

CONTOUR

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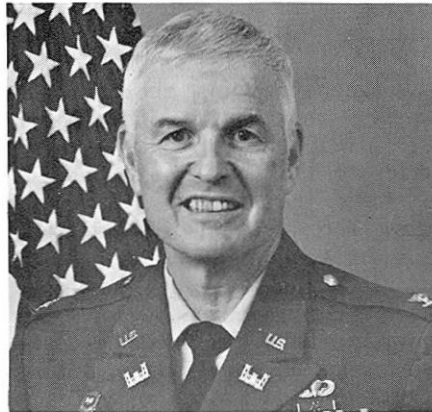
Defense Mapping School, Fort Belvoir, Virginia

January 1990

From the Schoolhouse January 1990

by COL Daniel R. Clark, USA
Director, DMS

What an exciting year we've had! Oil spills, earthquakes and borders opening up throughout eastern Europe. The pace of change and the magnitude of concern about a wide range of environmental and social problems continue to grow as we move into the decade of the 90's. As we launch this New Year, we, the staff and faculty, at the Defense Mapping School extend our sincere best wishes to all of our colleagues throughout the Defense Mapping Agency for a year that is personally and professionally rewarding in every respect. To put some substance behind those thoughts, our team at DMS has some New Year's presents to offer to the members of the DMA workforce. On the same day I wrote this article, I signed a letter transmitting the revised version of the Defense Mapping Agency Initial Orientation Program (DIOP) to DMA's Eastern and Midwestern Training Centers. The DIOP is one of four new courses for which development was completed last month and which were delivered in time for presentation to personnel at all DMA Components coincident with the start of this New Year. The other three are: the DMA MC&G Orientation Program (DMOP), the Combat Support Role Course (CSRC) and the Secretarial-Administrative Course. I want to devote the remainder of this article to a brief description of each course, with an explanation of its



Colonel Daniel R. Clark

purpose, in order to publicize its availability and generate interest in attendance.

The Defense Mapping Agency Initial Orientation Program is a two-day course consisting of 15 lessons. It is designed to provide every new DMA employee with information about the Agency, especially about the personnel and administrative support structure which provides guidance, assistance, and information to employees throughout their careers with the Agency. It answers fundamental questions about pay, leave, health benefits, performance evaluations, and other subjects of high individual interest. It's a must for every newcomer.

The Defense Mapping Agency MC&G Orientation Program (DMOP) is an eight-week technical course for newly employed cartographers. DMOP consists of 11 modules as follows: geodetic science; mapping, charting and geodesy mathematics; mapping and charting production processes; source management; computer enhanced cartography; marine information; stereophotogrammetric

compilation; computer concepts and data management; photo-interpretation; photogrammetric disciplines; and aeronautical information. Successful completion of this course will afford graduates a comprehensive understanding of the Defense Mapping Agency's map and chart production process and enable them to make a significant contribution to it.

The Combat Support Role Course is a four-hour presentation which graphically portrays the essential purpose and mission of our Agency. The course highlights DMA's key role in providing combat support to the maneuver units of the Unified and Specified Commands. During the course, our people will learn about DMA's primary customers, the vital missions they execute, and the critical role we all play in supporting those missions. CSRC was developed for presentation to every member of the DMA team. After initial delivery to 100 percent of the present workforce, it is envi-

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The Direct Line

Challenge of the '90s

We are entering what could be one of the most important decades in the history of mapping and charting. Certainly, the '90s rank among the most significant time periods in the annals of the Defense Mapping Agency.

From the technological view, this next decade will culminate years of research and development activity as a revolutionary digital production system comes on line within DMA. That change will have major impact upon the human resources of DMA as new skills are learned; as new organizational structures are created; as new procedures are implemented; and as new equipment replaces old.

No organization, in the private or public sector, has accomplished a technological transition of the magnitude that DPS reaches without experiencing difficulties. All of us must recognize that challenges will be forthcoming as DPS becomes fully operational. Meeting

and successfully overcoming those challenges will require patience, understanding, cooperation, and productive effort from each of us.

Historically, DMA and its predecessor organizations have met technological change in a professional manner, striving always to be at the forefront of the mapping, charting and geodetic community in knowledge and application. As a community, we have seen mapping requirements expand from those needed for early mapping of the United States to those of a global scale to meet the demands of world wars. The air and missile ages caused technological changes to our production lines and most recently the semi-conductor and computer have provided new requirements and new challenges.

From the early days of military mapping to the present, DMA, by all of its organizational names, decade after decade, has met the nation's needs with timely and tailored products and services. The



Maj Gen Robert F. Durkin

decade of the '90s will find DMA no less responsive to changing requirements.

We have today, as we did in yesteryear, a work force interested in betterment; dedicated to the important mission before them; and proud to be a part of the foremost mapping organization in the world.

Ultimately, it is you, the men and women of DMA, who will determine our success in the '90s.

Suggestion Program at DMA a Success

The DMA Suggestion Program resulted in savings to the government totaling \$487,101 in FY 89, with an average savings of \$3,455 per adopted suggestion. Cash awards to employees making suggestions totaled \$38,133, with an average award payment of \$270 and a benefit/award ratio of nearly 13.1. When compared to suggestion programs of other Federal agencies approximately our size, DMA finished first in seven out of 10 categories, including first-year savings.

A suggestion by Don R. Meier, a cartographer at the Aerospace Center, resulted in savings of \$221,600. He developed the Local Space Rectangular (LSR) Collection System, which reduces or eliminates "Scan Noise" artifacts on DMA digital data.

All DMA civilian employees and military members are eligible to make suggestions to reduce costs and increase efficiency in operations of the Agency. Suggesters can be rewarded with cash awards equal to approximately 10 percent of the amount saved from adopted suggestions.

The need to reduce costs and increase productivity in FY 90 is greater than ever and the suggestion program is an important vehicle which can help achieve our financial and production goals.

Employees are encouraged to submit their ideas through the DMA Suggestion Program.

Worth Repeating

"There is nothing so futile as having the right ideas and getting no attention."

—J.K. Galbraith,
economist

DMA Support to Bicentennial of United States Constitution Recognized

The Defense Mapping Agency's continued support to the DoD Commemoration of the United States Constitution was recognized recently when DMA Director, Major General Robert F. Durkin, received a Bicentennial Recognition Certificate for 1989.

In a letter accompanying the certificate, retired Army Lieutenant General Robert Arter, Special Consultant to the Secretary of the Army for the Bicentennial of the United States Constitution, commended DMA for its dedicated commitment to honoring the United States Constitution, "The men and women of DMA can take special pride and satisfaction in knowing they continue in the great heritage of defending the principles of this unique document of freedom," he stated.

Geographic Sciences Prepares for a New Decade

by MAJ A. G. Thompson

Continued personnel rotations, organizational changes, equipment additions, facility upgrades, updated proponency requirements, and increasing MTT demands guaranteed the robust 1989 schedule which was projected in the last annual January Contour article. While budget constraints and political changes may modify the Department of Geographic Sciences' (GS) efforts, 1990 is likely to surpass last year's activities.

Personnel

Rotations, new additions, and retirements have changed the face of the Department once again. CWO4 Borgeson's end-of-tour has seen Capt Reed (formerly of MT) become Chief, Geodetic Survey Division (GSS). New 81Q MOS Terrain Analyst task lists sparked the move of CW4 Besch to Chief, Terrain Evaluation Division, in order to free CW3 Huth along with CW3 Weir and their 81Q team to begin massive overhaul of the basic and advanced curriculums. The move of the Inter American Geodetic Survey (IAGS) School from Panama to DMS, under the direction of Mr. Dennis Dodson, has added a new Division to GS. The IAGS group has added a new dimension of capability and expertise to the formidable mix of Army, Air Force, Marine, and civilian instructors.

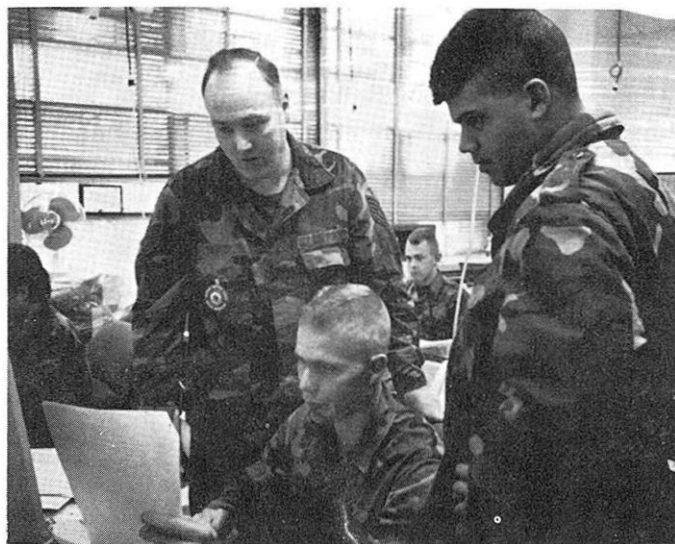
After decades of service, GS Department Secretary Beverly Eppolito moved on to well-earned retirement and was replaced by Gloria Tomita. The 17 new people who have joined GS this past year are part of the growth of the Department gearing to meet the demands of 1990.

Facilities

The rehabilitation of Wheeler Hall continued into 1989 with new tile and carpeting throughout the building. The new windows to be installed beginning this month will cap off the new look. Self-help projects in GS have helped to use our available space more efficiently. Through the efforts of Geodetic Survey Division instructors, GS has a new security wall and survey equipment issue window. Instructors have also constructed auxiliary shelving in many "Bat cave" office areas to better use available space.

Terrain Evaluation Division (GST)

GST carried out the monumental task of the US Army train-up of 81Q MOS Terrain Analysts which had doubled the Basic Terrain Analysis Course (BTAC) student load. Through the operation of a phased instruction system, GST not only met the



TSgt James E. Lobdell instructs BGS students in the computer lab.

resident training requirement but carried out 81Q long-term reclassification in BTAC MTT instruction for reserve components in Dothan, AL; Corpus Christi, TX; and Long Beach, CA. Additionally, GST provided BTAC MTT instruction to USMC topographic units at Camp Lejeune, NC, and Camp Pendleton, CA.

Also accomplished in 1989 was the reclassification training of seven U.S. Army Warrant Officers through the Warrant Officer Terrain Analysis Certification Course (WOTAC2). These newly made 215D Terrain Analyst Warrants immediately rotated to field units in CONUS, Europe, and Hawaii to meld with the influx of new 81Q Terrain Analysts. Concurrently, GST was able to support a 29th ID divisional field exercise which provided excellent training for the WOTAC2 class and the 29th ID command elements.

GST continuously revised the Advanced Terrain Analysis Course (ATAC) to meet field needs for automated data analysis and multi-spectral imagery training. Internally to DMA, GST completed training packages for a new DMA Terrain Analysis Course to be fielded to DMA/AC, DMA/HTC, and DMA/HTC-LVO production centers. The Cartography Branch of GST has begun to stabilize after a year of reclassification turmoil in the 81C cartographer MOS and is looking to major curriculum revisions based on automation and the upcoming Task/Site Selection Board.

The GST challenge for 1990 is to convert the result of the 81Q Site/Task Selection Board into completely updated BTAC and ATAC curriculums.

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Office of Plans, Programs and Operations 1989

Highlights and Accomplishments

The Office of Plans, Programs, and Operations (PP) personnel continued to be active in a wide variety of responsibilities during 1989 due to their involvement in visual graphics support, financial resources, and operations. The chief is Lt Col Williams; administrative support is provided by the secretary, Mrs. Becerra, and the clerk-typist, Ms. Stovall, the newest member of the PP family.

The DMS Education Advisor, William Crisp, joined PP in July. He is responsible for the professional development of the DMS faculty and for ensuring DMS maintains its accreditation by the Southern Association of Colleges and Schools (SACS) and the American Council on Education. SACS inspects DMS every five years, with its next visit scheduled for March 5-8, 1990. Therefore, Mr. Crisp devoted much of his effort to orchestrating DMS completion of an exhaustive Self-Study Report consisting of 12 standards addressing all aspects of DMS planning and operations. (See DMS Accreditation Visit article on page 5).

The Visual Information Division (PPV) is headed by Nicholas Mosura. PPV team members are Jeanne Elmore, Mieko (Annie) Wakimoto, and Paula Croisetiere. PPV surged to provide support to seven new DMS courses, creating 2,375 new slide masters and approximately 17,000 duplicate slides. PPV produced a record number of graphic products --27,000 in fiscal year (FY) 1989 compared to 13,000 in FY 1988. A major factor in this increase was the use of advanced computer-graphics techniques to automate many previously manual tasks. Another 1989 PPV highlight was the creation of a graphics database with a numbering system that keys each existing graphic to an existing DMS course. By using this data base, PPV customers have a handy reference guide to existing graphics, preventing costly

and unnecessary remakes.

The Resource Management Division (PPM) is headed by Dolores Balkenbush. Loyola Krueger and Helga Yovorsky specialize in budget and management analysis assignments, respectively. PPM's responsibilities increased in 1989 in the areas of planning, organizing, directing, and coordinating a wide range of staff services including financial management, programming, budgeting, manpower, organization, and management analysis. PPM achieved several "firsts" by completing all billings for FY 1989 foreign student training reimbursements prior to the end of FY 1989, resulting in over \$63,000 in reimbursements for DMS use. PPM also researched and completed a backlog of foreign student reimburseables from FY 1984 to FY 1988. In addition, PPM initiated a management study of utilities and custodial services provided by Fort Myer and Fort Belvoir, identifying an additional savings to DMS of almost \$57,000 in overcharges. PPM also coordinated and provided training for the submission of FY 1989 Program Risk Assessments. This was a first-time requirement for over 50 assessments and resulted in an assignment of low vulnerability for the School.

The Operations Division is headed by Capt Henry Schneider. Lynn Keleher and SGM Carlos Sellers the Registrar and Operations NCO, respectively, are responsible for many aspects of day-to-day DMS operations, such as student training requirements and student support. The MC&G Training Specialist, James Harnden, manages the contents of course documentation and edits DMS publications, training materials, and catalogs. The fifth PPO member, BUC Thomas Kidney, concentrates on safety and facility issues. With the relocation of the Engineer School from Fort Belvoir to Fort Leonard Wood, PPO prepared the Memorandum of Agreement transfer ring all DMS Army permanent party personnel from the 554th Engr Bn to the 610th Ord Bn. Also, with assistance from PPM, PPO developed improved proce-



Julie Stovall is the newest member of the PP staff.

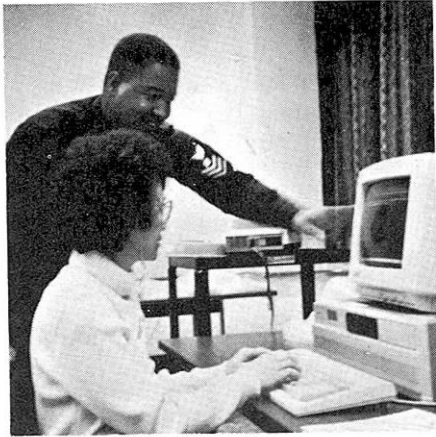
party personnel from the 554th Engr Bn to the 610th Ord Bn. Also, with assistance from PPM, PPO developed improved procedures for funding supplies used by Army and non-Army U.S. military students. With the move of the Inter/American Geodetic Survey (IAGS) Cartography School to DMS, PPO took the lead in developing the process to validate Latin American student requirements. PPO also prepared and published a catalog of IAGS courses and began producing a catalog of available DMA co-producer training. Finally, PPO continued to press ahead with planning for the rehabilitation and backfill of Buildings 214 and 215.

In short, 1989 was a busy but rewarding year for PP.

Non-Competitive Reassignments Approved by DMA Director

DMA Director Major General Robert F. Durkin, USAF, has approved the non-competitive reassignments of four GM-15's within the Aerospace Center.

Those reassigned were: Jimmy Boyd to AC (PPG), Patrick Satterfield to AC (SD), Roger Robinson to AC (TM) and David Alspaugh to AC (PS).



Instructor DPI Calvin Lloyd explains an Enable function to GS secretary Gloria Tomita.

Reach Out and 'Teach' Someone

**Management and Technology
1989 in Review
by LTC Louis R. Desanzo**

Once again in 1989, Management and Technology's (MT) instructors served as DMA ambassadors to the far reaches of the globe. Whether teaching at DMS or providing mobile training to war-fighting commands, we not only addressed critical subjects but also acted as a sounding board for customer concerns. Progress was evident in all aspects of the Department.

Business at the "schoolhouse" was brisk. Senior Executive Orientations (SEO) for Rear Admiral Richardson and Brigadier General Smith punctuated the year. The MC&G Staff Officer Course saw a steady flow of both command representatives and DMA personnel. Our Multispectral Imagery Course (MISC) remained in constant demand as we added an ERDAS capability and expanded the course to two weeks. The first Geographic Information Systems Course (GISC) was offered to a packed audience, and predictions are that GISC will be as popular as MSIC. Our Analytical Photogrammetric Positioning System (APPS) course transitioned to the new laptop computer upgrade by midsummer,

and students now get emphasis on the upgrade with only familiarization on the old system.

Behind the scenes at the School, a lot was going on. A critical event took place in April when MT's Component Training Division transitioned to full department status. In the summer, we sponsored two cadets each from the Military Academy and the Air Force Academy and two midshipmen from the Naval Academy as they completed projects directed by the Systems Center. Our Tactical Terrain Data Workstation was up and running and we provided a seemingly endless series of demonstrations, including participation in the DMA Systems Center Symposium in May. In response to a Headquarters DMA tasking, we developed the Combat Support Role Course which over the next two years will orient "every" DMA employee to the missions and capabilities of the commands supported by our Agency. An especially satisfying accomplishment was the production of an actual DMA catalogued product, the Coordinates Selection Guide. MT worked closely with DIA in producing this decision-making aid which is designed to help individuals to better utilize available MC&G products.

The demand for Mobile Training Teams continued unabated in 1989, and MT responded vigorously. The MC&G Impact on Combat Operations (MICO) course proved itself to be extremely valuable to the operational community. Our teams taught MICO in CONUS at DIA, Fort Bragg, Hurlburt Field and Norfolk. We conducted an extensive MTT to Europe where we taught three MICOs and the Staff Officer Course. (This trip was a DMS first, because for the first time we taught a course solely to a NATO audience. The results were so positive that we expect the mission to continue.) Finally, we swung through the Pacific with stops in Hawaii, Japan and Korea. At each location we taught MICO and provided APPS upgrade training. Other MTTs took the Multispectral Imagery Course to the DMA Aerospace Center (DMAAC)

and Fort Devens, and the Staff Officer Course to the Naval Oceanographic Office and DMAAC, and specially tailored digital data instruction to Wright-Patterson AFB.

As we move into 1990, MT instructors are heavily involved in developing and staffing the DMA Warrior Support Center (WSC). The WSC will be DMA's showcase where new and emerging technologies will be displayed. DMS instructors will be the briefers and operators of the advanced systems displayed there.

The WSC is a priority mission that we expect to maximize with usage by several of our courses.

The outlook for 1990 is bright. Continued high demand for our courses sends the clear signal that we are fulfilling our roles as ambassadors for DMA and contributing to the overall success of the Agency. We look forward to the challenges and an even better year in 1990.

DMS Accreditation Visit Scheduled

by William Crisp

The Defense Mapping School has been continuously accredited by the Southern Association of Colleges and Schools (SACS) since 1975. In December, DMS completed a Self-Study in preparation for a SACS team visit in March of 1990. The staff, faculty, and students will all reap benefits from this effort due to a resulting improvement in a number of programs and an initial accrediting of newer programs. This is but one of the benefits of the accreditation process.

Accreditation is defined as the recognition accorded to an institution which meets standards, policies, and procedures adopted by the accrediting organization. The accrediting organization for the Defense Mapping School is SACS, which is one of several regional accrediting organizations in the United States recognizing colleges, universities, and occupa-

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Graphic Arts has Year of Challenge

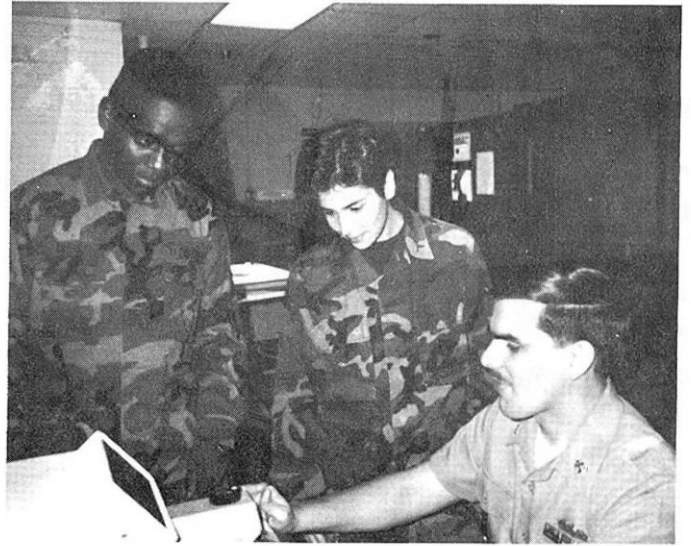
1989 has been "The Year of Challenge" in the Department of Graphic Arts. The department is still flexing its muscles under the new cloak of civilian management and supervision.

We said a fond farewell to two DMS "Charter Members" from the Photolithography Division. The first to depart the hallowed corridors of Bagley Hall was Albert Marvel. He retired in January after more than 43 years of government service. He was immediately missed by anyone entering Building 214, as the quiet was deafening. John Jacobs was the next long-time employee to depart. It was July before "Jake" finally made up his mind to say good-bye. After more than 41 years of federal employment, it's been hard for Jake to cut the ties that have bound him to DMS for so long. Additionally, we had three military retirements from the department: Master Sergeant James Cain, who was last reported to be holed up somewhere in North Carolina; James "Mel" Cowan, who is employed locally by Fairfax County; and Gunnery Sergeant Paul Wavra, who departed on terminal leave the end of November to retire in February 1990.

Other departures included TSgt Franz Brutscher, LIC Bob Carr, WO1 Mitchell Glover, SFC Mike Johnston, and MSgt Dave Okerblom.

The good news is that we gained a total of 17 people throughout the year. Even though we lost a considerable number of personnel, the department as a whole has remained at 100 percent or higher throughout the year. New civilian faces are Debbie Vaughn, Ron Bigger, Don Roberts, Bill Polk, and Enrique Pastor. New Army members are MSG Jim Mayer, SFC Kenneth Harvey, SFC Dolan Garrison, SSG James Murphy, SSG Preston Bayne, SSG John Getshall, SSG Val DeBerry, and SSG Rickey Lang. The Marines really boosted their 1500 representation by as-

Seated at the Macbeth TR927 Densitometer is Instructor LIC (SW) W. L. Mayden, as PV2 A. Crosby (I) and PFC S.N. Gemignani look on.



signing GySgt Jim Rawllins, SSgt George Hamblen, and SSgt Clinton Newbold to the School.

The Navy and Air Force were not to be outdone. L11 "Mac" McWilliams was the Navy addition while TSgt Peggy Canteley was the sole Air Force contribution to the department's strength increase. This was quite a busy year for the department as well as both the Photolithography and Reproduction Divisions. Accumulative numbers for both divisions reveal that a total of 520 students were trained in residence throughout 1989. Not too bad considering the fact that two of the Reproduction Equipment Repair Courses were canceled to permit the replacement of an entire block of instruction. Burning the "Midnight Oil" has become the norm for Graphic Arts. We're still the only department who has to work two shifts year-round to meet our student training requirements. 1990 might even dictate a further expansion to three shifts.

The biggest challenge of the year came after the direction for Graphic Arts to absorb DMS's share of the Bush Budget Cuts. This caused some initial moments of anxiety but was soon taken in stride by all concerned.

As is the norm, the Department of Graphic Arts did not pull many MTTs. The one Technical Training Assistance visit was accomplished in Jacksonville, Florida and Norfolk, Virginia aboard the

USNS Chauvenet. We provided a technical inspection and repair/operator training to the lithographer assigned to Oceanographic Unit Four.

The department hosted a Navy Lithographer conference in May. This resulted in a revision of the Navy task list, which will, in turn, result in a revised course of instruction being taught. The most significant change in the curriculum will be the replacement of the "antiquated" CompSet 510s with PC-based desktop publishing systems with laser printers.

Equipment, the backbone of the department, was little changed during 1989. The Reproduction Division added two A.B. Dick 9880 offset presses. They also received a Challenge guillotine paper cutter, compliments of the U.S. Army. Not to be outdone, the Photolithography Division negotiated with the U.S. Navy for them to buy the six desktop publishing systems needed for instruction in the Navy/Air Force Basic Lithographer Course. Expected any day are two Heidelberg two-color convertible perfecter offset presses, also compliments of the Army. Altogether, the department has or will receive equipment valued at approximately \$350,000. All of this at no expense to DMA.

If 1989 in the Department of Graphic Arts was "The Year of Challenge", 1990 promises to be a greater one.

Component Training in 1989

1989 saw the creation of the Department of Component Training (CT), and with it came the challenge to manage the almost constant change that has been the hallmark of the year. Nearly every program was affected in one way or another, and yet the Department successfully accomplished its mission.

Personnel

We lost two of our finest, and incidentally, two of the original members of the old Component Training Division under the Department of Management and Technology. John Haddick received a well-deserved promotion to Systems Center as the DMA liaison to TRANSCOM at Scott AFB in Illinois. Dan Wilson moved into a new career field and a new environment as an Employee Development Specialist for the Aerospace Center.

But we more than made up for their departure with the addition of four new professionals. Sue Kersey returned (she just couldn't stay away), and joined Alan Williams from GS, and Rebekah Wilfong from the Department of the Army in San Antonio, as training specialists. John Bassett and Barbara Windland headed this excellent, active team. Dana Norquist from the Hydrographic/ Topographic Center became our newest Physical Scientist. She joined her colleagues Mark Altman, Pat Donovan, and Karen Williams in their technical support to the Digital Production System (DPS) training development efforts.

Mission and Accomplishment

Our mission changed dramatically, with most of it very positive, although some not quite as we would have liked. Headquarters DMA turned over complete management responsibilities to CT for the Executive Seminar Center (ESC) and the Defense Management Education and Training (DMET) programs.

This occurred on the heels of our successful management of the Executive Leadership Program (ELP) for 1989. The end of 1989 will see the implementation of other significant CT programs and courses: the Faculty Development Program (FDP); the DMA Initial Orientation Program (DIOP); the DMA MC&G Orientation Program (DMOP); the Computer Security Course, and the Secretarial/Administrative Course. And, as in the past, our bread and butter has been the continuing success of the Instructor Training Course (ITC) and the Effective Briefing Techniques Course (EBTC).

In support of the DPS, CT has provided consistent and valuable technical guidance on training issues, especially in the Integration Planning Technical Exchange Meetings (IPTs) and segment Critical Design Review (CDR) forums. Our primary role is currently



Kelley Lillegard, back at the helm after the birth of her son, heads up the CT weekly staff meeting.

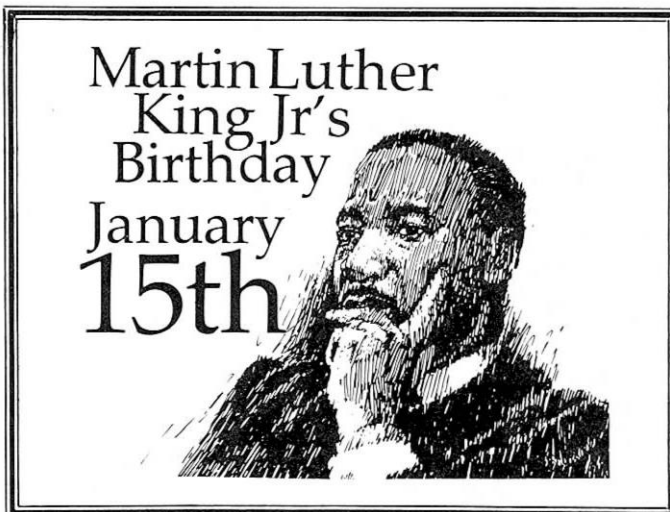
to support the Systems Center in the development of the three MARK 90 Preparatory Training Courses: Introduction To Automated Data Processing; Digital Image Enhancement Techniques; and MARK 90 Product and Extraction Specifications. Unfortunately, our responsibility to manage DPS training materials was rescinded.

The Future

On the academic side of the shop, we will increase the staff with two additional training specialists. Continued growth in training program management and course development is ahead for 1990.

The Modernization Division will continue its technical support to Systems Center for DPS training. The growth of that support will undoubtedly be a vital issue in the year ahead.

The challenge in 1990 for our returning chief (and new mother) Kelley Lillegard, will be of consequence not only for our personnel, but also for the role this Department will play in the School's future. This fine staff is well prepared for the invitation of new roles and responsibilities.





SFC Richard V. Corum handles Security/Travel for the School.

'89 an Active Year for Mission Support

The Office of Mission Support (MS) had another challenging and busy year in 1989. Personnel turnover was at a minimum. In the Logistics Division, (MSL) Jean Battles replaced Casey Graybill for the clerk typist position and Mark Lane filled the vacancy for the procurement clerk position. Jackie Darby filled the vacancy for the clerk typist position in MS. We are participating in the DMA Career Intern Program. Our first intern, Gerard Piller, came to MS in October and went to DMA Hydrographic/ Topographic in December. We will be training more interns throughout the new year. MS was successful again this year with 100 percent participation in the Combined Federal Campaign. Credit goes to Jill Tompkins who did an outstanding job as our key person. Following are more MS achievements in 1989:

Mission Support Personnel Division

- Timekeepers got into the swing of "bubbling" the proper

codes and hours onto the new Time and Attendance Sheets. Each mark of the pencil seemed to initiate another adventure into the confusing world of the Air Force Payroll System, but by early in the year, the bubbles and codes had sunk into the minds of all timekeepers and we sailed through the rest of the year with no problems and fortunately no missing pay. Certain categories of DMS civilian employees were selected to sign the 30-day notice letter for random drug testing.

- The high turnover rate in civilian positions was due to retirements, reassignments and resignations. However, this was compensated for by a high rate of civilian increases, with the addition of many individuals to Component Training, the Department of Geographic Sciences and the Department of Graphic Arts.

- Army personnel was released from attachment to the Staff and Faculty Company, 554th Engineer Bn and attached to D Co, 610th Ordnance Bn, Fort Belvoir, VA.

Mission Support Administrative/ Security Division

- Representatives from the DMA Security Office conducted a Security Inspection of DMS on 6 February 1989. No significant deficiencies were noted but some minor changes were recommended.

- DMS personnel attended the Annual Security Briefing conducted for Fort Belvoir personnel by agents of the 902nd MI Group in June.

- Mandatory use of new Standard Forms 85 and 86 began in April and October, respectively. These are the background information forms required by OPM for national agency checks.

- The DMA IG inspection in June had no security deficiencies noted.

- Paulette Kommes attended the Records Managers Convention at the Rivergate Convention Center in New Orleans, Louisiana.

- A telecopier was installed and is operating smoothly.

- Three Zenith 248 computers were received.

- Federal Express was established for overnight delivery of financial documents to the Finance and Accounting Office at the Aerospace Center.

- Paulette Kommes attended the Mail Managers Workshop at the Naval Observatory.

Logistics Division

- A Bench stock program was implemented to enhance operations for all DMS class list stocks. This program decreased one-third of existing class list stock maintained at DMS.

- A GSA account was established so that administrative supplies can be ordered and received within 24 hours.

- An account was set up with GSA for rehab furniture, which is purchased at a fraction of the cost of new furniture.

- New shelving is in place and has enhanced warehouse operations.

- The end of the fiscal year closeout was a success. Fallout funds were spent on much-needed support equipment and supplies.

- A new 1989 Chevrolet pickup truck was obtained and the vehicle that was turned in was reinstated into the fleet because of its outstanding condition.

- MSL received and stored 196 crates of IAGS equipment that was transferred from Panama.

1990 Challenges

- An automated security system, MAC II, in place and operational early in the year.

- A one-stop inprocessing division has been instituted by DMA CPSO at the Naval Observatory. This will lighten the workload of the Personnel Assistant and Security NCO.

- Relocation of the Office of Mission Support and the Logistics Division to Building 215.

Contributing to this article were: Jill Tompkins, Paulette Kommes, SFC Patricia Rivera, SFC Richard Corum, MSgt Richard Johnson.



A-Partying We Went!



GS from pg 3

Geodetic Survey Division

GSS started off the year by fielding the new Survey Instrument Maintenance Course (SIM) and running a prototype Hydrographic Survey Course (HSC) on-site with the Naval Oceanographic Office at Gulfport, MS. Along with GST, GSS greatly expanded its MTT instruction with a BGS Course at Camp Pendleton, CA for the USMC; a BGS and Modified AGS at Cheyenne, WY, for the Geodetic Survey Group; and specialized MX1502 Satellite Receiver training in Dothan, AL, for the 1203 Eng Bn (ANLG).

In a landmark event, GSS coordinated and hosted the 1988 82D Surveyor MOS Task/Site Selection Board at DMS, thereby setting the stage for major revisions to BGS, AGS, and the creation of a new Automated Intermediate Survey Course. Resultant new training will be a major factor in allowing the services to make maximum use of reduced surveyor assets. The GSS computer lab, brought on line in 1988, has matured to provide the base for new training requirements and support expanded automated training needs of GST as well.

GSS instructors were able to receive satellite-based survey training on both the NAVSTAR and Global Positioning Systems through seminars and assistance from DMA Systems Center. Classroom work was followed by a survey training project in which GSS instructors set Inertial Navigation Points at Andrews AFB using MX1502 Receiver equipment. This training had the added advantage of supporting an ongoing Geodetic Survey Group Project.

GSS also supervised a team of surveyors attached to DEH and composed of soldiers remaining at Fort Belvoir after the 30th Eng Bn relocated. The team used ongoing work for the Tompkins Basin survey to create an automated survey package for classroom use and is establishing a new survey training net for the school. The

team also supported the installation of a BNCOC compass course at Fort Leonard Wood, MO, which allowed GSS to develop field training material for total station survey equipment.

Internal support was also provided to DMA/HTC by way of the development of a Hydrographic Survey Course tailored to the needs of its Scientific Data and Mapping/Charting Departments. This course will provide cartographers training in transitioning field data to finished charts.

Inter American Geodetic Survey Division (GSI)

1989 brought GSI into being with five personnel relocated to DMS from Panama. GSI closed on the school with 140,00 pounds of equipment and course material. After establishing its curriculum to be offered and advertising to fill vacant positions, GSI began the difficult task of attracting students to its new location in order to return to full operation. Meanwhile, activities are in full swing to get the Division moved into Wheeler Hall in an operational configuration. Visitors to GSI should plan to wear work clothes and carry gloves. The GSI crew has quickly become a part of the GS Department and is eager to provide training support to other divisions and production centers and to bring the Latin American program back on-line.

The 1990 challenge for GSI is clearly to re-establish their renowned cartographic school and expand co-production support.

1989 -- Another Dynamic Year

The ground work which was laid in 1989 for course update and new course development has set the stage for an exciting new year in GS. In spite of budget outfall, support to DoD will continue through the professional efforts of the people in GSI, GSS, and GST. The Geographic Sciences Department joins together to wish all of the Topographic community a "Happy New Year" and "Don't Worry -- BE FLEXIBLE!"



SCHOOL from pg 1

sioned that the Combat Support Role Course will become a module of DIOP for routine presentation to every newcomer as part of his or her initial orientation.

Although we are a technically oriented Agency, those in the know fully appreciate and often say out loud that we could not succeed without the great support of our secretaries and administrative assistants. The three-day Secretarial-Administrative Course was developed to provide those important members of the DMA team with the knowledge and skills required to prepare correspondence and complete administrative tasks in accordance with current Defense Mapping Agency procedures.

I want to gratefully and publicly acknowledge the vital course development input and assistance received from a host of individuals working in other Defense Mapping Agency Components. DMS personnel took the lead in the development of those four courses and we at the School are very proud of the results. None of those courses were, however, developed in a vacuum. None of them could possibly be as good as they are without the valuable input we got from subject matter experts throughout the Agency. Because we benefitted from those practical man/woman on-the-job contributions, these courses are very much in touch with reality. They're practical, down-to earth, and well worth attending. What's more, they're standard, which means that a person who completes a course in St. Louis essentially experiences the same training as a person who completes the same course in the Washington area. That's a big plus which points the way to the future by promoting the "One DMA" concept.

Director's Call



DMS AWARDS

DMS Civilian of the Year

Nicholas Mosura
Office of Plans, Programs
and Operations

DMS Officer of the Year

Captain William P. Smith
Department of Management
and Technology

DMS NCO of the Year

SFC Richard E. Rivera
Department of Graphic Arts

DMS Suggestion of the Year

SFC James L. Hollingsworth
Department of Graphic Arts

DMS Department with Highest Rate of Participation in the DMS Suggestion Program

Department of
Geographic Sciences

AWARDS

Military

CDR Daniel F. Duddy (USN)
Office of the Director
Meritorious Service Medal

CERTIFICATES

Outstanding Performance Certificate

Paulette Kommes
Office of Mission Support

Loyola Krueger
Office of Plans, Programs
and Operations

Mieko Wakimoto
Office of Plans, Programs
and Operations

Senior Instructor Certificate

LCDR Robert M. Bassett (USN)
Department of
Management and Technology

Capt James D. Reed (USAF)
Department of
Geographic Sciences

GySgt Henry Garcia (USMC)
Department of Graphic Arts

SFC Stuart M. Lobel (USA)
Department of Graphic Arts

LIC Warner L. Mayden (USN)
Department of Graphic Arts

LIC Leo Scully (USN)
Department of Graphic Arts

LIC Robert E. Sowards (USN)
Department of Graphic Arts

SSgt Brian K. Henderson (USMC)
Dept. of Geographic Sciences

CIVILIAN FEDERAL SERVICE PINS

15 Years Service

Karen Williams
Department of
Component Training

10 Years Service

Jeffery Hamn
Office of Mission Support

William McCray
Department of Graphic Arts

William Sutton
Department of Graphic Arts

Bobby Rawlings
Department of
Geographic Sciences

Mark Altman
Department of
Component Training

NEW ARRIVALS

Military

MAJ Lloyd D. Carmack (USA)
Department of
Management and Technology

TSgt Peggy A. Cantey (USAF)
Department of Graphic Arts

TSgt Foster Wright Jr.
(USAF)
Department of Graphic Arts

Civilian

Julie Stovall
Office of Plans, Programs
and Operations

Noemi Benitez
Department of
Geographic Sciences

Beatrice E. Vicks
Office of Mission Support

Nathaniel Floyd
Office of Mission Support

DEPARTURES

Military

CWO4 Steve D. Borgeson
(USMC)
Department of
Geographic Sciences

MSG Lyle K. Olineru (USA)
Department of
Geographic Sciences

SSG Marvin E. Frith (USA)
Department of
Geographic Sciences

Civilian

Peter Dunbar
Department of Graphic Arts

SACS from page 5

tional educational institutions for their high standards. Membership in these regional accrediting organizations is voluntary and is not granted unless certain standards are met. The importance of being a member in good standing is one of prestige for the School, a continuing program of improvement with the help of external evaluation, and the ability of course graduates to gain credit for their course work in degree programs at colleges and universities throughout the United States.

Standards examine every aspect of a school's operation from the school's stated purpose, through its administrative procedures, its

educational programs and its budget, to its public affairs program. This Self-Study is extremely detailed and time-consuming and, when completed, is forwarded to SACS. Following the completion of the Self-Study, a SACS visiting team conducts interviews and evaluates the educational programs to determine if the school is in satisfactory compliance with Commission on Education Institutions (COEI) standards.

If COEI determines the school is in satisfactory compliance with COEI policies, standards, and procedures, the school is accredited for a period of one year. To maintain this accreditation, each Annual Report must show that the school is continuing to comply with COEI requirements.

DMA Director Announces Key GM-15 Selections

DMA Director Major General Robert F. Durkin has made the following key selections for GM-15 assignments:

Mr. William R. Croisetiere, physical scientist, from DMARC (PPI) to HQ DMA (PPA).

Mr. Larry L. Putman, physical scientist, from DMAHTC (PPM) to HQ DMA (PPE).

Mr. John R. Reiter, physical scientist, from DMAHTC (SDG) to HQ DMA (ADD/P&D), as special assistant for DPS interface.

Mr. Melvin L. Wagner, physical scientist, from DMASC (SDG) to DMASC (SGC).

Mr. Keith E. Littlefield, physical scientist, DMASC (MGG), promoted within the same division.

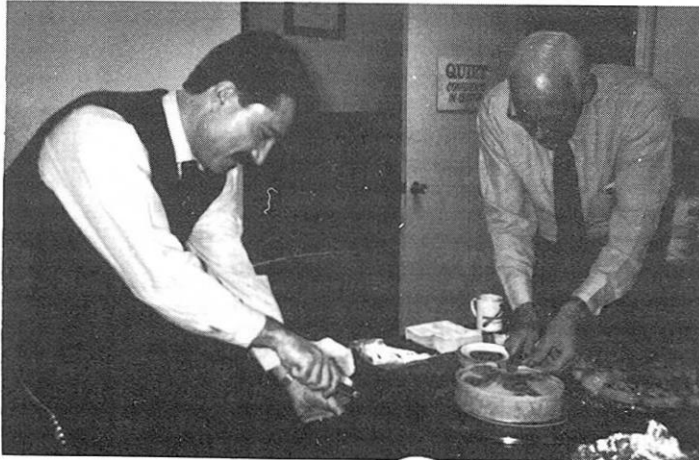
Mr. Billy Franklin (Frank) Eaton, communications management specialist, DMATSC (EID), promoted within the same division.

In addition to the above, General Durkin reassigned the following two employees, noncompetitively, to supervisory communications management specialist positions within their divisions:

Mr. Curtis W. Wunderly, DMATSC (OMD).

Mr. Charles E. Renner, DMATSC (SRD).

Nick Mosura (l) and Bill Revell celebrate their December birthdays.



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CONTOUR

Graphic Arts Crew Assists USNS CHAUVENET

by GySgt James A. Rawllins

A technical assistance visit was made to the USNS CHAUVENET by Sergeant First Class Richard E. Rivera, David E. Miller, and me. The purpose of the trip was to provide technical assistance to the lithographer on board the ship as well as provide an inspection of the printing press for compliance with industry safety standards.

It all began in July 1989, shortly after my arrival at the Defense Mapping School. SFC Rivera approached me and asked if I had ever operated or worked with a Harris LTN offset printing press. Due to my experience being limited to the equipment in the Marine Corps, I had to say "No." He replied "OK" and left it at that. A couple of weeks later, SFC Rivera handed me an operator's manual for the Harris printing press with instructions to read and learn as much as possible because I would be accompanying him on a technical assistance visit to the USNS CHAUVENET in August or September. I immediately started studying the operator's manual and asking questions as to exactly what we would have to do. I inquired whether there would be a chance for me to actually learn the operation of this press by hands-on experience before the trip was made. Since there are no Harris 36 inch LTN printing presses in the area, the only experience I was to receive was from reading the manual. SFC Rivera informed me that the primary purpose of the trip was to refamiliarize or teach the lithographer on board to set up, operate, and perform preventive maintenance on the press. He also indicated that while teaching the lithographer there would certainly be time for me to get a little experience.

While preparing for the trip, time seemed to go by real fast; then August was upon us. The first phase to be completed was for Mr. Miller to go to Jacksonville, Florida to perform an on-site inspection of the press for safety compliance. During his inspection, he was only able to do minimal operation checks due to the condition of the press. Upon his return he prepared the necessary reports and called SFC Rivera and me to discuss problem areas he had found. In going over his report, there seemed to be no major technical problems for us to be concerned with. However, it would be necessary to do some maintenance on both the press and camera prior to commencing the training of the lithographer. Mr. Miller also found that there were no operator or parts manuals for the camera on board, so we had to acquire operator and parts manuals not only for our own use but to provide the USNS CHAUVENET upon our arrival.



GySgt Rawllins looks over a Harris press similar to that on the USNS CHAUVENET.

As time passed and it came closer to the departure date, Murphy's Law went into effect. SFC Rivera had to take emergency leave and Mr. Miller had other priority commitments.

Upon SFC Rivera's departure on leave, Mr. Miller called me over to discuss the situation. I advised him that I felt fully qualified to repair the camera since it was a great deal like those I was used to working on.

On the Wednesday prior to departure, Mr. Miller and I decided that I would go ahead and repair the camera and institute whatever training could be accomplished, and he or SFC Rivera would come at a later date to start the training on the press. On Sunday, I departed for the USNS CHAUVENET which was then at the Naval Amphibious Base, Little Creek, Virginia.

One of the things that I was looking forward to about making this trip was seeing how the Navy does its printing aboard ship. They do the

See CHAUVENET page 5

==== The Direct Line ====

DMA Combat Support Role Evident in Panama

A Team Effort!! That's the only way to describe the DMA actions during Operation Just Cause in Panama. All in DMA can be proud as the Agency demonstrated its importance to the combat forces.

From 19 to 30 December nearly a half million maps and charts were issued to U.S. military forces from DMA Combat Support Center (CSC) stateside locations or through the CSC Latin America Office. Employees at various locations in the Agency worked long hours, responded to middle-of-the-night calls, and met crisis demands to provide the right product, at the right time, in the right place.

During the Christmas weekend, personnel at the Combat Support Center and the Philadelphia Depot processed requirements and shipped products to make sure units such as the 7th Infantry Division at Fort Ord, California, the 18th Airborne Division at Fort Bragg, North Carolina, the 5th Infantry Division at Fort Polk, Louisiana and the 22nd Air Force at Travis AFB, California, all were receiving DMA products as they prepared for action.

Direct support to the U.S. Southern Command was provided 24 hours a day for nine straight days by the Latin America Office of

CSC. Combat units in Panama were able to pick up maps and charts in an over-the-counter operation. Units which flew in from CONUS were able to receive maps immediately upon arrival. As stocks diminished, the resupply effort from the stateside depots ensured the right products were there when needed.

While the Combat Support Center played the lead role, other DMA elements contributed to the team effort.

The Aerospace and Hydrographic/Topographic Centers provided printing for special products and for restocking, mensuration of geographic points for precise target coordinates, airfield data for accurate and safe navigation, and digital products for use by U.S. forces and Panamanians in the stabilization actions. The Telecommunications Services Center provided special communications assistance to speed the processes.

The Agency also revised the General Map of the Lands and Waters of the Panama Canal Treaty, commonly known as the Treaty Map, to provide our forces with an accurate portrayal of which areas of the Canal Zone were under U.S. jurisdiction.

Forces moving through Panama City looking for General Noriega supporters had monochrome copies of three sections of the large scale map of Panama City as well as



Maj Gen Robert F. Durkin

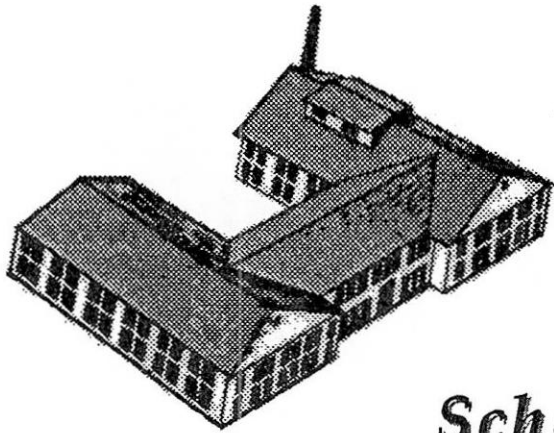
copies of the Panama City and Vicinity map. Distribution of these special reprints was made within 48 hours.

To print and distribute certain maps more quickly, the Latin America Office supervised the opening and restocking of the Instituto Geografico Nacional "Tommy Guardia" (Panamanian Map Institute). HTC and CSC rapidly shipped map paper, photographic film and plates to the Panamanian Map Institute for start-up operations.

Teamwork! That's what it took and that's what DMA personnel supplied. Congratulations to all on a job well done.



Graphic Arts Chief Dave Miller points out to Brigadier General Arvid E. West Jr., Commanding General of Fort Belvoir, products made by the various branches of service during their instruction in the Reproduction Division at DMS. BG West toured the School on January 22.



From the Schoolhouse

The top three DMS FY90 mission goals are:

1. Provide high quality MC&G instruction through resident and mobile training programs.
2. Successfully transition the IAGS teaching function.
3. Get all DMS courses reaccredited by the Southern Association of Colleges & Schools.

In this article, I want to focus attention on our third goal.

About three weeks from now, during the week of 5-8 March 1990, a team of educators from the Commission on Occupational Education Institutions of the Southern Association of Colleges & Schools will visit DMS. It's a visit that takes place only once every five years, and I consider it to be the single most important visit that we will host in 1990.

Since last October, a DMS team has been working under the leadership of Mr. Bill Crisp, our Education Advisor, to prepare for the SACS visit. Our team members include Mrs. Dolores Balkenbush, Mrs. Joyce Beck, Mr. Ches Cummins, Mr. Jim Harnden, MSgt Rich Johnson, Mrs. Lynn Keleher, Mr. Nick Mosura, Mr. Bill Revell, Capt Hank Schneider, and Lt Col Erwin Williams. Last month that team

completed and forwarded to SACS a comprehensive self-study report which describes the current status of every aspect of our operation. The self-study specifically addresses our organization and administration, long-range planning, educational programs, staffing, media services, financial resources, physical facilities, equipment and supplies, student personnel services, and community relations. The self-study report is a highly valuable baseline document, but more importantly it is a tool for improvement and a start point for future development.

During their extended visit, our professional colleagues from SACS will review our entire operation, our educational programs, and our documents on file. They will work to validate the description of our operations found in our self-study report. During their week at DMS, team members will visit all of our facilities and observe all departments, divisions, and branches. They will interview staff, faculty, and students. They will review procedures, policies, programs, and plans as they seek to obtain a comprehensive view of the Defense Mapping School. The team will be as interested in identifying our School's strengths as in ascertaining its weaknesses. Upon completion of their visit, the team will



Colonel Daniel R. Clark
Director
Defense Mapping School

prepare a report for the Commission on Occupational Education Institutions.

Accreditation is a mark of excellence well worth the time and effort we must expend to achieve it. Successful completion of the accrediting process will indicate that our services are sound, and that our School is meeting its broad responsibility to the public. Our School has been continuously accredited by the Southern Association of Colleges & Schools since 1975. Since we are a fully accredited institution, students who successfully graduate from Defense Mapping School courses are eligible for equivalent credit when they pursue work in the degree programs at private colleges and universities throughout the United States.

Let's be ready to warmly welcome the SACS team and to support them professionally during their stay. The team members will be coming in the role of helpful colleagues. I genuinely welcome this comprehensive external evaluation as an important contribution to our continuing program of excellence in MC&G education.

The CONTOUR is published monthly by and for the Defense Mapping School. Contents are not necessarily the official views of, or endorsed by, the U.S. Government, the Department of Defense or the Defense Mapping Agency. Editorial content is edited, prepared and provided by the Public Affairs Office of the Defense Mapping School.

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GySgt Jim Rawllins (I) goes up against "The Boss" in the rubber match of the double elimination DMS Annual Racquetball Tournament. The old Gunny was no match for the young and undefeated Colonel!

“Living History”

Who did the hunting when father was off with Captain Morgan helping General Washington fight the war for independence? Mom did!

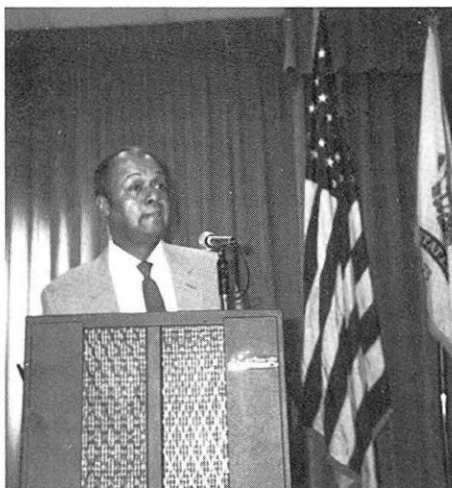
Recently, Pam and Mike (Capt) Mason presented a “Living History” demonstration to 87 students at Carl Sandsburg Intermediate School. They wore authentic period clothing to help emphasize their discussion on life in the Shenandoah Valley. Anything west of the Blue Ridge was frontier in those days! Pam spoke of the hardships of everyday life due to the unforgiving harsh and remote environment.

Mike talked about the clothing and equipment of the Virginia Rifleman (or militia) who responded to General Washington’s call. He compared the flintlock rifle and tomahawk to the musket and bayonet the militiaman might face in battle. Then everyone went out into the parking lot where Pam surprised them by loading and firing her flintlock.

Some of the students were ESL (English as a Second Language), and were learning about U.S. History for the first time. The students later wrote to Capt and Mrs. Mason, expressing appreciation for their demonstration.



**Pam Mason loads her flintlock.
(Which way did Mike go?)**



MAJ Robert Ewell Greene, USA (Ret.)

Major Robert Ewell Greene, USA (Retired), was guest speaker at the DMS Dr. Martin Luther King Jr. birthday observance, on January 10, 1990. Major Greene challenged the DMS audience to work toward a society where race and bigotry will no longer be the issue as we move toward the 21st century.

BLACK HISTORY MONTH

The Defense Mapping School is celebrating Black History Month during February and has planned a Black History program to be held on February 21, in Heitmann Auditorium, 1:30-2:30 p.m. Lieutenant General Andrew P. Chambers, USA (Retired), will be the guest speaker.

This year's theme is “The Father of Black History Carter G. Woodson: A Living Legacy.”

Black History Month is an opportunity to recognize the outstanding contributions of Black Americans to our country. They have served patriotically in peace and wartime to defend our nation and its constitution.



SGM Carlos Sellers (I) and SGM John Dodge hoist the Minuteman Flag in recognition of the fact that more than 50 percent of DMS personnel enrolled in the Payroll Savings Plan.

Gone But Not Forgotten

by MSG Herb Schmeling

Although I have only been here about a year, I already seem to have a tour's worth of memories. If I was asked to state one of my fondest memories of the past year, I would have to tell you about the "Gridiron Scholars."

From the classroom to the gridiron, the DMS Advanced Terrain Analysis Course Class 3-89 was a busy crew. Whether it was softball or football, the ATAC class made the ideal adjustment to combine academics with the intramural sports program. Throw in a regular diet of morning PT, Wednesday afternoon common skills training and early morning physical readiness testing for students assigned here for Advanced Individual Training, and you have a schedule that would exhaust most people. But the ATAC class members had the energy to take on even

more. Add in three members of the DMS staff, an Advanced Geodetic Survey course student, and a Survey Instrument Maintenance student, and you have a premier flag football team. The team dominated the Western Division of the American League on Fort Belvoir.

Although, the team graduated during the post playoffs, they provided the DMS flag football fan with the fun and excitement of supporting a winning effort. For themselves, they proved that team integrity in the classroom can be extended off duty and onto the football field. Whether they were playing the game or rooting for their team on the sidelines, the entire class seemed to be one entity. In the classroom or on the playing field, these ATAC classmates were there for each other, as peers, teammates, and as friends.

Though a new ATAC class now occupies the classroom, I will always remember ATAC Class 3-89.

----- CHAUVENET from page 1

same kind of work as the other services, but in a largely reduced space. When I arrived, I was thoroughly amazed at the size of the press and other equipment they had situated in such a small space and how the equipment had been modified for use while the ship was under way. But, whatever the differences, the things that are exactly the same are the people that work on them. Most are trained at the Defense Mapping School and they all receive the same training to prepare them for their jobs, whether aboard ship or in the field. Not only was the technical visit going to benefit the Navy, it was also going to be a training experience for me to see how they do their job and to be able to work on some new pieces of equipment.

I immediately went to work on the camera. The first thing was to disassemble it and make a detailed list of what needed to be replaced, fixed or adjusted. With the help of the personnel on board, I was able to get all the parts manufactured at base maintenance facilities. In just over two days I was able to trammel and calibrate the camera, which brought it to an operational condition. On the third day, Mr. Miller and SFC Rivera arrived. I briefed them on the status of the camera and what I observed about the press.

The following day started with identifying repairs and adjustments that needed to be made on the press prior to starting the train-

ing. I was to learn that this press had many of the same operational characteristics as the presses with which I was familiar, yet was different enough to give the lithographer and me a challenge. During the next four days, we covered the entire press, making repairs, adjustments, and in some places replacing parts that were worn-out or broken. The culmination of our effort was in finally producing a printed product. In conjunction with making repairs on the press, SFC Rivera and Mr. Miller conducted an extensive training program which was interrupted only by the many questions the lithographer and I asked. We both felt that we had received some very high quality, intensive training.

While this Technical Assistance Visit started as something routinely done by the Graphic Arts Department, it was a new experience for me. I would say that there were more exchanges of ideas and learning from each other during the visit than could have been done at the School, not only for the lithographer but for everyone. Learning how Navy does its job and applying that to how the School trains provided me with a great insight as well as an opposing view of what we all ultimately intend to do. To accomplish the mission is the end result, although the avenues of approach may be different. The bottom line is: accomplish mission with highest degree of professionalism possible. I believe this was accomplished on this visit and both the Navy and DMS benefited.

Cooperative Survey Held at Andrews AFB

by SMSgt Gerald A. Smith

During the first week of December, DMS/GS personnel worked in cooperation with Geodetic Survey Group (GSG) personnel to complete an Inertial Navigation System (INS) survey for the 113TFW, Air National Guard at Andrews AFB, MD. I coordinated the survey with Mike Healy (GSG project officer) to allow DMS instructors to maintain skill proficiency and expose the instructors to the observing and recording procedures used at GSG. Additional DMS personnel involved in the project were MSgt William Melen (USA), GySgt James Chism (USMC), TSgt Kevin Hartfield (USAF), TSgt James Lobdell (USAF), and SSgt Michael Kocheran (USMC).

The purpose of the survey was to establish the geodetic position and elevation of 15 aircraft parking points, and establish the geodetic position, elevation, and azimuth references for the INS test stand. There were some additional motives for DMS doing the survey. The experience would better prepare instructors to meet GSG's unique training needs, and it would aid Survey Division personnel in developing a lesson plan in airfield surveys. A side bonus is that it helped DMA meet mission requirements and, in the process, DMS saved DMA over \$9,000 in TDY funds.

The survey consisted of establishing a doppler survey point for a more accurate position transformation. The rest of the survey was completed by conventional survey means. The survey team monumented the aircraft parking points by drilling holes and epoxying plugs in the concrete. The points in the aircraft hangars and the INS test stand were monumented with DMA disks. Two aircraft parking points were selected as azimuth references for the test stand and astronomic azimuths were observed over these lines. The team used a Wild T-2 theodolite to measure all the horizontal directions, an Autoranger and 30-meter tape to measure all distances, and a Zeiss Ni2 level to measure all the differences in elevation.

The data collected was excellent and was obtained under some very severe winter weather conditions. Despite the extreme cold, high winds, and snow, the team members performed like the true professionals they are.

Tax Law Changes

Highlights of recent changes:

- o Personal and dependency exemption has increased to \$2,000 for 1989, \$50 more than allowed for 1988. (Remember: If you are entitled to claim another taxpayer as a dependent, that person cannot claim a personal exemption, too.)

- o Only 20 percent of personal interest expenses on loans, bank credit cards and the like can be deducted, a drop from 40 percent last year.

- o Required to give Social Security number of any dependent you claim who is age 2 or older at the end of the tax year. Applications and information can be obtained from the Social Security Administration.

- o Most taxpayers age 24 or older may exclude interest on redeemed Series EE U.S. Savings Bonds issued after 1989 if they pay tuition and required fees for themselves, their spouses or dependents at an eligible educational institution.

- o If your child has more than \$500 but less than \$5,000 in interest or dividends (including Alaska Permanent Fund dividend), no federal income tax withheld and no earned income, you may be able to choose to include this unearned income on their return. However, child must be under age 14 at the end of the parent's tax year. This procedure cancels child's requirement to file a tax return.

- o If part of a child's income is taxed at the parent's tax rate, child is not eligible for regular exemption when figuring alternative minimum tax. The child's alternative minimum tax exemption will be limited to \$1,000 plus the child's earned income. (The alternative minimum tax is a special tax designed to ensure that all taxpayers pay at least some tax regardless of the deductions and credits to which they may be entitled).

More information on tax law changes can be found in International Revenue Service Publication 553, *Highlights of 1989 Tax Changes*.

Tax Information for Military

Military service members with federal tax questions may wish to consult the Internal Revenue Service's new brochure, *Tax Information for Military Personnel*, Publication 3.

Subjects discussed in the publication include gross income, dependency exemp-



"How To" Publication

The ABCs of Income Tax, Publication 2, is designed to help you with your tax returns and questions. It guides you through a process to determine if you have to file a tax return and, if so, which form to file. It discusses deductible expenses, credits to reduce taxes and a variety of tax tips.

Publication 2 covers all topics found in Publication 17, *Your Federal Income Tax*, but in a condensed form. For more information, refer to other free IRS publications.

Free Pubs!

For a copy of any free IRS publication, call toll-free (800) 424-3676.

Home Interest Limits

A mortgage secured by your main or second home and taken out on or before Oct. 13, 1987, is acquisition debt, and interest is fully deductible. However, there are limits on interest deductions for mortgages taken out after Oct. 13, 1987:

- * A mortgage taken out after Oct. 13, 1987, secured by a main or second home and used to buy, build or substantively improve that home is also an acquisition debt. Interest is fully deductible on loans of up to \$1 million for couples filing jointly and singles and \$500,000 for married filing separately.

- * A mortgage is equity debt if used for other than buying, building or substantially improving that home. You can deduct up to \$100,000 for couples filing jointly and singles or \$50,000 for married filing separately.

- * The interest is not deductible at all if loan was used to make investments resulting in tax-free income.

More detailed information is available in IRS Publication 545, *Interest Expense*.

Tax information courtesy
Armed Forces Information
Service



WHERE 'D THEY GO? ? ? ?

Those of us who remember the good old days when we were teaching Construction Survey will recall our friend Wil Freeze, who reports:

28 November 1989

Dear DMSers,

It hardly seems possible that a year has gone by since the moving vans pulled up to Wheeler Hall and loaded all the equipment and materials associated with the Technical Drafting Specialists Course (81B10) and the Construction Surveyor Course (82B10). Labor Day 1988 marked the day of departure and Labor Day this year marked the anniversary date of the first year in Brown Hall, Fort Leonard Wood, Missouri. The move was successful in every way. DMS would have been proud to watch our instructors "Get on the Truck" and then arrive here to "Hit the ground running."

Construction Survey Class IV/88 was the last class taught in Wheeler Hall and Class V/88 was filled and taught here in Brown Hall without any change in class start dates. Of course, there were a great number of adjustments to make. For instance: classrooms are smaller, storage areas and instructor workspace almost non-existent, and instructor work hours are much longer. Twelve-hour days are the norm, with PT starting at 0500 hours and classes running until 1700 hours. Plus, instructors pull Duty NCO and Sgt of the Guard. Additionally, our authorized slots have been reduced from 12 to 8 in Survey but nothing has dampened our enthusiasm.

A new committee has been formed to direct the progress of our two courses plus the Materials Quality Specialist Course (51G10) under the direction of Mr. Howard Shaw as Chief of the Technical Engineering Committee. Mr. Ron Wenrich is the Course Chief of the 81B course, and I am the Course Chief of the 82B course. Classroom instruction is more closely monitored here and evaluation teams attend our classes sometimes two or three times a week. Instruction is rated Excellent, Satisfactory, or Unsatisfactory. Instructors compete for Instructor of the Month and Year. During the first year, SSG Lloyd Lenker, of the 81B course, was awarded Instructor of the Year, proving the true calibre of the personnel serving on our staff here.

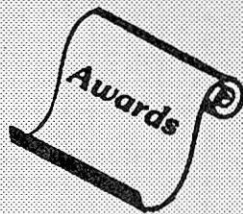
Do we miss DMS? Do we miss the Metro area? I'll let you be the judge of that. Rush hour lasts all of 15 minutes; I-44 traffic moves at 65 mph with most of the traffic in the right-hand lane, allowing the left lane for passing only. The sunrise and sunset over the lovely oakwoods of the Mark Twain National Forest and Ozark hillsides are breathtaking. Bass and trout fishing is excellent. "Honey Holes" can be fished all year around. Deer and wild turkey are extremely plentiful. Caves, hiking trails, and wonderful state campgrounds are located within 50 miles, or less, in every direction from Fort Leonard Wood. Craft fairs are commonplace; quilts costing \$200 and more in Virginia usually sell here for \$50 - \$75.

The consensus is that we will probably add 10 or more years to our life spans, keep our vehicles dent free at least until they are paid for, and do away with temper tantrums and stress clinics entirely. Do we really miss big city life? You be the judge.

If anyone would like to visit to see for yourselves, we welcome you to come out this way on your next vacation and drop in on us. We'll find you a place to sleep, get a fishing or hunting license, and show you some real Ozark hospitality while you're here. You all come.

Sincerely,
Wil Freeze

Director's Call



PROMOTIONS

Military

Dept of Management and Technology

To Major:

CPT Thomas F. Milo (USA)

Civilian

Department of Component Training

To GS-12:

Sue Kersey

Office of Plans, Programs and Operations

To GS-12:

Helga Yovorsky

To GS-9:

Annie Wakimoto

AWARDS

Military

Department of Geographic Sciences

CW04 Steven D. Borgeson (USMC)

Defense Meritorious Service Medal

Civilian

Department of Component Training

John L. Bassett

Outstanding Performance Certificate

Department of Geographic Sciences

Robert T. Murphy

Special Act Certificate

CERTIFICATES

Master Instructor Certificate

Department of Geographic Sciences

TSgt Kevin B. Hartfield (USAF)

SSgt John M. Kilgore (USMC)

Senior Instructor Certificate

Department of Geographic Sciences

SMSgt Gerald A. Smith (USAF)

GySgt James A. Chism (USMC)

SFC Donald R. Payne (USA)

SSG Theodore Mohn (USA)

DMS Certificate of Achievement

Department of Geographic Sciences

SSG William F. Belokon (USA)

Brigade Certificate of

Achievement/APFT Patch

Dept of Management and Technology

MAJ Larry C. Shubat (USA)

CPT William P. Smith (USA)

Department of Geographic Sciences

SFC Paul Swartz (USA)

Department of Graphic Arts

SSG James M. Murphy (USA)

CFC Certificate of Appreciation

Office of Plans, Programs and Operations

Maria C. Becerra

Department of Geographic Sciences

Eduardo Elinan

Office of the Director

Charlotte M. Faehn

Department of Component Training

Sue Kersey

Office of Mission Support

Paulette E. Kommes

Jill Tompkins

Department of Graphic Arts

SMSgt Raymond Poole (USAF)

MSG James A. Mayer (USA)

Department of Geographic Sciences

TSgt Kevin B. Hartfield (USAF)

SSG Maria L. Vigil (USA)

Department of Management and

Technology

TSgt Michael S. Mustard (USAF)

ARRIVALS

Military

Department of Management and

Technology

CPT Scott A. Wilson (USA)

Department of Geographic Sciences

SSG Debra L. Benfield (USA)

DEPARTURES

Military

Department of Graphic Arts

SSG Benjamin Milburn (USA)

Civilian

Office of Mission Support

Jacqueline Darby

In memoriam

We regret the passing of Mr. Keith Shaw, who died of cancer on 21 December 1989. As a USAF Staff Sergeant, Shaw was assigned as an instructor in the Survey Division until January 1986. Interment was at Arlington Cemetery on 26 December.

**Defense Mapping Agency
Defense Mapping School
Fort Belvoir, VA 22060-5828**

OOPS!

Credit should have been given to MGySgt Paul C. Mason and Capt Michael R. Reading in our January '90 issue of Contour for the photos of the DMS Christmas Party. The Editor regrets this omission.



CONTOUR

Up, ↑ Down, ↓ ← Sideways →

by LtCol Charles A. Sakowicz

No, this is not a demented way to express x, y, and z coordinates for a digital data base. It is the way we need to COMMUNICATE. Communication is most important during periods of change.

In any organization, the flow of information moves in at least three directions: up from workers to higher levels, down from management to the front line, and across from one group to another to keep the whole operation geared together. The supervisor is the one in the middle who sees that the word gets through. When the flow is blocked by a nontalking group leader, trouble starts. Communication is the lifeblood of an organization, and if it is not kept moving through clear channels, unhealthy conditions set in. One sign of blockage is the bypass of a supervisor by the workers—they start dealing directly with higher levels. Another sign is the reverse situation—the man-

With these rules and up, down, and sideways in mind, we have a better chance of avoiding rework, mistakes, waste, confusion, and arguments that come from incomplete or garbled communications.

ager goes around the supervisor to contact people on the job.

Other marks of poor communication are heavy runs of rumors or grapevines. Usually a clear report of the facts will render these inactive. The best way is to state the case before the rumor starts, but this is not always possible. Sometimes there are good reasons for holding back, and in other cases, stories may begin that could not be anticipated. Where the facts can be told, supervisors should step in promptly with the truth.

When there are good reasons for not telling everything, state the reasons. Be open about it. Say the topic is confidential or that all plans have not been worked out. Most workers understand, for example, that when changes are being made, the people directly involved have to be notified first. Others are willing to wait their turn.

Information generally falls into one of three categories: first, what in-

dividuals must know to get their work done; second, what they should know because it will affect them one way or another; and third, what they would like to know because they are interested. Healthy curiosity should not be suppressed. It is a sign of concern and far better than a hostile or indifferent attitude toward the whole organization. Information should be provided to satisfy all three levels of need.

Here are a few good rules for more effective communication:

1. Words are not the only way we communicate. Everything we do conveys a message—looks, tone, gestures. Even silence tells a story or makes a statement.
2. Communication, like an electric circuit, requires a complete circuit. Talking and writing, in themselves, are not communication. Listening and reading with understanding are required at the other end to make them effective.
3. Communication has the best chance of getting through if it is adjusted to fit the people who are to receive it.
4. Effective speaking or writing usually holds to the ABC pattern. First, accuracy; get the facts straight. Second, brevity: say only what is needed. Third, clarity: make it easy to understand.
5. A little planning goes a long way. Know your audience and what it is you want to convey; then decide the best way to get the message across.

With these rules and up, down, and sideways in mind, we have a better chance of avoiding rework, mistakes, waste, confusion, and arguments that come from incomplete or garbled communications. An informed work force is a happier work force.



*Spring
forward*

*Set clocks forward one hour
at 2 a.m., April 1.*

The Direct Line

Weather-wise, March is usually the month which brings us the winds of change as winter departs and spring arrives. The blustery days, the turbulence, are all part of the transition.

The transition period in which DMA now finds itself is not unlike the weather of March—somewhat blustery. Several factors influence our organizational climate.

Foremost among the influences is the ongoing development and implementation of the Digital Production System (DPS). A revolutionary technological undertaking, DPS changes many of the production methods we have used for years; causes organizational restructuring; demands training in new techniques and methods; and in general, brings about questions faster than they can be answered.

Other major influences center around the economic considerations facing the Department of Defense and DMA. Last month I issued an "all employee" letter describing the severity of budget reductions and outlining some actions that the agency is exploring to meet the reductions. The theme of the letter was not good news but rather expressed the reality of the Administration's budget proposals and the need to become even more efficient.

When these influences bear upon an organization, it is understandable that some of our days are going to be blustery; that there is going to be some turbulence at all levels.

Turbulence can be constructive as well as destructive. Constructive discussion and



Maj Gen Robert F. Durkin

examination of issues, rather than emotional reaction, can lead to better understanding and helpful input to solutions. I urge you to examine issues from an agency perspective, recognizing that if the larger does not survive, then neither will the smaller. Our examination must consider, in order, the needs of the Nation, then the Agency, then the Component.

I firmly believe we can meet the blustery days of spring head-on through cooperation, understanding and the professional teamwork for which DMA is noted. Just as March heralds the changing season, so it can herald the coming of a more efficient DMA.

Court Rules In Favor Of DMA Drug Testing Program

Federal Judge Harold Greene, U.S. District Court for the District of Columbia, ruled that the Defense Mapping Agency could proceed with its no-warning random drug tests for DMA personnel holding security clearances, according to DMA General Counsel Edward J. Obloy. The court challenge to the agency plan had been raised in federal court by the unions.

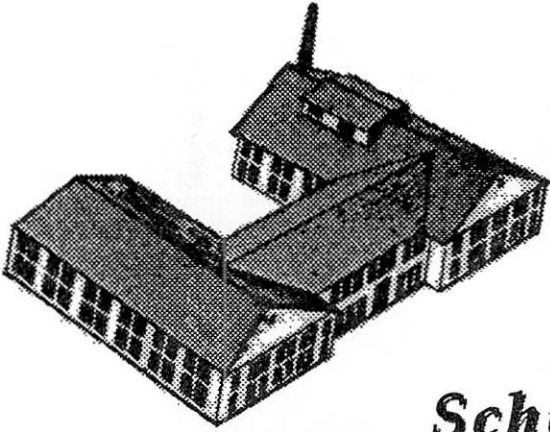
DMA is now proceeding with the implementation of its random drug testing program. The collection and testing policies and procedures are in place, and the first random tests will be conducted at Headquarters DMA.

The court ruled that the government may properly make testing a requirement for holding a Secret and Top Secret security clearance. Nearly 8,000 DMA employees have Secret and Top Secret clearances. Under the agency plan, employees who hold these clearances will be selected randomly and required to appear on short notice to produce a urine specimen.

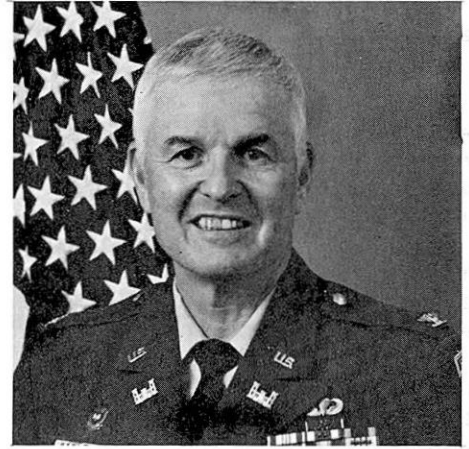
A verified positive test result triggers mandatory disciplinary and administrative actions. Any employee found to use illegal drugs must be referred to the Employee Assistance Program for counseling and rehabilitation; removed from their sensitive position/duties; and disciplined (suspension to removal), for illegal drug usage. DMA's drug testing plan is a result of an Executive Order which established the policies regarding a drug-free federal workplace.

DMA Director MG Durkin (far right), Aide Capt Glesken and Senior Enlisted Advisor SGM Kameda order breakfast at the second annual DMA Directors Breakfast for DMS held at Fort Belvoir on February 6, 1990. (Photo by SGM John S. Dodge III)





From the Schoolhouse



Colonel Daniel R. Clark
Director
Defense Mapping School

As the Nation celebrates Women's History Month, we at the Defense Mapping School are proud to celebrate the contributions and achievements of the 38 women who are part of the DMS staff and faculty. Thirty-two civilian women and six active duty military women are currently members of the DMS team. Collectively, they perform a wide range of duties including department chief, senior resource manager, physical scientist, instructor, chief of public affairs, registrar, budget officer, manpower analyst, graphic artist, technical editor, plus an array of secretarial, administrative and logistic duties. Their overall performance is superb. Individually and collectively, they make a major contribution to the successful execution of the Defense Mapping School mission every day.

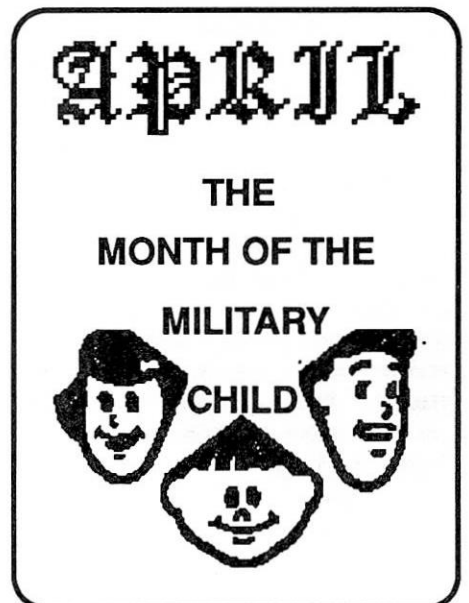
History theme months seem very beneficial to me. I see and read articles that might not otherwise come to my attention. I look things up; I learn things I didn't know before. Here are a few items related to Women's History Month.

A front page article in the 20 Feb 90 edition of the Washington Post suggests efforts to advance women's jobs in the private sector have not been particularly successful. Perhaps that shouldn't surprise us. Notwithstanding the enormous contribution of women assigned to DMS, we're far from being in a position to boast about equality of assignments. For example, there are 23 officers assigned to DMS; none of them are females. There are seven warrant officers assigned to DMS; none of them females. We have 41 noncommissioned officers in the grade of E7 or higher; only one of them is a female. Have we really come such a long way, baby?

It's easy to find anecdotes and quotations on the subject of women. Some of them are quite provocative. Here's a sample—"Nature has given woman so much power that the law cannot afford to give her more."—Samuel Johnson. "A woman without a man is like a fish without a bicycle."—Gloria Steinem. "Whatever women do they must do twice as well as men to be thought half as good. Luckily this is not difficult."—Charlotte Whittem. "No woman has ever stepped on Little America—and we have found it to be the most silent and peaceful place in the world."—Richard E. Byrd. "Who talks more than women? Men!"—Marge Kelley, (executive secretary, Defense Mapping School).



LTG Andrew P. Chambers, USA (Ret.), guest speaker at the DMS Black History Program on February 21, 1990, extols the many accomplishments of blacks throughout history.



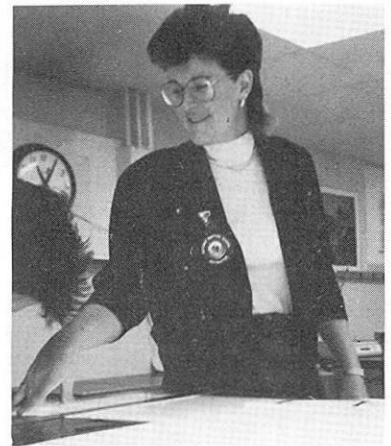
Women 's Roles at DMS



**Physical Scientist
Karen Williams**



**Chief, Component Training
Kelley Lillegard**



**Instructor, GAP
Deborah Vaughn**



**Management Analyst
Paulette Kommes**



**Personnel Assistant
Jill Tompkins**



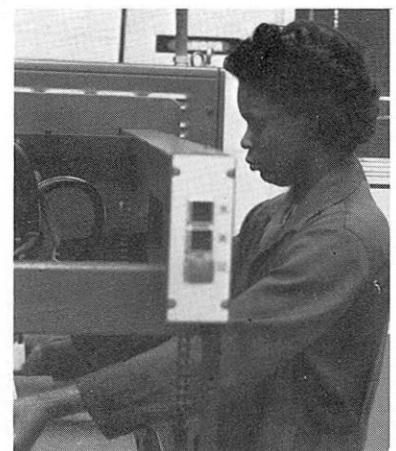
**Warrant Officer Candidate
Terri L. Metzger**



**Geologist
Janel Burdo**



**Registrar
Lynn Keleher**



**Instructor, GAR
SSG Vel V. DeBerry**



**Visual
Information
Specialist
Jeanne Elmore**

Photos by Joyce J. Beck



Cathy McCloskey
Federal Women's Program Manager

This month we celebrate "Women's History," with the 1990 theme, "Courageous Voices Echoing In Our Lives." Following action by the Congress, House Joint Resolution 148, President Bush signed the proclamation to declare that Women's History Month, 1989 and 1990, would be celebrated in March of each year.

Although we honor women in all walks of life this month, it is especially fitting that we at the Defense Mapping School highlight the efforts and contributions of military women throughout history. Therefore, I am reprinting an excerpt from the brochure "Women In Military Service for America Memorial." The brochure is distributed by the Memorial Foundation spearheading the drive to erect the women veteran's memorial. If you would like more information, stop by and see me.

Women's History Month, 1989 and 1990
By the President of the United States of America

A Proclamation

Women have written many proud pages in the history of the United States, throughout all areas of our national life. Women's History Month is a time to recognize those contributions and the critical role they have played in the preservation of the principles and values that all Americans hold dear.

Women have served with distinction in all professions; they have contributed to our Nation's prosperity in all fields of business; they have served our country with courage in time of conflict; they have educated and inspired our children; and they have figured prominently in all our great struggles for political and social reform. Today women play a major role in our public life—they can be found working in the Congress, in the Cabinet, on the Supreme Court, and in our embassies around the world. Every aspect of our national life has been touched by the leadership, energy, and insight of outstanding American women.

This month, as we recall the achievements of prominent women in U.S. history, we also remember the quiet yet lasting contributions women have made to our society through the family, as volunteers in local charities or relief organizations, and as leaders in our churches. Women have demonstrated their great love for this country and have made that love real by their engagement in the lives of others. If any definition of a successful life must include service to others, countless women live successful lives. Through their tireless service on a daily basis, the women of our Nation have woven the fabric of families and communities. For it is the family and the local community that have always been our Nation's stronghold, the first and greatest source of Americans' civic pride and sense of duty. The women who have sustained these institutions throughout America's history have strengthened this country beyond measure.

The Congress, by House Joint Resolution 148, has designated the month of March 1989 and the month of March 1990 as "Women's History Month" and authorized and requested the President to issue a proclamation in observance of the events.

NOW, THEREFORE I, GEORGE BUSH, President of the United States of America, do hereby proclaim March 1989 and March 1990 as Women's History Month. I call upon all Americans to observe these months with appropriate ceremonies and activities

IN WITNESS WHEREOF, I have hereunto set my hand this twenty-fourth day of March, in the year of our Lord nineteen hundred and eighty-nine, and of the Independence of the United States of America the two hundred and thirteenth.

/s/ George Bush

History Of Women In Military Service

Excerpted from the brochure: "Women in Military Service for America Memorial". Distributed by the Women In Military Service Memorial Foundation, Washington, D.C.

American women have served this nation in its armed forces with "ability, adaptability, and stability." In the Continental Army during the Revolutionary War, courageous women used disguises and their wits to get the job done.

In the Civil War, there were white and black heroines who were suppliers, nurses, saboteurs, spies, and soldiers.

During the Spanish-American War in 1889, 1500 women nurses served under a civilian contract to meet emergency needs. This led to the Army Nurse Corps being formed in 1901, followed by the Navy Nurse Corps in

1908. In World War I, some 35,000 women served in our armed forces as nurses and enlisted women in the Navy and Marine Corps.

Over 400,000 women were in the World War II effort, serving in all branches and in all overseas theaters. These women performed a wide range of military jobs from stenographers and technicians to truck drivers and gunner's mates. There were well over 200 casualties, including Army nurses and female pilots from the Women Airforce Service Pilots. More than 80 nurses were imprisoned in enemy camps, most for over three years. In addition, several hundred women were decorated for their heroic services and deeds.

In 1948, the Women's Armed Services Integration Act gave women a permanent place in the armed forces. Since that time, in Korea, in Vietnam, and in peacetime, they have

served with commitment, dedication, and sacrifice. Approximately 7500 served in Southeast Asia with eight losing their lives for their country.

Today more than 400,000 women are active duty, reserve, and Guard members of the Army, Navy, Air Force, Marine Corps, and Coast Guard. It is estimated that there are about 1.2 million living women veterans. In today's armed forces, women are partners with men, comprising over ten percent of the total number.

The history of their dedication, commitment and sacrifice is largely untold; their historic contributions, invisible; their partnership with men in defense of the nation, seldom written. The hope—the dream—is that this memorial will inspire others to emulate, follow, and surpass these heroines.

Focus on the Components

CHARTING THE PATHWAYS IN AEROSPACE

From yesterday's triumph of the Wright Brothers at Kitty Hawk to today's voyage of the Space Shuttle, each leap in aerospace technology has meant corresponding new requirements for more sophisticated aviation navigation.

For expertise in the world of aerospace charting, DMA relies on the Aerospace Center, which is responsible for creating, developing and producing the variety of aerospace charting products and services that are required for each and every mission of today's modern aerospace weapon systems and space vehicles.

The main Aerospace Center production facility is located near downtown St. Louis on the site of the historic St. Louis Arsenal, which was established in 1827. Some of the original Arsenal buildings, dating back to the 1830's, are still in use.

The second facility in St. Louis is located five miles south of the Arsenal grounds and is known as the South Annex. This facility houses the Department of Defense Library of Gravity Data.

The Center generally divides its production into four categories which support manned aircraft, aircraft simulators, missile guidance systems and manned space missions.

Manned aircraft of all U.S. military services are provided a variety of cartographic products such as navigation charts in several scales to aid aircrews flying the largest to the smallest aircraft in the inventory.

Flight Information Publications, commonly known as FLIPS, are used for takeoff, enroute navigation and landing of every military flight.

Many aircrews use filmstrips for navigation. Charts on filmstrips are projected individually on a screen in front of the pilot. As the aircraft moves, the chart moves across the screen so that the aircraft position is always shown at the center of the display.

The Aerospace Center is also involved with the worldwide collection of airport facility information. Data on some 43,000 free world facilities is

continually updated and maintained in the automated air facilities information file.

While both the Aerospace Center and Hydrographic/Topographic Center produce Digital Terrain Elevation Data (DTED) and Digital Feature Analysis Data (DFAD), each Center has unique uses for these data bases.

For example, vertical obstruction data and terrain contour matching (TERCOM) are both special program files of the Aerospace Center which support, among other things, the cruise missile.

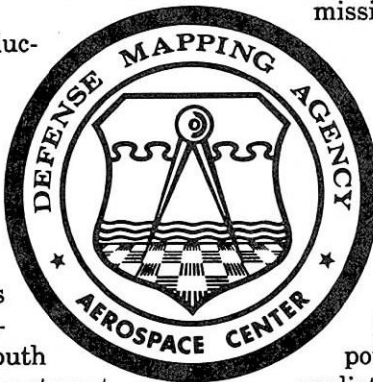
In the cruise missile, digitized information is stored in the guidance system. After launch the missile compares the stored information against the terrain it flies over and adjusts its course to accurately guide itself to its target.

Advanced aircraft simulator systems use digital data to electronically generate a radar image of potential flight areas, or to create realistic scenes as viewed from the cockpit.

Aerospace Center computer cartographic information is vital to the nation's missile program. For the land based missile, the Center develops launch region gravity models and other gravity information. When loaded into the navigation and guidance system by the launch officer, the data will assist the missile in its accurate flight.

While charting of the earth's surface is important of the aviator, the charting of the lunar surface and space by the Aerospace Center has been important to our Nation's astronauts since the first manned space mission in 1961. The Center supports NASA through production of charts and data used by mission control, flight crews in orbit and recovery forces around the world. The Aerospace Center's role in space continues with the advent of the Space Shuttle Program.

Today, we are at the dawn of new eras in both cartography and aviation. But whatever the challenges that lie ahead, DMA's Aerospace Center will continue to meet them.



CARSO -- New Acquisition Function Created

Reorganization of DMA procurement functions in 1989 resulted in the creation of the Consolidated Acquisition Review and Support Office or CARSO located in the Washington, D.C. area.

"The creation of CARSO centralized what needed to be done at three locations into one location," stated M.Z. Labovitz, DMA director of Acquisition. CARSO's function is to provide acquisition policies and acquisition support to the contracting centers and to the headquarters director of Acquisition.

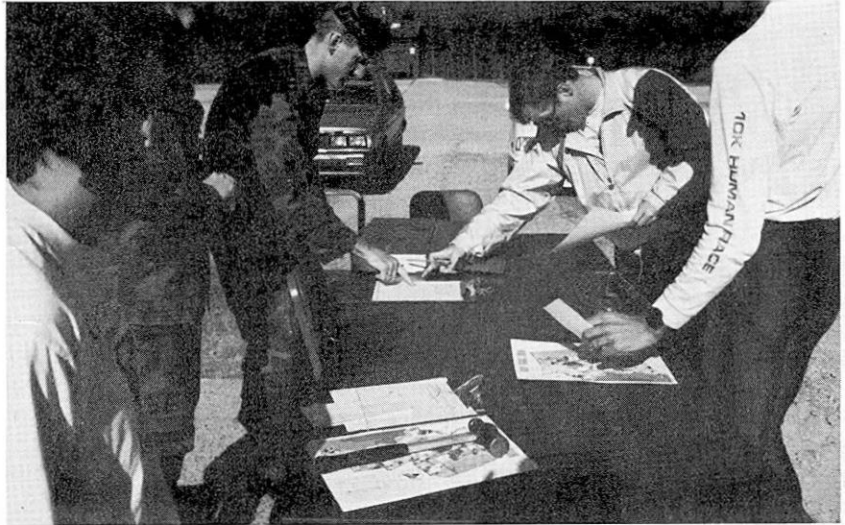
Labovitz added, "The new organization must consider and be responsive to the needs of all three previous activities. The ultimate goal was (and is) to streamline the acquisition functions, and enable the contract operational centers to concentrate on individual contracts as opposed to the myriad of ancillary functions imposed on the contracting system in an effort to fulfill other socioeconomic and public accountability goals."

Acquisition policy functions include establishment of procedures to ensure compliance with higher level acquisition regulations and directives. This ensures that procurement related programs such as the competition advocacy program, the contracting officer warrant program, the acquisition intern program and the socioeconomic programs are implemented and monitored. Additionally, CARSO prepares DMA positions in response to requests from the Pentagon or DMA needs for procurement information and data.

Acquisition support functions involve providing cost and pricing assistance, centralized management of the small and small disadvantaged business programs, automated contract writing, automated research capability, acquisition training and developing contract specialist desk aids. For example, DMAM 4245.21 entitled "Planning and Preparing a Purchase Request Package" which is a step-by-step explanation on how to prepare a purchase request package was prepared and will be maintained by CARSO.

Additionally, CARSO performs acquisition management reviews and individual document and contract reviews which enable the DMA senior procurement executive to manage and certify the DMA procurement system.

🌲 "Blue Noses" Hit the Trail 🌲



SSG Mohn in-processes LCDR Pigg from HTC.

The first DMS Blue Nose Orienteering Meet got underway at 12:30 p.m., January 31, 1990, on what turned out to be a chilly but beautiful fall-like day.

LtCol Sakowicz, assisted by MGySgt Mason, SSgt Kocheran, SSG Benfield, SSG Mohn, and Mr. Elinan, all from the Department of Geographic Sciences, plotted the course, set up the checkpoints and provided the maps and compasses to guide the adventurous HTC and DMS participants.

Winner of "Blue Course," 5K with 14 checkpoints, was Clare Durand from HTC. Her time of 1 hour, 10 minutes, 6 seconds was the best of 16 runners on the Blue Course. Capt Reed, with a time of 1 hour, 28 minutes, 4 seconds, won the "White Course," which was 2.7 K long with 12 checkpoints and easier terrain.



LtCol Sakowicz briefs participants before the meet gets underway. (Photos by SGM John S. Dodge III)

Director's Call



SFC Jose A. Pereira (USA)
Department of
Management and Technology
Defense Meritorious Service Medal

CPT Scott A. Wilson (USA)
Department of
Management and Technology
Meritorious Service Medal

ARRIVALS

Military

SSG Julio Escobar-Ramos (USA)
Department of Graphic Arts

SGT Dorothy M. Hernandez (USA)
Department of Geographic Sciences

Civilian

Deanna O'Bryan
Office of Mission Support

DEPARTURES

Capt Nelson J. Mora (USAF)
Department of
Management and Technology

SSgt Thomas B. Walt (USAF)
Department of Geographic Sciences



BUC Thomas Kidney Jr.

The BUC(K) Stops Here

by Capt Henry J. Schneider

During the month of September 1989, the question of the hour was "What is a 'BUC Kidney'?" The answer is a U.S. Navy Chief, Builder Chief, E-7, BUC for short. He arrived during the month of October with a wife and two children. He has a 7-year-old son, Adam, and a daughter, Kerrie, who is 4. His wife, Robin, and the Chief have settled into River Village housing area on Fort Belvoir. Having just arrived from duty in Bonn, Germany, Embassy, they were hoping for a mild winter in Northern Virginia, only to be greeted by record snowfalls.

Chief Kidney joined the U.S. Navy on 12 January 1976 to see the world, but NOT on a ship. He has been overseas for the majority of his service time and plans on leaving the States upon completion of his tour with DMS. The first four years of his career were spent

stationed with the Mobile Construction Battalion 62 at Gulfport, Mississippi. He was rarely home during that time. The unit deployed to Diego Garcia, Japan, and Greece to work on new construction projects. The following two years were spent in Keflavik, Iceland, as part of the Public Works Department at the Naval Station, Keflavik. This was followed by 36 one-month tours at the navy Recruiting Station, NRD Jacksonville, Florida. Then it was back overseas for duty with the Naval Support Unit, State Department. BUC spent the first 13 months in the TDY pool. This time was broken up into three TDY trips to embassies: Moscow for six months, El Salvador for one month, and Peru for six months. He had the great pleasure of working with Corporal Bracy (the spy), arriving in Moscow three days after Corporal Longtree left. The last two years were spent in Bonn, Germany. This was a real hardship. His duties required him to take seven-10 day trips all over Europe. He was then transferred stateside to DMS.

Having spent the months of October through December 1989 settling his family into Fort Belvoir, it was time to get serious about life. The BUC went hunting. As the hunting season progressed, the chances of Chief Kidney bagging a deer looked dim. Every Monday morning the PPO office awaited the weekend's status report, "Was Bambi safe for another week?" By New Year's, drastic measures were needed—he took a week of leave. The outcome was a 56-pound dressed-out dog, deer? Chief Kidney regularly pursues his other hobbies which include softball, golf, and bowling. As a member of the DMS bowling team, he has the potential of competing for the All Army bowling team. The BUC will also represent PPO in the Over-30 Basketball league.

**Defense Mapping Agency
Defense Mapping School
Fort Belvoir, VA 22060-5828**

Official Business

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Defense Mapping School

CONTOUR

Volume 17, Number 7

April 1990



Dr. Clyde Nix works his way through stacks of course material during the accreditation process.

Accreditation Evaluation Completed

by William Crisp

The Defense Mapping School underwent a very successful evaluation by the Southern Association of Colleges and Schools (SACS) during the week of 5 March. The SACS Visiting Team consisted of Dr. Clyde Nix and Mr. Al Salazar, who examined all aspects of the School's operation and stated that the Defense Mapping School is an excellent organization. Dr. Nix was particularly impressed with the way in which lesson plans are followed at DMS. Both he and Mr. Salazar rated our educational programs very high, including the programs of our newest division, IAGS. All 20 IAGS Division courses have been accredited by SACS.

See SACS pg 7

FDP Course Provides Professional Growth and Development

by Rebekah Wilfong

The Faculty Development Program (FDP) is the Defense Mapping School's instrument to provide for an instructor's professional growth and development. Special attention is given to broadening instructor experiences beyond traditional teaching. Each predetermined activity leads toward the award of target points at the levels of Senior and Master Instructor. Academic departments plan each instructor's progress toward the attainment of Senior and Master Instructor by assigning points for a variety of activities surrounding teaching duties and responsibilities.

The Department of Component Training is offering two new courses to afford instructors more opportunities to attain target points under the Faculty Development Program. Graduates of these courses will have the basic skills and knowledges necessary to develop successful materials for implementation in the DMS training environment.

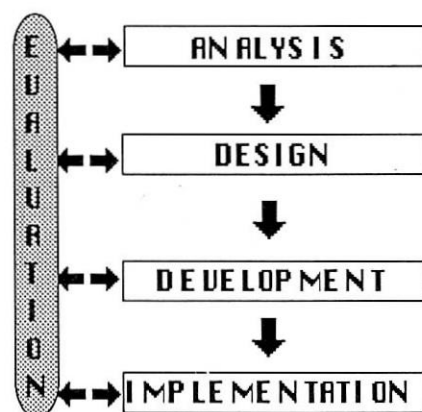
In both courses, students start by studying the basic concepts and theories, then they apply the newly gained knowledge in practical exercises based on specific subject matter taught at DMS.

Test Item Construction (TIC) is a two-day course that will be offered four times in FY90. The purpose of the course is to produce clear, well-written examinations that accurately evaluate student achievement of DMS course objectives. It covers the basic concepts of test construction, test item analysis, and examination procedures. The course is graded on a Go/No-Go basis and is open to all ITC-qualified instructors. It is an excellent way to gain target points for those who want

to move from Instructor to Senior Instructor or from Senior to Master Instructor.

Systems Approach to Training (SAT) is a week-long course that is offered three times in FY90. It is geared toward practical applica-

SAT Model



tion of the development of training materials at DMS. The course is designed to take students through the entire SAT process, from analysis to implementation, with special emphasis on evaluation and feedback. Students develop sample training materials in each of the five phases using individual areas of expertise. The SAT course is an excellent way for faculty to develop professionally while gaining target points for Senior or Master Instructor.

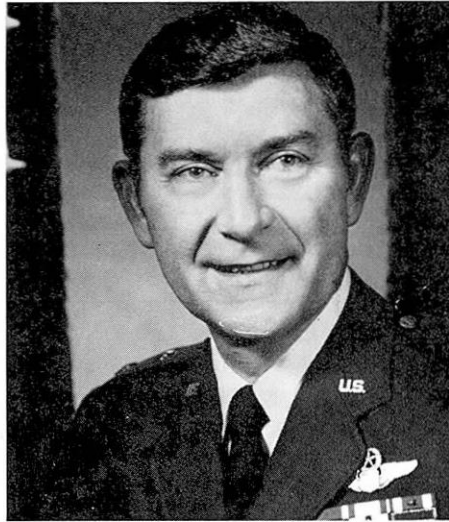
Point of contact for both courses is the FDP Manager, Sue Kersey, at 355-7896.

The Direct Line

Streamlining Raises Hiring Question

The ongoing organizational realignment actions have generated several questions, most of which are addressed in other articles of this edition. But there is one question that I want to answer here, and that is—"If the agency is streamlining organizations and drawing down the work force, why then are we continuing to hire?"

In previous columns I addressed those issues which impact upon DMA, such as, the reductions in the proposed DoD budget and the requirement to initiate management improvement actions. DMA is receiving its share of the overall DoD budgetary reduction. The organizational realignment actions, which I addressed in a February letter to all employees, are the result of preliminary budget guidance. As this edition goes to press, we are reviewing additional fiscal guidance to determine the actions required to reach the lower monetary targets. While the



Maj Gen Robert F. Durkin

budget scene is changing rapidly, it is not beyond expectation to see reductions in the range of 1000-2000 spaces in the next five years.

Our goal is to bring down the size of the

work force while ensuring that we have the right skills in the right place to accomplish an effective transition to the digital production system. At the same time, we must continue to respond to the priority needs of the war fighting commanders for MC&G products and services and to the requirements mission and development of future capabilities.

DoD guidance requires us, to the maximum extent possible, to reduce staff without reducing program output. To accomplish this very difficult task, DMA has to make major changes in the way it does business. As reduction plans are developed agency-wide, a proportional balance must be maintained between production and support activities. In both areas, we must look for manning efficiencies gained through organizational realignments, streamlined operations, and application of new technologies.

The hiring actions for selected skills, coupled with the realignment actions, will enable the Agency to maintain the required work force, build up the Reston Center and ensure that we provide security to our facilities.

DMA Realignment Personnel Policy Highlights

In February, the DMA Director approved a series of consolidation and centralization proposals and other streamlining actions. Implementing the actions will result in staffing reductions in certain skill areas. The Agency will make a concerted effort to minimize the impact of these reductions on its employees as well as the organization.

The following highlights the policy guidance approved by the Director. Details will be provided through the servicing personnel offices.

Hiring, Promotion and Reassignment Actions. In order to facilitate the realignment process and protect individual entitlements, all promotions and reassignments in the affected functions and/or organizational elements are frozen, effective immediately. Exceptions must be approved by the DMA Director. External hiring, already frozen by DoD, will be tightly controlled. If vacant positions in affected functions and/or organizations are approved to be filled, they will be

made available to qualified personnel affected by these actions before external hiring action is initiated.

Voluntary Early Retirement. If the criteria set by the Office of Personnel Management (OPM) are met, and the Director of DMA determines the use of early retirement authority will reduce the adverse impact on affected personnel, early retirement authority will be requested. Early retirement authority may be limited to those skills and geographic areas where the potential for easing the adverse impact is greatest.

Internal Placement. Placement of people displaced by these actions will be managed by a central Agency-level unit. Communication with employees about placement opportunities will be conducted by the members of the unit. Approved vacancies will be filled by qualified employees from the same geographic area. Those who cannot be placed at their current geographic location will be considered for placement in approved vacancies elsewhere in the Agency.

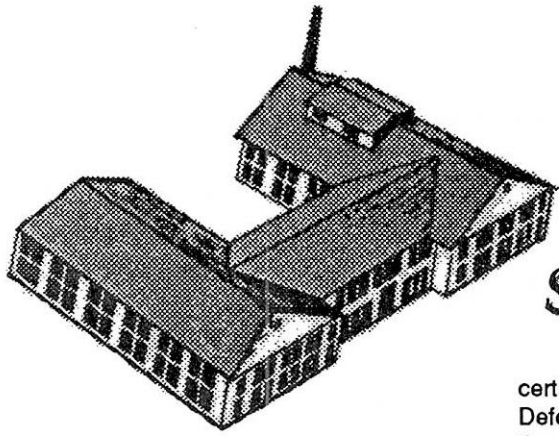
Reduction-In-Force (RIF). Every effort will

be made to preclude having to separate employees. However, some separations may be necessary to reach established end strengths. RIF procedures will be used to effect separations. Retained grade and pay will be accorded employees who are reduced in grade or pay as a result of a realignment action, to the extent permitted by regulations.

Retraining. Retraining will be offered in lieu of separation to employees who have demonstrated the potential for retraining for new careers in skills where the Agency will need new or replacement personnel. An Agency-level review board will review, and approve/disapprove, retraining candidates.

Outplacement. Outplacement will be aggressively pursued for those excess personnel who seek such an opportunity. Affected employees will receive counseling on the outplacement opportunities available to them. All employees

See REALIGNMENT pg 7



From the Schoolhouse

Two months ago in February 1990, the main subject of this column was our preparation for the expected visit of inspectors from the Southern Association of Colleges and Schools (SACS). That important visit occurred on schedule last month. Dr. Clyde Nix and Mr. Al Salazar conducted a thorough review of our entire operation. The results of their inspection were most gratifying. Dr. Nix's summary comment during the out-briefing was "You have a great school here. It makes me feel proud to know that our government and military have schools like this." Dr. Nix and Mr. Salazar are tough, competent inspectors with extensive experience as team leaders on accreditation visits to numerous education institutions. At the same time, they certainly showed themselves to be helpful colleagues who offered genuinely constructive recommendations for making our solid programs even stronger. DMS received an official written copy of Dr. Nix's formal report on 19 March. I was very proud of it. It might take another 60 days for SACS to publish its written decision on reaccreditation, but whenever the decision comes, it is

certain to be favorable. Everyone at the Defense Mapping School who contributed to the successful outcome of this important reaccreditation visit certainly deserves to be proud of the result.

We at DMS are serious about our mission related to education and training but it's important to keep our balance, and especially our sense of humor. It's appropriate in this month of the April Fool to reflect that numerous wits and pundits had fun "fooling around" with the subject of education. Here are a few examples: "Education is the inculcation of the incomprehensible into the indifferent by the incompetent."—John Maynard Keynes. "How is it that little children are so intelligent and men so stupid? It must be education that does it."—Alexandre Dumas fils. "You can't expect a boy to be deprived until he has been to a good school."—Saki. "The advantage of classical education is that it enables you to despise the wealth which it prevents you from achieving."—Russell Green. "The average Ph.D thesis is nothing but a transference of bones from one graveyard to another."—J. Frank Dobey. "She used to be a teacher, but now she has no class."—Fred Allen. "Nothing in education is so astonishing as the amount of ignorance



Colonel Daniel R. Clark
Director
Defense Mapping School

that accumulates in the form of inert facts."—Henry Adams. "Everybody who is incapable of learning has taken to teaching."—Oscar Wilde. "Show me a man who has enjoyed his school days and I'll show you a bully and bore."—Robert Morley. "You don't have to think too hard when you're talking to a teacher."—J.D. Salinger. "Most educators would continue to lecture on navigation while the ship is going down."—James H. Warren. "For every person wishing to teach, there are 30 not wanting to be taught."—W. T. Sellar and R. J. Yeatman.

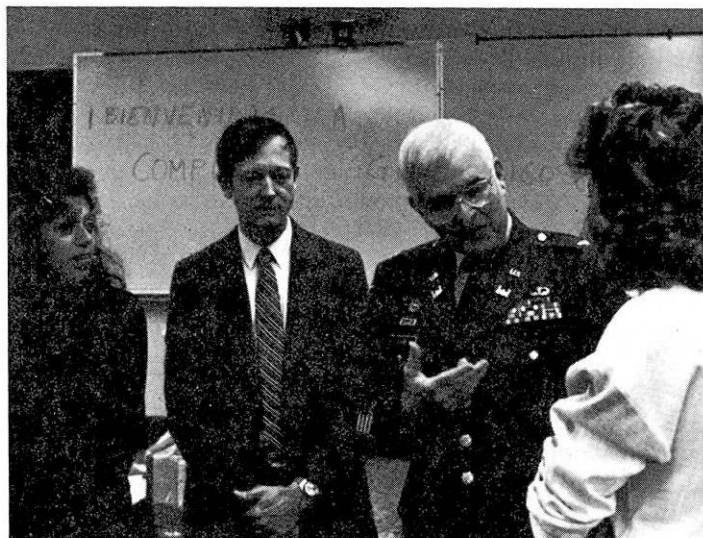
Whew! Those folks really unloaded on us, didn't they? Notwithstanding their pessimism and generally cantankerous outlook, we will do well to recognize the grains of truth in their sarcasm and use that insight constructively in our work.

The **CONTOUR** is published monthly by and for the Defense Mapping School. Contents are not necessarily the official views of, or endorsed by, the U.S. Government, the Department of Defense or the Defense Mapping Agency. Editorial content is edited, prepared and provided by the Public Affairs Office of the Defense Mapping School.

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COL Daniel R. Clark welcomes Venezuela students Nieves Almeida (L) and Mercedes Hernandez to the inaugural class of the IAGS Division as Division Chief Dennis Dodson looks on.

Organizational Realignment

- What's Happening With
- Implementation?

The following interview with Brigadier General Joseph Pratt, Chairman of the Reorganization Implementation Team, was conducted by David L. Black, DMA Director of Public Affairs.

Question: In February the Director issued an "all employee" letter indicating a number of realignment actions had been developed and approved for implementation. You were named to chair the Implementation Team. Before we get into the work of the Team, perhaps, I need to ask the question—Why do we need to reduce?

Response: I think the Director made it very clear in his February letter to the employees. The budget proposals announced for the Department of Defense call for reductions in budgetary authority. One of the Administration's key goals is to achieve budget reductions through management improvements. The DMA organizational realignments are part of our efforts to meet our budget reductions through streamlined operation. But we are also carefully reviewing our requirements to make sure production priorities are correct and products requested are needed by the commanders in the field. The need to do less with less is an underlying consideration. In January the Director instituted a resources review. Based on the review recommendations, he felt that 400-500 positions could be eliminated. My Team is now charged with implementing those actions.

Question: Which brings us to the thrust of this interview—What is the Team doing?

Response: As you know, from some of the actions the Team has imposed on your office, things have been moving rapidly and they must if we are to begin implementation by FY 91. As indicated in the Director's letter to employees, there are 22 items which he approved for realignment actions. (A listing of the items is shown in the box accompanying this article.) The first thing the Team did was to develop an overall implementation strategy. We then had each of the functional managers associated with the actions present briefings on the concepts approved by the Director. It is the Team's purpose to ensure the Director's guidance is properly reflected in the concepts and that each

individual implementation plan properly interfaces with all the other plans in terms of agency-wide personnel policy, regulatory requirements, and management efficiencies gained. We want to be sure the functional managers, who will ultimately be responsible for implementation of actions in their areas of expertise, have examined their action from all angles—How it affects the functional mission; how it affects the work force; how it affects the components or other organizational structures.

Question: You indicated the first thing the Team did was to develop strategy—How do you propose to implement the actions?

Response: Now that we have heard the concepts and made suggestions for further refinements, we are task-

.....

" We realize actions of this magnitude give rise to concerns. It is our intent to place factual information before the work force as soon as we can after decisions are made. "

.....

ing the associated functional managers with the development of detailed implementation plans based on a format developed by the Team. When these plans are complete they will be reviewed by the Team and forwarded to the Director for approval to implement. I expect plan development to be accomplished by 4 May. I might add, the development of these plans is not an easy task. Realignment, consolidation, centralization are all very complex actions requiring detailed planning. After the plans are developed and approved, specific implementation will start with some changes becoming effective 1 Oct 90. The Team worked with Personnel to develop an implementation Personnel Policy. This policy statement has been approved by the Director. (See Realignment Personnel Policy Statement highlights elsewhere in this edition.) The pur-

Organizational Realignment- (Continued)

pose of the realignment is to create a more efficient DMA given the scope of the budget reductions. To do this will require significant reductions in certain skill areas. It is our intent to make a concerted effort to minimize the impact of the reductions on the individual and the organization. Unfortunately, even our best efforts will probably not eliminate all the severe impact possibilities.

Question: *Employees are concerned with what's happening, in particular, how the implemented actions affect them individually. How do you plan on keeping the work force informed?*

Response: We realize actions of this magnitude give rise to concerns. It is our intent to place factual information before the work force as soon as we can after decisions are made. The process has already started. This interview is an example. In February the Director informed every employee, by personal letter, of the impending organizational realignments; in March his Direct Line, published in Component papers, further discussed the budget issues and the difficulties which lie ahead. In addition to this interview, the April issue of the Component papers carries a list of the 22 actions and highlights of the Reorganization Implementation Personnel Policy. It is our plan, as soon as possible after an action plan is approved for a functional area, for three things to happen. One, the Team will provide general information on the approved actions to the Component Directors for relay to their employees. Two, short articles, which generally describe the new

organization or functional change, will be published in the newspapers. And three, perhaps the most important, the senior functional manager will personally brief the affected employees on the specifics of realignment implementation. A "Help Line" phone will be established in early June to take employee's general questions and provide answers in a special Realignment Question and Answer column in Component papers. Recognizing some of the actions will occur over a several month period of time, we also want to ensure that some follow-up actions take place. The follow-ups, to be accomplished by the functional manager, will assist the employee in understanding his or her new organizational environment and will assist other employees in understanding the new organizational interfaces.

Question: *That ends my questions, any more you wish to add?*

Response: Dave, let me add just a little more before we close this interview. The Director and all of us involved in the difficult implementation actions are fully aware of the organizational and individual difficulties we face. No decision to reduce manning or to change the way we do business is an easy decision. But the times and good management dictate we give ourselves a careful self-examination. Some of the self-examination has already taken place and the Team I chair has the responsibility of implementing the results to date of that examination.

Black: *Thank you General Pratt. The work force appreciates the opportunity to hear from you on such an important undertaking.*

Organizational Realignment Actions

1. Centralization of Programs, Production & Operations
2. Centralization of Quality Control
3. Collocation of AID with printing at HTC
4. Contracting of Catalogs
5. Reducing PMO Layer
6. Merge Production Systems Directorate
7. Alter Span of Control
8. Combat Support Center PP Realignment
9. RE and SC Consolidation
10. Consolidation of Configuration Management
11. Consolidation of DMA Library Functions
12. Consolidation of Trouble Desk
13. Reduction of Transition Management Teams
14. Reorganization of Comptroller
15. Consolidation of ADP
16. Reorganization of TSC
17. Reorganization of Information & Records Management
18. Centralization of Plans & Requirements
19. Consolidation of Public Affairs and Protocol
20. Consolidation of Personnel to create Human Resources
21. Consolidation of Acquisition with study of consolidation of all supply activities; consolidation of all HQ and Component Facility Engineering activities.
22. Consolidation of all HQ and Component Logistics activities.

What's In A Name?

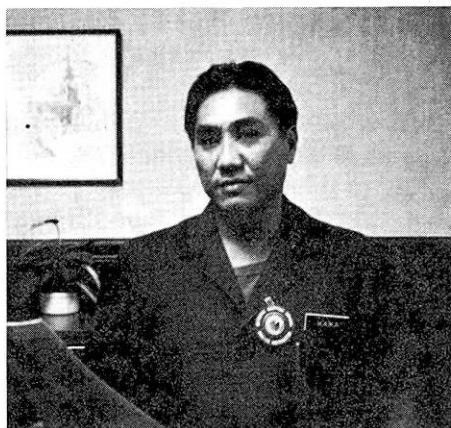
by SSG Dwayne Asao Manu Ikaika
(AKA Strong)

The evolution of a name is often a complex subject that can consist of a mixture of facts, legend, and tradition. Recently, I made a decision to reclaim my legal ancestral name; but before I tell you my story, allow me to give you some background information which led up to the events of today.

I am a native of Hawaii. Legend and stories relating to Hawaii's history date back a thousand years before the American Colonies became a nation in 1776. Hawaii's history is ancient and proud. It is highly unlikely that the exact date when Polynesian people first set foot on these possibly uninhabited islands will ever be known; nor is there much detailed information about events which occurred during that period or when the inhabitants of the islands first came in contact with foreigners.

During the early 1700s, Hawaiians were people with no knowledge of written communications. They preserved their history in chants and legends. Much of it has disappeared along with the deaths of priests or experts (referred to as Kahunas), and their successors, who for centuries passed historical knowledge by way of chants and legends through succeeding generations. Beginning from a traditional Polynesian society, Hawaiian society developed gradually through an almost bewildering series of cultural and social events that ultimately included external contact with western technology and ideas. The population decline, massive immigration of non-Polynesians, overthrow of the monarchy, the annexation as a U.S. Territory, and World War II led to statehood and contributed to Hawaii's history.

During the period 1700-1800, Hawaii's history of assimilating people of different nationalities was unequalled by any other state in the union. Today, about 40 percent of the marriages in the state are between people of different nationalities. Hawaii's culture still retains aspects of its Polynesian heritage, along with an unmistakable Oriental influence. Native Hawaiians have always felt unique and different from their mainland cousins; however, this sense of uniqueness is now being endangered by rapid economic



development, urbanization and increased population growth, which threaten to erode Hawaii's romantic charm and natural beauty. Since statehood, strong feelings of ethnic identity and the striving for legal rights among the ethnic Hawaiians have surfaced. Today, this movement includes people from other ethnic backgrounds who share the same interests and concerns. I am one who is determined to discover all of my family ancestry and would like to share some of it with you.

To explain my ancestral roots, it is important to note that ancient Hawaiians had a very close system of family ties and traditions, which included the raising of children other than their own, or the "Hanai System". The Hanai System employed a form of adoption to care for someone else's child, not necessarily blood kin siblings, but might include children of strangers and friends alike. Although this form of adoption does not constitute a legal right as we know it today, it is very binding, and never, ever broken. In this respect, my dad, Charles Ikaika, (pronounced phonetically EEKA-EEKA) lived with his natural parents in Honolulu, Hawaii up until the age of 3. He was one of those children who was adopted under the Hanai System. Why he was put up for adoption is not known. What is known is that he lived with his adoptive parents in the country in a place named Waianae, which is located outside of Honolulu. It was his legacy to be known as Charles Ikaika, which is his natural birth name.

Due to causes unknown to me, or perhaps pressures of the structured rural life study of his Hanai parents, he eventually struck out on his own seeking to become more independent. Eventually, this independence led him into the military during the early war years of the '40s. During this period, it was considered socially unacceptable among the

ruling White American class, or "Haoles" (literally translated, means foreigners) to have a name that could be construed as being from a non-American origin. Japanese Americans, for instance, were openly discriminated against. This discriminatory practice also included native Hawaiians, even though they were Americans. Thus, Charles Ikaika was placed under considerable pressure, due to the prevailing pro-American patriotism, to change his name prior to being allowed to enlist in the U.S. Army. My father was subsequently granted permission by the governor of what was then the territory of Hawaii, United States of America, to officially change his name. He officially became Charles Ikaika Strong (which is actually a translation change; Ikaika translates to the word Strong in polynesian), a name which in time would have a great change in my own life as Dwayne Asao Strong.

Following his discharge from the military and on assuming a civilian life in the community, he was known and accepted by his friends, family, and acquaintances under his new name of Charles Ikaika Strong. Eventually, he married an American of Japanese ancestry and raised three children, who were also identified with the name of Strong.

Throughout my life, up to and including the present, I have always considered myself as Dwayne Asao Strong...(Asao meaning, in Japanese, "Born in the Morning"). From my youth, I was encouraged and groomed by my dad to appreciate the talents and cultural aspects of my Asian-Pacific heritage. He asserted much influence in the teachings of the Polynesian music, which included songs, dances, and instrumental playing. Soon, I became very adept in the basic fundamentals of those arts and pursued them with vigor and became a professional entertainer. Because I was a featured Fire Knife Dancer, I was given the stage name of Manu Lele, which translated means "Flying Bird".

While performing as a fire knife dancer, my dad and I traveled extensively, throughout Hawaii and Polynesia with various groups of performers, ranging from show companies, assorted artisans, and officials. We also traveled and toured throughout the Continental United States and Japan, performing at hotels, nightclubs and state functions.

On my second tour of duty in the Washington, D.C. area, principally in Virginia, I happened to come in contact with Mahina Bailey and his Polynesian company, commonly

See NAME pg 7

SACS from pg 1

The importance of being a member in good standing with SACS is one of prestige for the School, a continuing program of improvement with the help of external evaluation, and the ability of course graduates to gain credit for their course work in degree programs at colleges and universities throughout the United States. With the success of this visit and continued excellence on our part, we are assured that these benefits will continue for at least the next five years—our next accreditation evaluation.

Dr. Nix and Mr. Salazar were pleased with the courtesy and cooperation demonstrated by everyone with whom they came in contact and felt that the members of the School staff and faculty are extremely professional.

My compliments to each of you and a tremendous "Thank you!" to all who assisted in this enormous undertaking.

ALIGNMENT from pg 2

affected by specific reductions will be given the opportunity to be registered in the Department of Defense priority placement program with priority rights for other vacant positions in DoD. Affected employees will also be registered in the OPM displaced employee program, through which they will be given priority consideration for vacancies in other Federal agencies. Displaced employees may also request that their names be placed on civil service registers, in regular order, even though the examination is closed. Individual agencies will be contacted to arrange for placement consideration of affected personnel. Employees facing separation will be given assistance in locating jobs in the private sector, through the Department of Labor and local state employment services. Separated employees who did not decline an offer will be placed on the DMA reemployment priority list, and given priority consideration in filling DMA vacancies in the commuting area for which they are qualified.

NAME from pg 6

referred to as a Halau. Through this Halau, I was able to become more aware of my cultural heritage, the music, dances, and interpretations.

Through this fusion of cultural experiences, I began to strengthen my ties, not only to my past and family heritage but to my present and future identity, as a native Hawaiian. In time, this source of identity inspired me to become more aware of my family's lineage, which is the Ikaika bloodline. With this in mind and in spirit and in honor of my ancestors of Ikaika bloodlines, I felt determined to maintain the strength and the "Mana" (or power, as translated in Hawaiian) to pursue this further.

Consequently, as a result of my determination and to bring back the original translation of "Strong", I have changed my name to its rightful and actual name of Ikaika. There is more that I have uncovered of my family's geneology and I plan to continue further explorations, rediscovering truths and satisfying my personal feelings of life in the past, present, and future.

What's in a name? Pride, Heritage, Honor, Comprehension-- to name a few!!!

E KOKUA MAI MAHINA O IAIKAIKA, MAHALO NUI LOA



Deputy Director CDR Daniel F. Duddy administers the reenlistment oath to LI1 John E. Curtis in front of the Lone Sailor statue at the Navy Memorial, Washington D.C.

DMS Cagers Finish Season

by SSG Ted Mohn

Our DMS Over-30 basketball team ended their season with a thrilling one-point loss against arch rival, BRDEC. Throughout the season, prior commitments and injuries prevented many of our players from competing in a majority of the games. However, a nucleus of Jeff Hamn and Henry Garcia (Guards), Joe Quigley and Bob Sowards (Forwards), and Mike Jolly (Center) provided some impressive statistics.

A quick summary shows that Henry and Joe together accounted for 51 percent of our total offense. Against Davison Army Airfield, they combined for 28 of the team's 36 points (78 percent of the offense). Bob and Mike snagged a majority of our rebounds while Jeff was stealing the ball from unsuspecting opponents. Jeff and Henry made 11 and 14 three-point field goals respectively, while Bob added three of his own. Joe repeatedly beat his defender on the baseline with a quick headfake or spinning move resulting in lay-ups. Bob and Mike used their strength to score inside or simply take the open jumper.

These personal and team accomplishments reflect a lot of effort and DMS esprit de corps. Team roster and statistics:

Henry Garcia	10 games	10.3	(3-point bombs)
Joe Quigley	9 games	9.3	(excellent passer)
Allen Leatham	6 games	5.5	(quick scorer)
Jeff Hamn	9 games	5.4	(tenacious defense)
Capt Reed	4 games	4.8	(strong rebounds)
Bob Sowards	10 games	4.3	(pure hustle)
Mike Jolly	9 games	3.0	(physical player)
Brian Henderson	5 games	3.0	(shot blocker)
Tom Kidney	5 games	2.0	(pick setter)
Bill Belokon	2 games	2.0	(follow-up score)

Congratulations and a job well done! Dep sez, "Thanks from all of us DMSers for the fine representation!"

Director's Call

PROMOTIONS

Department of Graphic Arts

To Sergeant First Class

SSG Preston A. Bayne (USA)

SSG Phillip B. Herr (USA)

SSG Dwayne A.M. Ikaika (USA)

Department of

Geographic Sciences

To Gunnery Sergeant

SSgt Brian K. Henderson (USMC)

AWARDS

Military

Department of

Management and Technology

Defense Meritorious Service

Medal

Capt Michael R. Reading (USA)

Joint Service Achievement

Medal

Capt Andrey Aristov (USAF)

Capt David A. Brumbaugh (USAF)

DPI Calvin Lloyd (USN)

Department of

Geographic Sciences

Defense Meritorious Service

Medal

WOC Robert B. Murphy (USA)

Civilian

Office of Mission Support

Outstanding Performance

Certificate

Dennis T. Roberts

MASTER INSTRUCTOR CERTIFICATE

Department of

Geographic Sciences

SFC Paul Swartz (USA)

SENIOR INSTRUCTOR CERTIFICATE

Department of

Geographic Sciences

SSG Susan L. Fortune (USA)

CONTOUR

ARRIVALS

Department of
Geographic Sciences

GySgt Jeffrey D. Pauley (USMC)

DEPARTURES

Military

Office of Mission Support

SSgt David W. Lawrence (USAF)

Civilian

Department of

Management and Technology

Mary A. Troy

Instructor's Son Wins Geography Bee

Ryan W. Polk, son of GAP Instructor William A. Polk, was the recent winner of a school-level geography bee, the first round in the annual National Geography Bee. An 8th grade student at Mother Seton School, Emmitsburg, MD, Ryan then took and passed the written geographical test qualifying him to participate at the state level and giving him a chance at a \$25,000 college scholarship. Congratulations, Ryan!

The National Geographic Society developed the Bee in response to a growing concern about the lack of geographical knowledge among the Nation's young people. A 10-country Gallup Survey conducted for the Society revealed that young people in the United States, ages 18-24, knew less about geography than youth of that age group in any of the other countries surveyed.

Defense Mapping Agency Defense Mapping School Fort Belvoir, VA 22060-5828

Official Business

Sasmoy

Awards

Announced



"There were many highly qualified nominees and the competition was close. While not everyone could be a winner, the accomplishments and achievements of all nominees deserve high praise," so said DMA director Major General Robert F. Durkin as he announced the winners of the DMA Soldier, Airman, Sailor/Marine of the Year Awards for 1989.

Congratulations to:

Outstanding Senior Officer of the Year - Major Archie L. Moberly, USAF, HQ DMA(PPA).

Outstanding Junior Officer of the Year - Captain Anthony L. Scafidi, USAF, DMAAC.

Outstanding Soldier of the Year, Senior Enlisted Category - SFC Richard E. Rivera, USA, Defense Mapping School.

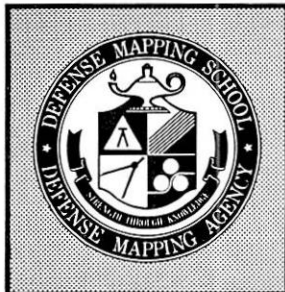
Outstanding Soldier of the Year, Junior Enlisted Category - SSG Michael De Freitas, USA, HQ DMA(POM).

Outstanding Airman of the Year, Senior Enlisted Category - MSgt Mark A. Green, USAF, DMAAC.

Outstanding Airman of the Year, Junior Enlisted Category - SSgt Karen M. Kelson, USAF, DMACSC, Europe Office.

Outstanding Sailor/Marine of the Year, Senior Enlisted Category - GySgt Werner V. Hofer, USMC, DMS.

Outstanding Sailor/Marine of the Year, Junior Enlisted Category - QM1 Tommy F. Burnett, USN, DMACSC Naples Detachment.



Defense Mapping School

CONTOUR

Volume 17, Number 8

May 1990



SFC Jose A. Pereira

New Horizons For Army "Charlies" (81Cs)

by SFC Jose A. Pereira

For all of you "Charlies," I have good news—but first some bad news. With new TOE versions approved, the ranks of the cartographer MOS are dwindling. We're losing all carto warrant officers and significant numbers of carto specialists of all other ranks. Many have changed to other MOSs; others have decided to leave the Army. But what about those who are still out there filling the remaining carto slots?

We all know there remains a very valid map revision and update mission using conventional techniques of compilation, color separation and quality control. But that's not the end of the road for us "Charlies." Actually, it is the beginning of a new and exciting mission which is ours if we take the initiative now. It is called Automated Cartography (AutoCarto). We have inherited a new challenge in applying the conventional techniques to the AutoCarto world. Recent talks with the Department of Topographic Engineering at the U.S. Army Engineer School indicate that by FY 91 there will be a task site

board discussion about which tasks to incorporate from AutoCarto technology into our MOS.

How can we make this happen? First, we must understand that digital spatial data consists of layers or themes of data stored in a computer just like color separates are stored in a map flat. Any or all of these layers can be retrieved from the data base to create desired products.

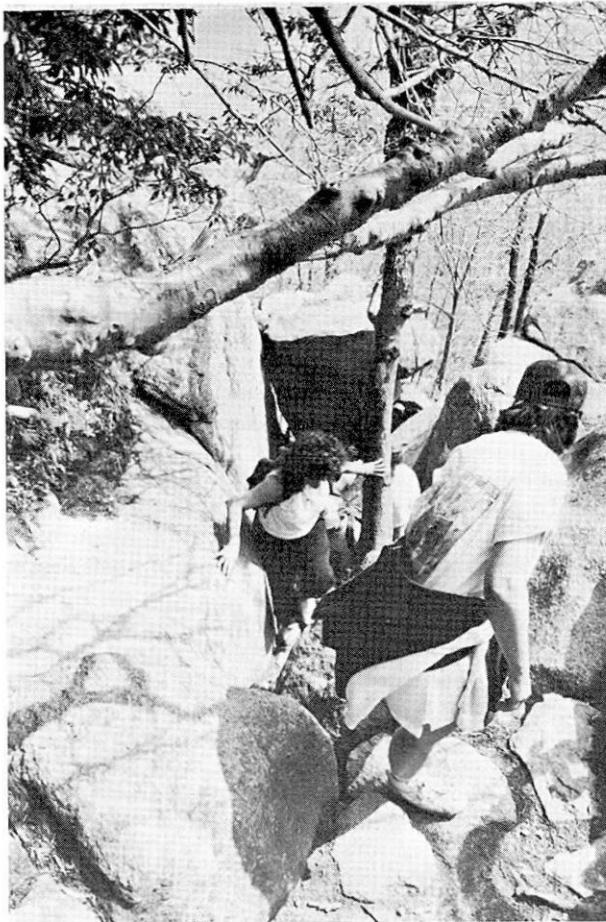
In the compilation process, we get map flats we need from the data base. If a new overlay is required, we make it through the color separation process. Then a quality check is made. In the AutoCarto arena, the same process occurs. We input into the computer existing data layers; if new layers of data are required, we digitize these layers using manual digitizing or scanning techniques. AutoCarto compilation and color separation requires a new expertise for cartographers performing data input and for those who make the quality control checks.

Revisions to color separates in the digital data base can easily be made in a fraction of the time it took using conventional methods. We can also use multispectral imagery (MSI). MSI is now widely used for updating existing digital maps because it is a very current source for land use/land cover information. The new skills we must learn are Multispectral Image Processing and Geographic Information Systems (GIS) techniques.

Where are we going to learn these new skills? It all begins at the "Schoolhouse". We must begin teaching these skills at the very basic cartographic level here at DMS. Carto personnel in advanced courses should learn the more advanced techniques of GIS and MSI taught with a management perspective. Having these skills will allow us to efficiently support the combat commander and his staff in making good decisions based on innovative and reliable products.

Techniques have changed, but our mission is stronger than ever. With an increasing demand for spatial digital data, quick map updates, new and varied products that we never dreamed of doing manually, we must populate the field with trained AutoCarto specialists and managers, and the sooner the better.





We Went to the Mountain!

by SGM John S. Dodge III

On 1 May, DMS once again conducted an "adventure outing" with a hike up scenic Old Rag mountain. This is the second consecutive year for the morale and team spirit-building event. Over 80 people, representing all segments of the DMS family, participated and our Sergeant Major files the following after-action report.

'Twas the first day of May and all through the woods.....

No! It was not a fairy tale; it really happened! The adventurous element of DMS, consisting of soldiers, Marines, sailors, airmen and a civilian contingent, massed at 0900 hours at the FEBA (First Emerging Blisters Area).

All terrain analysis had been accomplished and the recon had been done (see after-action report "Old Rag I").

Attack of the objective commenced sharply sometime between 0930 and 0945. Weapons (bug bombs) were not necessary, though numerous butterflies buzzed our heads and some minor injuries were inflicted by little bitty biting flies (LBBFs). No Purple Hearts issued.

Some of the initial wave was caught and passed, since a few over-revving individual propulsion units became overheated and fatigued, but once the early morning humidity abated and the temperature lowered, the battle was quickly resumed.

After exactly two and a half hours, give or take 30 minutes, the crest of the mountain was occupied by the TOTAL FORCE and without loss of a single person (water jugs and candy bars excluded).

The leader of the assault (The Old Man) mustered the unit and lavish amounts of recognition was levied on select individuals; all were commended on the accomplishment of the mission.

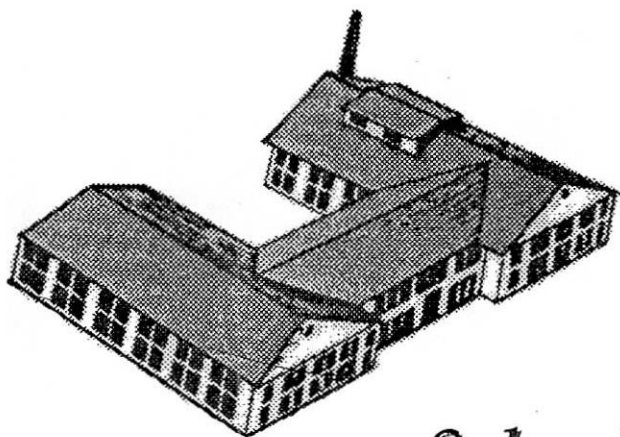
Chow was consumed (if you hadn't eaten it already or if you had strength to chew).

Shortly, varied size increments began their descent, using the least-tasking sections of the trail.

Back at the Motor Pool, a well-disguised "Roach Coach" distributed sodas, candy and the infamous "Old Rag II T-Shirt" (available ONLY to those poor souls who had endured the challenges and lived to tell about it).



Photos by Nick Mosura



From the Schoolhouse

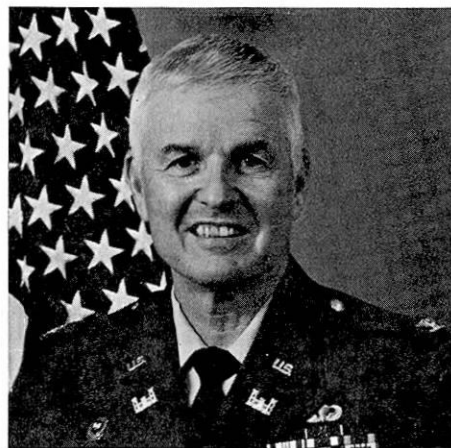
Last year in May 1989, I used this column to record my views on the results of a Defense Mapping Agency Offsite Meeting. From 17-20 April 1990, our Technical Director Bill Revell and I attended a more recent agency wide offsite. There were similarities between the 1989 and 1990 offsites. Both had the same central purpose; namely, to provide an opportunity for the senior leadership of the agency to evaluate the major factors affecting DMA and set an appropriate course for the future. The setting for both conferences contributed to team building and the frank exchange of viewpoints. As you might expect, however, there were significant differences in content between this year's offsite and last year's offsite.

Last year, I had an opportunity to update senior management on the overall status of

our School. I gave a briefing which included mission accomplishment in terms of students taught and newly developed courses. I also got to do some bragging about our staff and faculty and to argue for the preservation of resources needed to execute our mission. This year, my briefing was more focused. It concentrated on our plans for dealing with the impact of agency reorganization and reduction in staff size. Most of the participants in this year's offsite conference spent more time listening than talking because we wanted to hear guidance we could use for planning.

A major theme we heard repeatedly was the theme of rapid change. One briefer used the analogy of "permanent white water" to describe the planning environment. Examples of change appear to be especially numerous these days. The Challenger just launched the Hubble space telescope, which represents another major technological breakthrough. East and West Germany have agreed on the value of the mark to pave the way for reunification. Congress continues to spar with the Administration about the size and composition of the Department of Defense. The sparring generates uncertainty about the way change will impact DMA and DMS soon and later.

We heard from the Honorable David S. C. Chu, Assistant Secretary of Defense, Program Analysis and Evaluation, Mr. Donald B. Shycoff, Principal Deputy Controller, OSD, and Mr. Frank P. Cipolla, Acting Deputy Assistant Secretary, Civilian Personnel Policy, OSD. Dr. Chu advised us to move in the direction of reimbursable services. Under such an approach, the users of MC&G products would pay DMA to produce what they



Colonel Daniel R. Clark
Director
Defense Mapping School

needed. Mr. Shycoff stressed the DoD drive to cut costs and establish unit prices for products and services. Mr. Cipolla stressed the DoD intent to downsize humanely. He observed that DoD organizational structures of the future are likely to be flatter and characterized by fewer levels of supervision and greater spans of control. None of the external briefers from the Department of Defense could be specific about the size of the Defense budget in years ahead or about the size of the Department of Defense work force. There did seem to be general agreement that the DoD would be "building down" and that by 1995 DoD might well be between one-quarter and one-third smaller than it is today.

The Defense Mapping School is in a strong position to deal effectively with change. We certainly have the ability to cost our tuition because we routinely do that for courses related to foreign military sales. Indeed, some of our services are already reimbursable under that program. We are working with the DMA Headquarters staff to accommodate reorganization with minimum adverse impacts. As we do what is necessary to accommodate change, I will keep the staff and faculty of DMS fully informed but I will not speculate about decisions yet to be made. We will have to tolerate some collective frustration as long as the vision of the future remains somewhat unclear. That is preferable in my judgment to making a series of false starts or to performing detailed planning work that will need to be done over. Our best course of action now is to continue our highly effective performance and our responsive satisfaction of user needs.

DMA Director's Retirement Announced

The DMA Director, Air Force Major General Robert F. Durkin, has announced his retirement from active military service effective July 1, 1990.

Selected to replace General Durkin as DMA Director is Air Force Major General William K. James. General James currently serves as Deputy Commander in Chief, United States Southern Command, Panama.

MT Chief Gives Closeout Report

by LTC Louis R. DeSanzo

Editor's Note: LTC Louis DeSanzo came to DMS in January '86 as Chief of the Joint Operations Division in the Management and Technology Department. He became Chief of MT in December '87. He leaves DMS this month for a three-year tour with the NATO staff of Allied Forces Southern Command. He will be greatly missed.

As my DMS tour draws to a close, I want to capitalize on the wide coverage enjoyed by the CONTOUR to thank all who made this assignment so enjoyable and rewarding. All of you—officers, noncommissioned officers, and civilians—were active participants in the Department of Management and Technology success story.

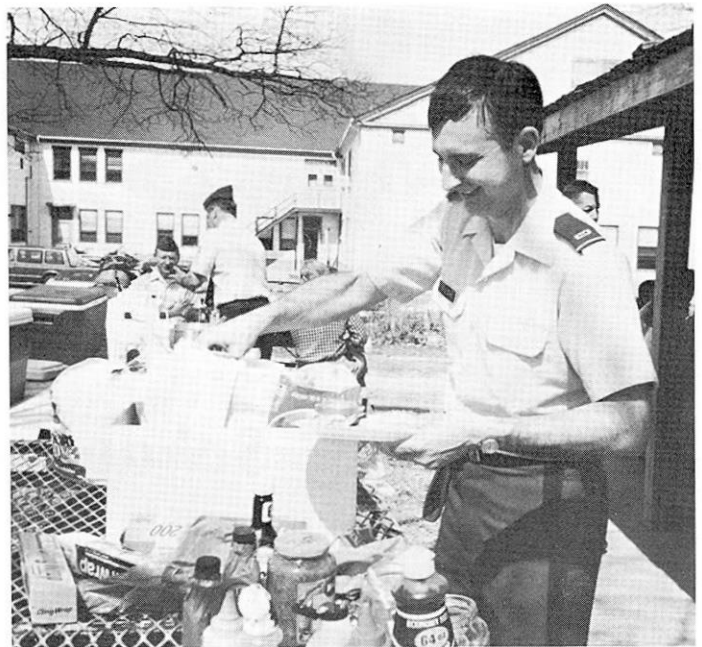
In January of 1986, a small group of us met to chart (no pun intended) future programs. We resolved to be more proactive, to create new courses where the need existed, and to take our courses on the road to audiences who could not come to DMS. Over the years, many of you came and went, contributing your own special abilities to the mission. Obsolete programs were cancelled, existing programs improved and new programs fostered. You did your jobs, and did them well, radically influencing the image and operating philosophy of the department and the School.

Today, DMS is recognized throughout DMA and around the world as a vital, active player in all phases of MC&G. We offer the only substantial resident multispectral imagery course and geographic information systems course in DoD. We even reach out to the operational level, assisting MC&G product users through our MC&G Impact on Combat Operations (MICO) course. Our mobile training teams are everywhere. We pioneered the APPS media upgrade program, and drove the development, in conjunction with DIA, of the widely distributed Coordinates Selection Guide.

I am pleased to report that what you started is being left in capable hands. There is always more to be done, and the team currently on-board is meeting challenges head-on. I predict that DMS, and particularly MT programs, will continue to flourish and that each of you will be proud to have been a part of that growth.

I have left many assignments in the past 20 years, and found myself making the customary statement that "I will miss this place." It is one thing to say those words, but quite another to feel them in your heart. DMS has a way of growing on you. I have never felt so deeply attached to people or programs in my career. Your presence and untiring efforts have given me that sincere feeling—thanks to all past and present!

For those of you who don't know, the family and I are off to Naples, Italy for a three-year tour with the NATO staff at Allied Forces Southern Command, where I will be Chief of the Geographics Section. Come see us. "Arrivederci."



CW3 Edwin Huth loads up his plate at the "We Survived SACS" luncheon.

GS Survives SACS

by MSG Herbert C. Schmeling

CCD? Check! TADB's? Check! Exams? Check! Lesson Plans? Check! Party? Check! And Double Checked!

As the SACS visit came to a favorable conclusion, it just seemed like the thing to do.

Give the Department of Geographic Science "family" a reason to celebrate and TSgt Lobdell, the "Party Hearty" caterer, will put it together in a flash.

Through the efforts of Major Thompson, CW4 Besch, Capt Reed, and MSG Whitfield on the grill, over 160 "burgers and dogs" were cooked in short order. Chief "Flipper" Besch took this event as his opportunity to perfect his new edible creation, the 1-Minute, flame-broiled "Thermal Nuclear Surprise" burger, with or without cheese.

In less than 45 minutes, the "charcoal broilers" fed approximately 60 hungry GSers and their guests.

Col Clark capped off the noontime affair by officiating at the "We Survived SACS" cake-cutting ceremony. Dessert anyone?

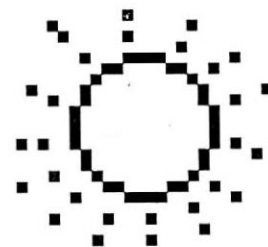
In all, the barbecue luncheon was a delightful treat for department personnel.

"The heritage of freedom must be guarded as carefully in peace as it was in war. Faith, not suspicion, must be the key to our relationships. Sacrifice, not selfishness, must be the eternal price of liberty. Vigilance, not appeasement, is the byword of living freedoms."

—Gen. Omar N. Bradley, 1950

Any Time is Vacation Time

by Pat Hausafus



Everyone looks forward to a vacation, especially when it's the middle of winter and 30 degrees outside. Finally, a week before leaving, you're in a mad scramble to check and double-check all the little things you may forget and suddenly remember when you're a thousand miles away; such as, reminding the neighbors they promised to feed the cats two months ago; making sure you give them a set of house keys (to your house—not your parents' or another neighbor's) and emphasize you will bring them back a surprise for their inconvenience; making sure you stick a note on the refrigerator to remind yourself to see that all the doors and windows are locked; and, lastly, checking the stove just before walking out the door for the last time.

There are other minor items that need attention—like being sure to pack exactly 14 pairs of socks and “drawers” for your husband so that you don't have to make a special trip to the Laundromat and ruin a few hours of precious vacation time. After all, you owe it to yourself to try to enjoy every single minute, and washing dirty socks and “drawers” is definitely not enjoyable!

At last, you're on your way—a little weary, slightly exhausted, but you're on the road now speeding to your destination (it's hard to keep that speedometer down). As each mile passes by, you're gaining some of that lost energy and starting to think of all the things you want to see and do in the land of sand, sun, and fun—Florida.

We stayed in St. Augustine, which was established September 8, 1565 by Pedro Menéndez de Aviles for King Philip II of Spain. We visited many of the historic sights in the area, including the Fountain of Youth found by Juan Ponce de Leon. He discovered Florida in 1513 and gave the state its name, meaning “full of flowers.”

We also visited some not-so-historical sights, such as Ripley's Believe It or Not. There were many interesting, unusual, odd, and grotesque exhibits to see. One that comes to mind is the elderly gentlemen taking a picture of his elderly wife. They look so real that it is only after you have excused yourself because you walk between them that you realize they are dummies; you glance around, hoping no one has seen the real live “dummy.”

Another exhibit featured a movie showing people who



can do strange things with their tongues, such as touching their noses or turning it side to side. They even had a mirror in a little alcove next to the movie inviting you to give it a try. Needless to say, I couldn't do it, but I sure tried! After winding my way around and through several more exhibits, I came upon a crowd of people laughing and pointing at an exhibit before them; some even had cameras. Sure enough, there was a nice little old lady sticking out and twisting her tongue at us.

If you enjoy shopping, you'll love St. Augustine. They have a street at least a mile long lined with shops on both sides. This street is closed to traffic so you can just casually stroll and browse, or hurry through as many shops as possible in a day.

St. Augustine was a totally delightful city to visit and tour and well worth a return trip.



CONTOUR



5



May 1990



Captain George Makridis concentrates during a Basic Cartography test at DMS.

GPS and Measurements in Greece

by Captain George Makridis

Editor's Note: Captain George Makridis, from Patras, Greece, has been stationed in Athens with the Hellenic Army Geographical Service for 10 years. Prior to this, he was with the Greek Infantry as a company commander. Captain Makridis was sent to Athens Polytechnical University where he studied survey engineering and was assigned to the Topographic Service. He enrolled in the DMS Basic Cartography Class in January this year and graduated on 3 April.

During the last four years, the Greek Geodetic and Geophysics Committee, in cooperation with the Geographical Army Service and the Universities of Athens, Cambridge, New Castle, Zurich and Karlsruhe, has developed, organized and maintained measurements using the Global Positioning System (GPS). The main purpose for this effort was to detect the movements of the tectonic plates and find an answer to a problem that is well-known to Californians, especially those in the San Francisco Bay area—THE EARTHQUAKE! But why GPS? Because it can also be used in many other ways. The GPS was designed to meet some specific military requirements. Because of the downing of a Korean airliner over Soviet airspace several years ago, the Department of Defense made the GPS signals available to the civilian community for better navigation, but it reserved the right to control GPS as it does any other radio navigation system in periods of national emergency. GPS works by simultaneously measuring the distance from a GPS receiver to each of several GPS satellites. At present, there are 11 satellites in orbit and another six are set for launch in 1990; also, there are about 50 manufacturers of GPS receivers.

The Differential GPS measurements have the highest accuracy (1mm) in surveying between fixed points depending on adjustments for system errors. It is clear that GPS is ideal for measuring distances between points located on the tectonic plates. The Greek fault system

and the California fault system are only two of several earthquake-prone areas around the world where scientists have been using the GPS for the past four years. During the last year, I participated in two campaigns for GPS measurements in Central Greece from June 1 to June 15 and across the Ionian Islands from September 4 to September 18. In these two campaigns, about 150 points were measured. The network was carefully designed by Professor Charis Billiris, head of the Department of Space Geodesy at the University of Athens, and Professor Paul Gross, head of the Department of Surveying at the University of New Castle.

Before starting the measurements, a group of scientists selected exact sites of the GPS points on rocky areas and anchored the main monument disk and three other smaller disks perimetric in a distance of about 15-30 feet. They selected locations of GPS points that ensured good all-around visibility of the sky with no obstructions above 20 degrees vertical angle. They avoided sites with potential multipath signal problems from nearby structures.

Everyone who participated in the campaign had a meeting three days before "0" (zero) day. They had to prepare their instruments, making an adjustment measurement altogether. They also took information about the whole plan and, finally, divided into groups of two. Each group was responsible for being on time for measurements for each point.

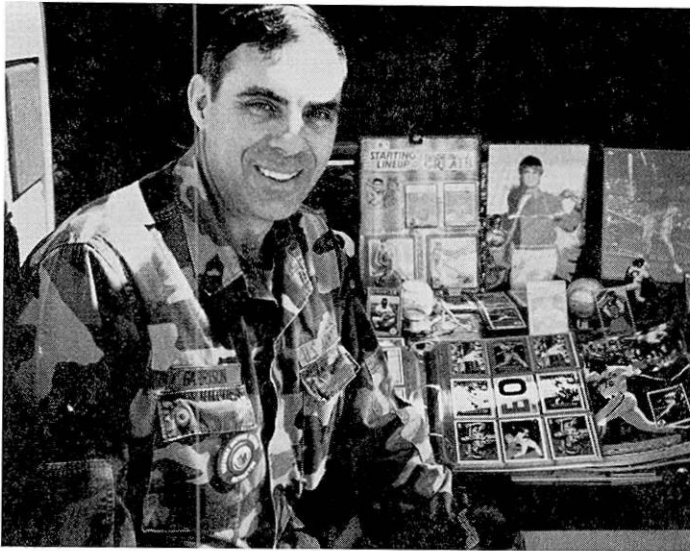
A day before starting measurements, the group left for the first point. There were 10 groups in each campaign and each group had its own car, GPS receiver (Wild-Magnavox 101 or 102), tripod, antenna, 12-volt batteries, one Wild T-2 Theodolite, one Wild N-2 level and one rod, one altimeter, one electronic instrument for measuring temperatures and humidity, and one tape for distances. Each group had to take measurements for about five hours daily and for two to four days on each point, depending on the schedule. The "window" for the satellites in Greece was from 9 o'clock in the morning to 2 o'clock in the afternoon in June and from 4 o'clock in the morning to 9 o'clock in September. After the first day, we started taking measurements four minutes earlier each day.

Special attention was paid to centering the GPS antenna over the observed point and to the measurement of antenna height. The antenna height was checked and recorded by the observer at the beginning and at the end of the measurements to ensure this agreed within a millimeter. After starting the measurements, we took meteorological data every half hour. We checked the operation of the receiver from time to time. By the first hour of measurements, we had four satellites in our receiver; for the next three hours, we had five satellites; and in the last hour, we, again, had four satellites. After finishing the measurements on each point, we measured horizontal angles, distances and heights from the central point to the three perimetric points, so we had data for three other points.

Upon arrival in Athens, all the groups took measurements for another adjustment of the receivers. All data was collected and the process started for computation of coordinates and distances among the points.

In the future, long-term installations of GPS receivers could provide researchers with a more comprehensive picture of the area's crustal motion and deformation. It could also help scientists sort out the true precursor indications of an earthquake from other geophysical data and, therefore, eventually contribute to earthquake prediction.

After years of planning and speculation, 1990 appears to be the year when GPS attains escape velocity from its developmental phase and becomes an operational reality.



SFC Dollen J. Garrison exhibits some of the items from his baseball collection.

“Rocky” Enjoys All-American Hobby

by LIC Robert Sowards

“I’ve collected baseball cards most of my life” says Dollen Garrison, an instructor at the Defense Mapping School, known as “Rocky” by his friends and fellow instructors.

People collect a wide range of things—children collect rocks; teenagers collect records. My wife likes to collect bells, my aunt, spoons, and for some, perhaps it’s Elvis memorabilia or coins. But baseball cards are Rocky’s passion, and with a collection of over 100,000 cards, “passion” may be an understatement. He began collecting them at a young age, receiving his first card in 1954 or 55.

What possesses a person to be a collector? A dozen or so bells, a couple hundred spoons, these I can comprehend, but more than 100,000 baseball cards—that’s a lot of bubble gum!

The interest and fascination about baseball that ran rampant in his life as a youngster slowed down in 1965 when he enlisted in the U.S. Army. It picked back up in the mid ‘70s, and to this day is going strong.

“Collecting baseball cards is a big part of my life” Rocky states, “In fact, it is a habit I enjoy and wouldn’t want to live without.”

It’s easier now than in years past to obtain baseball cards; people can go to baseball card stores and card conventions. There are other options also, e.g., ads in newspapers or trading with other collectors.

Since 1980, Rocky has purchased a complete set of player cards of his favorite team, the Kansas City Royals, which cost him \$150.

It’s not only baseball cards that Rocky enjoys collecting—it’s other baseball-related paraphernalia, such as, players’ signatures, photographs, autographed photos and baseballs.

“I have an old photograph of Micky Mantle and Joe Dimaggio that would be worth some money if I only could get them to sign it.” said Rocky.

Although his interest in baseball cards is mostly for hobby, he states, “There is money to be made, and lots of it, if you have the right cards.” He goes on to say, “I’ve got cards ranging from one cent to \$300 or more. My two most expensive cards are a Ben McDonald error card worth about \$200, and an old Roger Maris card worth about \$300.

Rocky convinced me that there’s a big difference in having baseball cards and collecting them. A person who collects cards takes better care of his/her collection; finds a system to file the cards; and sometimes protects them by covering them with plastic. People who just have cards aren’t this way; they tend to throw their cards in a drawer somewhere, where they become damaged, causing them to lose their value.

Rocky’s main interest now is not to collect individual cards as in the past, but to collect complete team sets. By doing this, he says, “Maybe in 10 or 20 years, these sets would be worth some money.”

Rocky’s collection doesn’t compare to some of his fellow collectors. For example, a friend in Alexandria has more than five million baseball cards.

Since Rocky’s earliest memory, collecting baseball cards has been fun. His lifelong dream is to retire from the Army, then find a job in major league baseball printing baseball cards and taking team photographs.

I asked Rocky if I could call him on Saturday. He replied, “Not between 10 o’clock and 3 o’clock; I’ll be at a baseball card convention!”

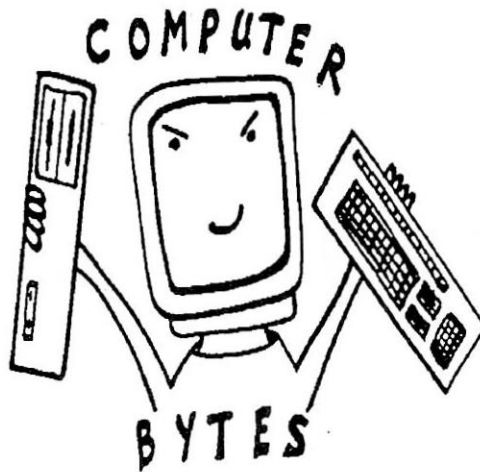
1990 Summer Pageant “The American Sailor”

The 1990 U.S. Navy summer pageant, “The American Sailor,” will be presented at the Washington Navy Yard, Wednesday evenings from 30 May to 5 September, except 4 and 25 July. The Navy Yard is located at Ninth and “M” Streets, S.E., The Navy Museum and display ship USS Barry (DD-933) will be open from 1800-2230 on pageant nights.

“The American Sailor”, an exciting pageant filled with music and live entertainment, depicts today’s modern sailor, historical past, and meaningful traditions. It begins at 2100 and lasts about one hour. Admission is free and ample parking is available on the Navy Yard at no charge. Food and refreshments are available at minimal cost in Willard Park on the waterfront prior to the pageant.

All members of the Navy community (military and civilian) in the National Capitol region are encouraged to participate and enjoy a summer’s evening of food, music and Navy history.

Reservations are strongly recommended. Contact the NDW Public Affairs Office at AUTOVON 288-2678/2218, commercial (202) 433-2218/2678.



by Jim Davidson

I am beginning a monthly column in the Contour to present items of interest and answer questions for the growing family of DMS microcomputer users. A question and answer section will appear in future issues. Send your computer-related questions to my attention in MT.

DMS Micro Resources

A recent study revealed that we have 130 microcomputers at the School. Almost half of them can be found in our five computer laboratories. Two labs are in the Department of Geographic Sciences, each with about a dozen personal computers. The Department of Management and Technology also has two labs, one with 13 personal computers and another with 16 laptop portable computers. A lab in the Department of Graphics Arts is used to learn the basics of desktop publishing (DTP). The Navy has provided new computers, laser printers, and scanners to help configure the facility. The instructors will soon begin teaching a DTP segment as part of the Navy/Air Force basic lithographer course. Desktop publishing is quickly catching on as an alternative for small printing and graphics requirements. Two Apple-compatible systems are also being used for DTP in the Department of Component Training and the Public Affairs Office. This issue of Contour was done entirely with DTP.

How to Request Assistance

A new easy-to-use form, "ADP Support Request" (DMS Form 7900-1), should be completed for requests for ADP assistance, from either DP1 Lloyd or me at the ADP Support Office. DMS Regulation 7900-1 provides guidance. After receiving the form in MT, we will first try to handle your computer needs in-house; then, if necessary, refer you to the DMA Systems Center Trouble Desk.

GETAMAP is on Line - A new version of DMA CSC map ordering software is now available. Included in GETAMAP 3

is a "paperless" ability to order maps, charts, and other MC&G products through a modem. Processing time is remarkably reduced. Future refinements will connect GETAMAP to the Defense Data Network. Your department/office supply representative can order DMA products by contacting MSgt Leatham, MT.

Computer Security Awareness - By now, all computer users and managers at DMS should have received Computer Security Awareness Training. Be sure to implement what you have learned. Computer security awareness should be made a part of your routine office activities. Several important points to remember: 1) Store data only on removable disks; 2) Do not put unapproved software into your computer; and 3) Report security violations to your local Information Systems Security Officer (ISSO).

Automated Forms - We will soon reach the age when filling out cumbersome carbon-interweaved forms by hand or typewriter will be obsolete. Several computer programs are now available to not only fill out forms on screen, but actually print the completed form. I am sure many of you will recognize "DD Forms 1351-2, 1556, and 1610." These forms are now available in automated format on diskette. Contact me for more information.

Software Training - Upcoming software training offered by MT is scheduled to include Advanced Multimate Wordprocessing (Special Topics), 29-31 May; and Enable Spreadsheets, 11-12 June. Contact your department office for more information.



Students Nieves Almelda (l) and Mercedes Hernandez, share the spotlight with Colonel Daniel R. Clark, (l) DMS Director, and Major A.G. Thompson, Chief, Department of Geographic Sciences, at graduation exercises for the inaugural class of the IAGS Division. Both graduates are from Venezuela

Use of the DMA Badge in the National Capital Region

The Consolidated Security Services Office (CSSO) advises that during normal duty hours (0600-1800 Monday through Friday), DMA employees may now use their DMA badge for access to all areas where a National Capital Region (NCR) badge was previously required. The NCR badge is needed for access at all other times.

This policy may not be clearly understood by all guards. If you attempt to enter the Pentagon (or other areas where the NCR badge is used) with your DMA badge and the guard denies you access, immediately contact CSSO on 285-9177 or you may directly contact the Defense Protective Service, Pentagon Operations Office, 697-4151.

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Finally!!!
Our "Real Thing"
DMS Picnic '90
6 July
Castle Club Park

\$3 per adult • Food
\$1 per child • Games
\$10 maximum • Contests
per family

0900 - 1100 Director's Call/Games
1100 - 1300 Lunch
1300 - 1500 Games



A Tale of Two Seasons

by MSG Herb C. Schmeling

Memorial Day May 28

When Jim Lobdell formed a DMS bowling team to replace a 610th team that had withdrawn from the Tuesday Night Intramural League, he had no idea that six months later DMS would make it to the "Final Eight." Not a bad accomplishment considering that DMS had to begin the season three weeks late and overcome a 16-point deficit they inherited.

On 3 October 1989, the long uphill climb began as DMS rolled in the weekly competition. By Christmas, the deficit grew to 40 points and DMS owned a proud 40 win/80 loss record. Then, over the holidays, some of the kglers decided it would be a good idea to roll some practice games. One of the team members even learned how to use the fingertip ball he had been using for the last 14 years!

The second half of the season commenced and strange things started to happen—the DMS team started to win points! As this occurred, the team became more jovial, even loose. When asked by an opponent what the letters DMS stood for, Jim replied, "Don't Mind Schmeling." DMS bolted out of the 22nd position (last place) and started to climb, winning 93 of 126 possible second-half points.

As the regular season came to a close on 24 April, DMS had compiled a respectable 133/123 won/loss record and finished in ninth place. But as fate would have it, the DMS season was not over. The sixth place team

announced that it could not field a team for the post roll-off and the DMS team found themselves bowling the "No. 1" team on 25 April.

The HHC 610th/DMS quarterfinal contest was closer than anyone would have predicted as the winner was not determined until the No. 4 bowlers had rolled in the 10th frame of the third and final game. Although there is no consolation in losing, DMS failed by only 29 total pins to reach the post-level semifinals. After the match, team captain Jim Lobdell commented, "Three other teams which had better records than us also 'lost'. I am proud of our accomplishments."

This year's team included: Mike Sepinski, Tom Kidney, Gerald Smith, Larry Shubat, Jim Lobdell, Ricky Durkin, and Herb Schmeling.

The team for next season will begin forming in late August. For more information, contact Jim Lobdell.

As a postscript: Tom Kidney and Mike Sepinski earned berths on the Fort Belvoir bowling team. Congratulations, Tom and Mike!

Secretary of Defense Memorial Day Message

Today, we pay tribute to those members of the Armed Forces who have died in defense of our country.

Each year, our observance of Memorial Day reminds us that the freedom we enjoy as Americans has not come easily. Valiant men and women of many generations have paid the ultimate price to secure it. The rows of white tombstones in our national military cemeteries give silent testimony to this fact.

The most fitting tribute we can give these fallen heroes is to reaffirm our devotion to the sacred trust for which they fought. You, the members of our Armed Forces, can take great pride in the qualities you share with those who have gone before—courage, professionalism and a steadfast commitment to freedom. We take great pride in you.

/s/ **Dick Cheney**
Secretary of Defense

Gunston Elementary Students Visit DMS

Editor's Note: April was The Month of the Military Child and children throughout the nation enjoyed the many and varied activities planned for them. On 24 April, the Defense Mapping School hosted a tour for 30-35 students, Grades 1, 2, and 3, from Gunston Elementary School. Some of the things they enjoyed about the tour are reflected in the following sampling of their letters to Colonel Clark, Director of DMS.

April 24, 1990

4-25-90

4-27-90

Dear Colonel Clark,

Thank you for letting us have a tour of the base. I liked everything in your mapping school. It was lot's of fun! One day I would like to come back to the mapping school.

Sincerely,
Carrie Stickles

Dear Col. Clark,

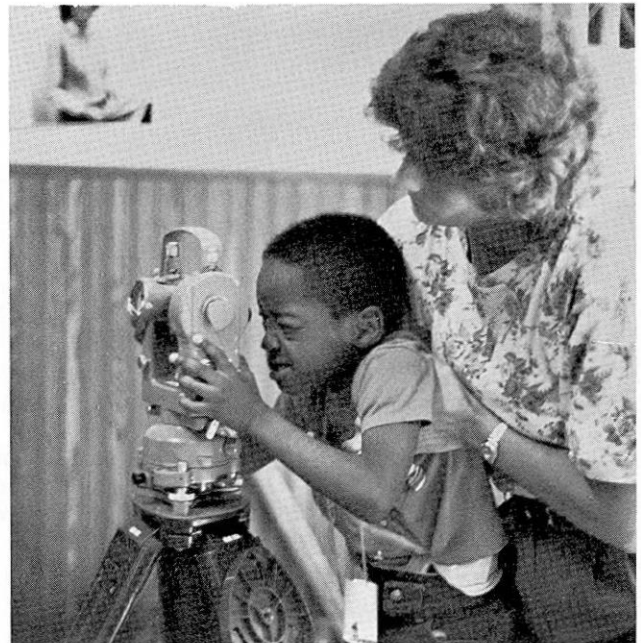
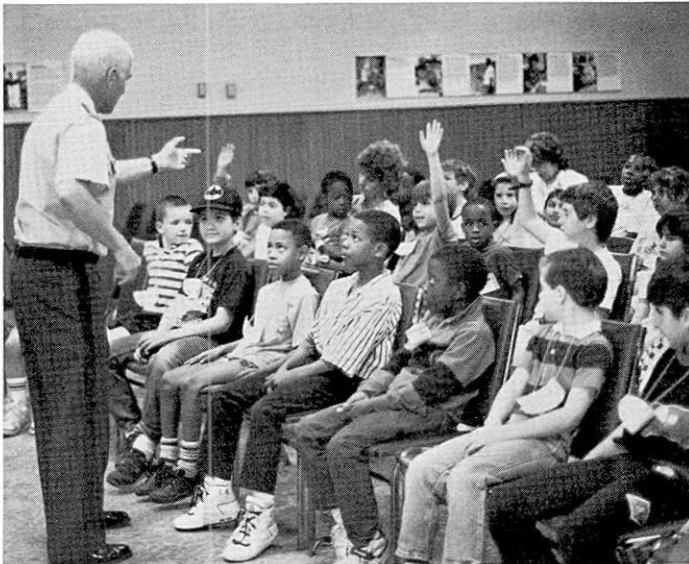
I would like to thank you for everything you did for us and especially for the awards. I hope I can come again. I hope you are my tour guide.

Your friend,
Christopher Lee Gunn
Gunston Elementary

Dear Col. Clark,

Thank you for letting us visit the Defense Mapping School. I liked seeing the printing press.

Your friend,
Hovig



(Top left) Hands pop up in response to Colonel Daniel R. Clark's questions during his briefing to the students. (Above) Teacher Cindy Johnson hoists Alfredo Lewis for a good look through surveying equipment. (Bottom left) SSG Rickey O. Lang explains the offset duplicator to teacher Rosemary Romine and her 3rd grade students.

DIRECTOR'S CALL

AWARDS

Military

LTC Louis R. DeSanzo (USA)
Department of Management
and Technology
Defense Meritorious Service Medal

Civilian

Nicholas Mosura
Office of Plans, Programs
and Operations
Outstanding Performance Certificate

NEW ARRIVALS

TSgt Bradford W. Clark (USAF)
Department of Geographic Sciences

SSG Herman J. Van de Vaarst(USA)
Department of Geographic Sciences

CWO3 Robert W. Lowman (USMC)
Department of Geographic Sciences

SSG Dale L. Crossett (USA)
Department of Geographic Sciences

SFC Norman J. Michaud (USA)
Office of Mission Support

SSgt Larry R. Johnson (USAF)
Office of Mission Support Logistics

DEPARTURES

Military

LTC Louis R. DeSanzo (USA)
Department of Management
and Technology

LtCol Charles A. Sakowicz (USMC)
Office of the Director

SFC Richard V. Corum (USA)
Office of Mission Support

LIC Leo Scully (USN)
Department of Graphic Arts

Civilian

Patricia A. Hausafus
Office of Mission Support

MASTER INSTRUCTOR CERTIFICATES

Military

MAJ Larry C. Shubat (USA)
Department of Management
and Technology

Capt David Brumbaugh (USAF)
Department of Management
and Technology

CPT Jonathan R. Clark (USA)
Department of Management
and Technology

Capt Michael R. Reading (USAF)
Department of Management
and Technology

CPT William P. Smith (USA)
Department of Management
and Technology

ISC Scott E. McDonald (USN)
Department of Management
and Technology

SFC Jose A. Pereira (USA)
Department of Management
and Technology

LIC Leo Scully (USN)
Department of Graphic Arts

Civilian

Robert Murphy
Department of Geographic Sciences



SENIOR INSTRUCTOR CERTIFICATE

Lt Col Robert J. Alcaparras (USAF)
Department of Management
and Technology

Capt Rickey I. Durkin (USAF)
Department of Management
and Technology

CPT Michael R. Mason (USA)
Department of Management
and Technology

MSG William C. Melen (USA)
Department of Geographic Sciences

SFC Kenneth J. Klopp (USA)
Department of Management
and Technology

LIC Don L. Carlson (USN)
Department of Graphic Arts

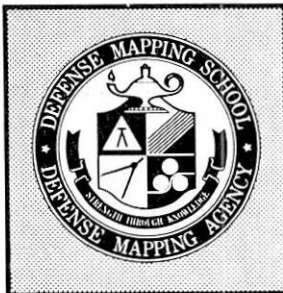
LI1 John E. Curtis (USN)
Department of Graphic Arts

SSG John F. Getshall (USA)
Department of Graphic Arts

SSG Lowell W. Haskin (USA)
Department of Graphic Arts

CERTIFICATE OF APPRECIATION

SGT Dorothy Hernandez (USA)
Department of Geographic Sciences

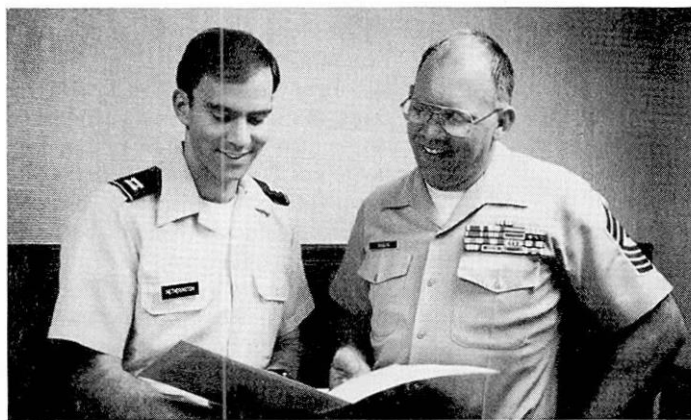


Defense Mapping School

CONTOUR

Volume 17, Number 9

June 1990



CPT Todd A. Hetherington (l) talks with his replacement, MGySgt Paul C. Mason, the new chief of the International Military Student Office.

DMS Assumes IMSO Mission

On 30 March 1990, the Defense Mapping School accepted from Headquarters Fort Belvoir the mission of operating the International Military Student Office (IMSO) at Fort Belvoir. IMSO joins DMS as a separate division (PPI) within the Office of Plans, Programs, and Operations. It is located in the basement of Building 211 (on 21st Street), telephone 664-3326/3633.

Formerly known as the International Student Detachment, IMSO is responsible for the administration and support of all foreign military and civilian student training at DMS and other Fort Belvoir activities. At any given time, IMSO may have students from 12 of the approximately 50 different countries participating in the Fort Belvoir training program. The Office provides transportation for the students to and from the airport, coordinates in-processing and billeting, and serves as their general point of contact during their stay at Fort Belvoir.

An important IMSO responsibility is conducting the Informational Program, designed to complement each student's formal training with a balanced understanding of U.S. society and institutions. This is done through tours to national monuments, capitol buildings, shopping centers, sports events, etc.

On 14 May 1990, MGySgt ("Top") Paul C. Mason became Chief, IMSO, replacing CPT Todd A. Hetherington. CPT Hetherington will separate from military service after five years in the U.S. Army and will

settle in the local area. "Top" comes from the Geographic Sciences Department, where he had been the Chief Instructor for the last two and a half years.

The IMSO staff also includes SSG Donnie L. Artis, NCOIC, SSG Richard A. Green, Operations NCO, and SPC Bernard S. Harrison, driver. On 21 May 1990, Ms. Beverly A. Stitt, previously assigned to the Belvoir Research, Development, and Engineering Center, was detailed to IMSO as Assistant Chief. Ms. Stitt has 15 years of prior IMSO experience and will be an invaluable asset during this transition period.

IMSO is currently in the midst of a facilities renovation. Construction of an international student lounge and test area has recently been completed. Some of the work remaining to be done includes painting and the installation of drop ceilings, wainscoting, carpeting, and air conditioners. Nonetheless, the welcome mat is out. You're encouraged to drop in and meet the newest members of the DMS family.



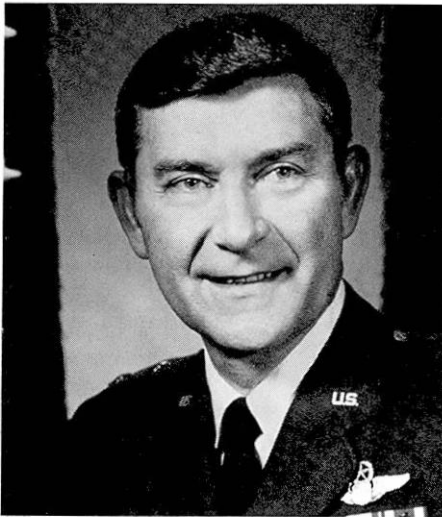
The Direct Line

DMA Tour: Great Experience

As was announced in last month's component papers, I will be retiring from active military service at the end of this month.

I will prescribe for myself what I have said to many DMA military and civilian personnel these past few years as they have stood before me in retirement ceremonies—"because we retire does not mean that we no longer belong to the family." In my case I am most fortunate for I have two "families"—the Air Force, and as a result of my current assignment, the DMA family. I do not plan on leaving either one, just changing from an active to an associate status.

My tenure with DMA has been a great experience for me. Like most users of DMA products, I thought I knew a lot about maps and charts. I found that I was wrong. I have a much greater appreciation for the complexities of MC&G production as I leave the agency than when I came. I came to admire the professional approach with which the people of this agency go about their mission



Maj Gen Robert F. Durkin

of providing critical support to the combat forces.

When I came to DMA, MARK 85 was on everyone's lips and MARK 90 and the DPS were a reference to the future. As I leave, the first deliveries of MARK 90 equipment have been made to the Reston Center and we are

concentrating our focus on the introduction of the Digital Production System.

We have experienced "growing pains", perhaps "changing pains" would be a better phrase, but through it all we continue to meet our mission obligations. A testimony to the quality of the work force.

Budget reductions, technological improvements, changing requirements, all have introduced a dimension of difficulty to DMA's method of operation.

The degree of difficulty will not lessen in the next few years, if the current DoD budget proposals are any indication. We have taken some steps, in the realignment actions just approved, to gain management efficiencies in our operation. Some management initiatives were overdue, while others were necessitated by a restricted resource environment, but all must be accomplished.

In closing, I leave you with this thought—The products and services provided by DMA are vital to the nation's combat forces. Each of you, regardless of where you're located or what your job may be, is an important member of the DMA family.

My thanks to all for making this assignment enjoyable and rewarding.

Reorganization Team Reports; Director Approves 19 of 22 Actions

Management initiatives developed by DMA organizations in response to budgetary limitations will result in a savings of more than 400 manpower spaces over the next four fiscal years, according to the Reorganization Implementation Team (RIT).

The team, after nearly four months of analysis and deliberation, made its final report to the DMA Director on May 17 and 22. Following the briefings, and his study of the plan, DMA Director Major General Robert F. Durkin, USAF, approved 19 of 22 proposed management initiatives for implementation.

"The task of determining management efficiencies beneficial to the future of the agency and which will assist management in reaching budgetary objectives was not an easy assignment," said team chairman BG Joseph Pratt, USA. "Many people have worked very hard preparing the annexes, briefing the team, explaining, and in some cases re-examining and re-explaining, issues. I want to thank them for their efforts."

In addition to General Pratt, the team was composed of Charles Hall, DMA RE, James Skidmore, AC TD, and Lon Smith, HTC TD.

After careful examination by the team and review by the Director, three of the original 22 initiatives proposed were not approved for

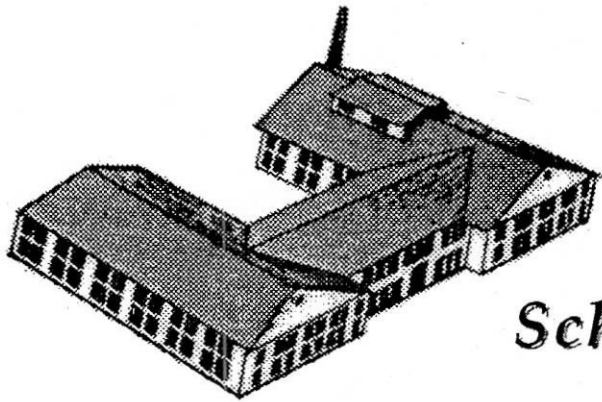
implementation. They were: Annex Charlie—Collocate AID with Printing at HTC; Annex Foxtrot—Merge Production Systems Directorate; and Annex Sierra—Consolidation of PA/CP. The 19 remaining annexes received minor modification of refinements as a result of the team deliberation. The first phases of implementation actions began June 1.

General Pratt, or one of the RIT team members, briefed component senior management during the last few weeks. Functional managers, who were responsible for individual annexes, provided detailed briefings, in early June, to effected organizations.

Editor's Note: The Implementation Plan for Organizational Realignment includes the following annexes directly affecting DMS which were approved for implementation:

ANNEX ALPHA—PP CENTRALIZATION. The objective of this annex is to centralize and strengthen, at the headquarters level, program direction management. A phased approach will be implemented beginning in FY 91 toward the eventual MARK

See Reorganization page 5



From the Schoolhouse

During the last full week in May, the Defense Mapping School successfully hosted two DoD-wide conferences. One was the DoD Terrain Analysis Seminar and the other was the General Intelligence Training Council.

The General Intelligence Training Council is a forum for the exchange of information and ideas attended by the Commandants of the Service Intelligence Schools under the leadership of the Deputy Director for Training of the Defense Intelligence Agency (DIA). Each time I participate in that forum I am reminded and re-educated about the breadth, depth, and complexity of the intelligence community in general and the intelligence training community in particular. Some intelligence training is conducted at the DoD level by DIA in the Defense Intelligence College. That training is significantly supplemented by Army intelligence schools at Fort Huachuca and Fort Devens, the Air Force

Intelligence School at Goodfellow Air Force Base, the Navy's Fleet Intelligence Training Command at San Diego, and the Navy and Marine Corps Intelligence Training Center at Virginia Beach. That decentralized approach to functional training is in marked contrast with our approach to MC&G training, which, as everyone knows, is totally centralized at one Department of Defense Mapping School.

In my judgment, the centralized approach is the best approach, at least for MC&G training. I believe that the consolidation of MC&G instructors and equipment at one DoD school is cost effective because economy of scale is achieved. It seems to me that instructors benefit from the opportunity for cross-training which is more readily available at a DoD-level training institution. As a result, DoD-level instructors increase their effectiveness and flexibility. Centralized training also promotes the concept of jointness. Since combat operations



Colonel Daniel R. Clark

in the modern era are almost always joint operations, it makes sense that training for such operations, or for support of such operations, should be joint training whenever possible. As a practical matter, a Department of Defense School can be much more responsive than a Service-level school. That is because a DoD School is not required to wait for approval from a bureaucratic training command before developing and delivering timely and tailored instruction relevant to the current needs of combat commanders, targeteers, and other war fighters. As the Department of Defense builds down, it is essential to retain high quality training for the residual force. The most cost-effective, efficient, productive way to do that successfully is to do it in the centralized mode.

Maj Gen Robert F. Durkin looks over his presentation notes prior to addressing the General Intelligence Training Council, held at DMS on May 23-24, 1990, as his executive officer, Capt J. M. Geisken, stands by. The meeting provided a senior DoD forum to discuss intelligence training issues.



HAIL AND FAREWELL



CDR Duddy comes to us after a four-year tour as Staff Oceanographer and MC&G Officer for Commander in Chief, U.S. Naval Forces, Europe. The CDR reports it was a very arduous tour of duty, being "forward deployed" to London, England.

The Commander has completed almost 25 years of Naval service, almost entirely in operations billets and including an extensive amount of sea duty.

CDR Duddy has seen sea duty aboard both Atlantic and Pacific Fleet destroyers and amphibious ships—two destroyers and two "amphibs", a USCG icebreaker, and has served as Commanding Officer, Oceanographic Unit Two, embarked aboard the USNS DUTTON.

His shore duty tours include the NATO SACLANT staff in Norfolk, VA, a tour with DMA headquarters staff, and his recent CINCUSNAVEUR assignment.

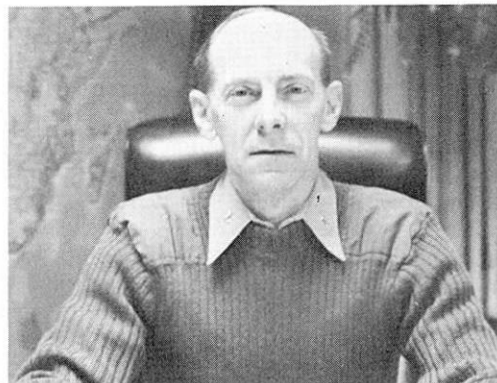
The Commander has a bachelor's degree in Geophysics from Purdue University and an MS degree in Meteorology and Oceanography from the U.S. Naval Postgraduate School. His master's thesis concentrated on the hydrography of the northern Norwegian Sea.

CDR Duddy, his wife, Nancy, and children, Dannel and Cristin, live here on Post (he says he's having trouble getting used to the commute!).

May 31, 1990 marked the retirement of Lieutenant Colonel Charles A. Sakowicz (USMC), deputy director of DMS. Sakowicz transferred from USMC Headquarters, Washington, D. C. to the School in 1987.

LtCol Sakowicz is a native of Greenfield, Massachusetts, where he graduated from Frontier Regional High School in 1961. He enlisted in the Marine Corps in November, 1962.

Sakowicz and his wife, Jeanne, live in Stafford, VA. They have four children—Christine, Laura, Charles Jr., and Michael.



It's that time...

by Chesley F. Cummins

Many years ago, my goal was to work for the government as a civilian after I retired from the U.S. Army. I also made a promise to retire when

I became 62 years of age. Well, I retired from the Army, 1 July 1973, and began my civilian career in October 1974. All my civilian service has been here at the Defense Mapping School. My accrued annual leave will take me to my 62nd birthday—so it's time to step down and let others take charge. For many of you at DMS, our association has continued from military service right into civilian service. I have worked with and been associated with some of you well over 30 years.

Tom O'Brien, Jim Harnden and I go back to the mid-and late 50s in Tokyo. Joyce Zieres and I go back to '62 in Wheeler Hall.

The last almost 16 years have been great. It would be hard to improve on them. I have been blessed with super bosses and outstanding workers. I've met and worked with a great group of people who had a lot of pride in what they did. I've had a lot of support and help from everyone. I will sincerely miss the people at DMS, and look forward to keeping up-to-date through the Contour.

My wife, Kathy, retired from C&P Telephone Company in February 1987, so after about 43 years of service, it's time to join her in retirement.

We have built our new retirement home at Hunter's Creek in Southwest Orlando, Florida, just a short distance from Disney World, MGM, and Sea World. If you are in Orlando, please give us a call and if we are home and you have time, come see us. I wish you all the best in the future.

MSI/GIS SENIOR MANAGERS SEMINAR

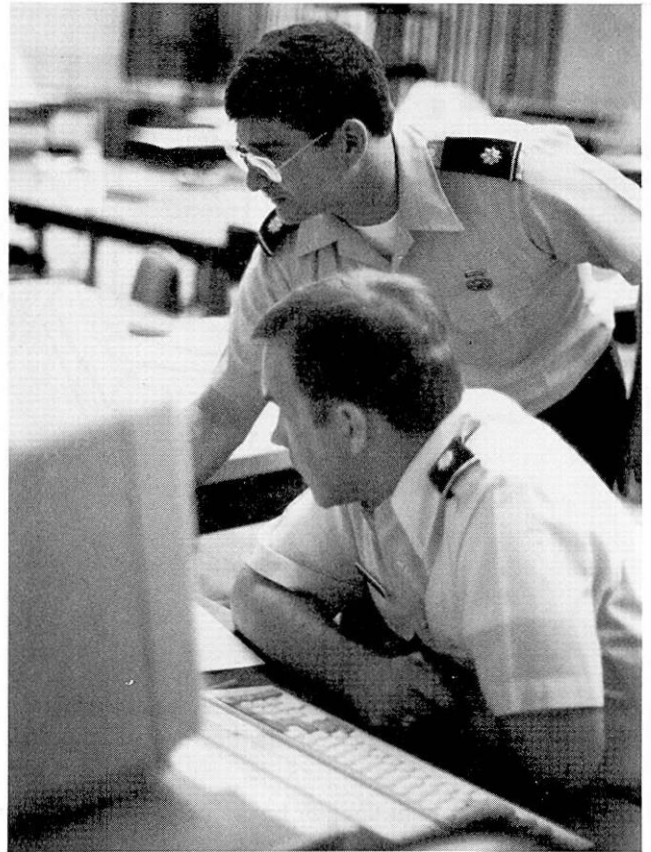
by Capt Timothy McCaig

The Department of Management and Technology held a Multispectral Imagery (MSI) and Geographic Information Systems (GIS) Senior Managers Seminar on 8 and 9 May. Major Larry Shubat and Captains John Clark and Bill Smith hosted this meeting of senior managers designed to introduce them to the world of MSI and GIS. The students were from the Unified and Specified commands, along with representatives of all military services and the Defense agencies.

Day 1 of the seminar was an introduction to MSI and GIS, along with trends and discussion. Captain Mike Reading gave a briefing on accuracy and limitations. The day concluded with a series of guest speakers: Captain Joseph Parsley from the Strategic Air Command; Ms. Susan Davis of the Army Space Command; Mr. Paul Sanders from the Office of Naval Intelligence; and Captain Robert Gibson from the DMA Systems Center. These speakers gave an update on their organization's capabilities and future outlook.

Day 2 was a flurry of activity with the attendees spending half the day working hands-on in the computer laboratory, and the remaining time visiting the DMA Warrior Support Center. The attendees had their hands full working through the practical exercises, which really opened their eyes to the possibilities of multispectral imagery. The Warrior Support Center gave the managers a look into the future of geographic information systems and the role DMA is playing to support those systems.

Digital spatial data processing is the future for the Defense Mapping Agency and the Defense Mapping School is ready, willing and able to teach senior managers and operators this exciting technology.



MAJ Larry C. Shubat, chief of MTM, checks to see if LtCol J. Burnham (USAF) HQ, TAC, has mastered MSI/GIS Management.

REORGANIZATION from page 2

90 organizational and management concept. The centralized program management concept and the associated organizational restructure provides a top-down, two-phased team approach to program development and execution.

ANNEX GOLF—SPAN OF CONTROL. The objective of this annex is to extend the span of supervisory control within DMA. The first level supervisory span of control is not currently consistent between production centers; an overall ratio of 1:14 is required. In the MARK 90 organization structure, a 1:16 ratio is to be introduced as organizations are established or reorganized.

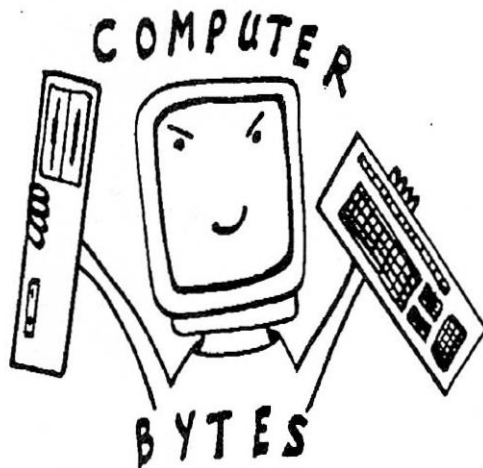
ANNEX LIMA—TROUBLE DESK CONSOLIDATION. The objective of this annex is to schedule and accomplish centralization of Trouble Desk repair requests for the agency exclusive of DMA Reston Center. This centralization will move the Trouble Desk repair requests responsibilities to DMASC West Resource Group.

ANNEX NOVEMBER—COMPTROLLER REORGANIZATION. The objective of this annex is to reorganize Comptroller resources within the Agency. Comptroller functions will be removed from individual DMA components and managed centrally by the Comp-

troller, DMA. Budget and manpower management functions that must be performed on-site will be provided at a reduced level by Resource Management Offices collocated with components. Management analysis functions will be cut back 50 percent and centralized in a new Management Analysis Office.

ANNEX QUEBEC—INFORMATION/RECORDS MANAGEMENT CONSOLIDATION. The objective of this annex is to centralize the Agency's information and records management operations at headquarters DMA, reducing manpower in components.

ANNEX TANGO—HRM CONSOLIDATION. The objective of this annex is the consolidation and streamlining of agency civilian personnel administration, military personnel administration, personnel security, equal employment opportunity (EEO), and safety and health functions into the Human Resources Management (HRM) Directorate. "Straightline" program authority and responsibility will be exercised by the DMA deputy director for Human Resources Management (DD/HRM).



by Jim Davidson

Some of the computer-related questions and answers that follow may be of interest to all DMS microcomputer users.

Q I cannot print lines or boxes using Multimate on my Alps printer even though it works on other identical printers. Help!

A First, try switching Printer Action Tables (PATs) by pressing F1 when displaying your print screen. Select another PAT, such as EPSONLQ or EPFXLINE. If that does not work, check the dip switches inside the panel lid on the left side of your printer. The middle bank of switches (2) should have switch 7 set on (up).

Q What are the latest versions of the following commercial software: MS-DOS; Wordperfect; Wordstar; Multimate; Dbase; Lotus 1-2-3, and Enable?

A MS-DOS 4.01; Wordperfect 5.1; Wordstar 6.0; Multimate 4.0; Dbase IV; Lotus 1-2-3, 2.2 and 3.0 (for more memory); and Enable O/A.

Q I can never seem to get the DOS Backup and Restore commands to work when transferring files. Any suggestions?

A Yes, stop trying to steal government software! Just kidding. Different versions of MS-DOS have separate versions of Backup and Restore. Usually you need to restore data with the same version you used to back up the data, i.e., Backup 3.30.06 and Restore 3.30.06. Try to find a version of Restore that matches the Backup and load it for restoring data.

"It does not take much strength to do things, but it requires great strength to decide on what to do."

---Elbert Hubbard,
American author and publisher

Hot Dog !!

It's...

Picnic Time!!

by Sue Kersey

After several practice picnics, we're ready for the real thing. It's time for picnic weather, good food - and lots of it - games and friendly competition. The DMS picnic is traditionally a highlight of the year and since the practices have "gotten all the bugs out", the '90 picnic will be just that much better. We'll meet at the Castle Club park at Tompkin's Basin on Friday, 6 July, at 0900.

Chef Lobdell (GS) has planned a much better menu than an ordinary caterer could ever do. The "burger and dog" folks will be in a "burger and dog" line, one that doesn't interfere with the "chicken and ribs" fans, who'll have their own line! Is he on the ball, or what? With shorter lines, totally cooked food (no feathers), and a selection of entrees, we're really cookin' now!

The chef's assistants will also offer a selection of salads, chips, dips, cookies, and cakes. Beer and soft drinks will help wash it all down. Just be sure to get in line in front of CT. Boy, how those folks can eat!

Food is the primary concern, but following closely are fun and games. There will be plenty for all ages and abilities.

MT has put together an active and varied schedule of events. Fun and games start at 0900 and run until 1100, when it's time to eat. At 1300, games start up again. Everyone's favorite, the moonwalk, will be available from 1000-1400. Departments need to form volleyball, horseshoe, and canoe teams NOW. There is a traveling plaque for the volleyball winner! Fishing is another activity that's offered until 1400. Do be sure anyone 16 and over has a Virginia fishing license.

The younger set can also participate in the water balloon toss, sack races, and a series of relay races. The relays include the egg and spoon race, an orange exchange, and Major Shubat's favorite, dizzy bat.

Cost of this year's picnic is only \$3 per adult and \$1 per child, not to exceed \$10 per family. See your department representative for tickets.



Humor is Lifeline for DMS CTers

by Karen S. Williams

If some of you adventurous types have had a mission "up the hill" recently, you may have enjoyed the extemporaneous tongue-in-cheek wall and door art in or around the vicinity of Component Training. The centerpiece of CT's "display" is on the department bulletin board and depicts a floundering ship full of wide-eyed passengers right in the path of an imminently-close tidal wave, i.e. agency reorganization. Several of the wary passengers have already jumped ship and found refuge on the USS DMAAC/POT, the USS CSC, and the USS DMALO. Dan Wilson, Pat Donovan, and John Haddick all assure us that although the water seems cold at first, we'll get used to it. A dwindling, but determined, contingency of diehards attempt to maintain their balance and steady their course even while they are tossed about the ship on the turbulent seas.

Welcome to CT— home of the smallest, feistiest, and most resilient group of folks comprising a department you're ever apt to run across at DMA. Our mission may have been retracted but not our spirit. The camaraderie and sense of humor which has held fast during the last few months is evident in the cryptic messages ("Lost our Lease" and "Chapter 11 - Reorganization") which can be found taped to a wall or door in the department. Under the steady command of Kelley Lillegard, the group has used the slack time to reassess career paths, examine career options, and seize educational opportunities.

Mark Altman increased his knowledge of DMA's interface with military users via enrollment in DMS's MCGSOC course. Sue Kersey enhanced her knowledge of digital MC & G data through attendance of the Introduction to MC & G Data course offered by DMS/MTM. Barbara Windland attended several short training manager courses taught by a local private training contractor. What might have been a stressful, unpleasant situation for all has been tempered and actually reversed by the humor, sense of fellowship, and "just do it" attitude which permeates the department. The support of management has also been unfaltering and reassuring.

Productively speaking, CT certainly held its own. It managed the development and implementation of an impressive number and caliber of courses and/or programs: DIOP, DMOP, ELP, Computer Security, EBTC, and the Faculty Development Program, to name a few. John Bassett, supported by other training specialists Sue Kersey, Rebekah Wilfong, and Alan Williams, successfully delivered an exhaustive ITC schedule to the production components. This ITC instruction is providing the necessary skills to enable production employees to teach and implement production changes being driven by the Digital Production System (DPS).

What happens to CT isn't nearly as important or meaningful as what the CT experience has actually been. The group's substantive accomplishments during its relatively short tenure, as well as the collective pride and fun each of us has had while a part of this vibrant interactive group, speak for themselves.

So maybe the good ship CT didn't reach its destination, but all will agree it was quite a trip. Fair winds and following seas.

CONTOUR



RADM D. C. Richardson, deputy director, DMA, administers the reenlistment oath to LIC Warner Mayden at the Navy Memorial on May 17, 1990.

Lithographer Chief Warner Mayden enlisted in the United States Navy on 18 Feb 1977. He attended Basic Training in San Diego, California, then went on to a number of interesting assignments, to include Commander Seventh Fleet, embarked on the USS Oklahoma City (CG-5), homeported in Yokosuka Japan, USS Dixon (AS-37) in San Diego, California, Naval Amphibious Base, USS Tripoli (LPH-10), and USS Guadalcanal (LPH-7).

Mayden is currently assigned to the Graphic Arts Department at the Defense Mapping School, but will be leaving in July '90 for new construction duty onboard the USS George Washington (CVN-73).

Leave Usage Changes To 15-Minute Increments

The DMA Personnel Office is implementing a change to leave policies which will permit employees to request and use annual and sick leave in 15-minute increments, according to Curt Dierdorff, DMA Director of Personnel. DMA regulations currently require leave charges in increments of one hour.

DMA views the change as an opportunity to provide employees with a more flexible work situation and to respond to some employee concerns expressed in the DMA-wide Workforce Survey.

The Personnel Office is working closely with the DMA Comptroller to finalize leave and payroll accounting procedures to permit the new 15-minute policy. Employees should be able to use the new leave policy with the pay period beginning 1 July 1990.

DIRECTOR'S CALL

NEW ARRIVALS

LI1 Carl A. Holloway (USN)
Department of Graphic Arts

DEPARTURES

LCDR Robert M. Bassett (USN)
Dept of Management & Technology

SFC Phillip B. Herr (USA)
Department of Graphic Arts

MSgt Michael S. Sepinski (USAF)
Department of Geographic Sciences

SSG Willie E. Heard (USA)
Department of Geographic Sciences

PROMOTIONS

SSG William F. Belokon (USA)
Department of Geographic Sciences
To Sergeant First Class

AWARDS

ISC Scott E. McDonald (USN)
Dept of Management & Technology
Defense Meritorious Service Medal

TSgt Michael S. Mustard (USAF)
Dept of Management & Technology
Meritorious Service Medal, Air
Force

Capt Henry J. Schneider Jr. (USMC)
Office of Plans, Programs & Operations
Navy Commendation Medal

TSgt Peggy A. Cantey (USAF)
Department of Graphic Arts
Air Force Commendation Medal

TSgt Foster Wright (USAF)
Department of Graphic Arts
Air Force Commendation Medal

Capt Andrey Aristov (USAF)
Dept of Management & Technology
Joint Service Achievement Medal

GySgt Michael J. Kocheran (USMC)
Department of Geographic Sciences
Joint Service Achievement Medal

MASTER INSTRUCTOR CERTIFICATES

Military

Capt David Brumbaugh (USAF)
Dept of Management & Technology

CPT Jonathan R. Clark (USA)
Dept of Management & Technology

Civilian

Robert Murphy
Department of Geographic Sciences

SENIOR INSTRUCTOR CERTIFICATES

CPT Michael R. Mason (USA)
Dept of Management & Technology

Capt Timothy W. McCaig (USAF)
Dept of Management & Technology

LIC Don L. Carlson (USN)
Department of Graphic Arts

SFC Kenneth J. Klopp (USA)
Dept of Management & Technology

LI1 John E. Curtis (USN)
Department of Graphic Arts

SSG John F. Getshall (USA)
Department of Graphic Arts

TSgt Michael S. Mustard (USAF)
Dept of Management & Technology

DMS CERTIFICATE OF ACHIEVEMENT

Capt Rickey I. Durkin (USAF)
Dept of Management & Technology

LETTER OF COMMENDATION

GySgt James A. Rawllins (USMC)
Department of Graphic Arts

SSG(P) Carlos M. Dizon (USA)
Department of Geographic Sciences

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Official Business



CONTOUR

Instructor's Life Easier with Harvard Graphics

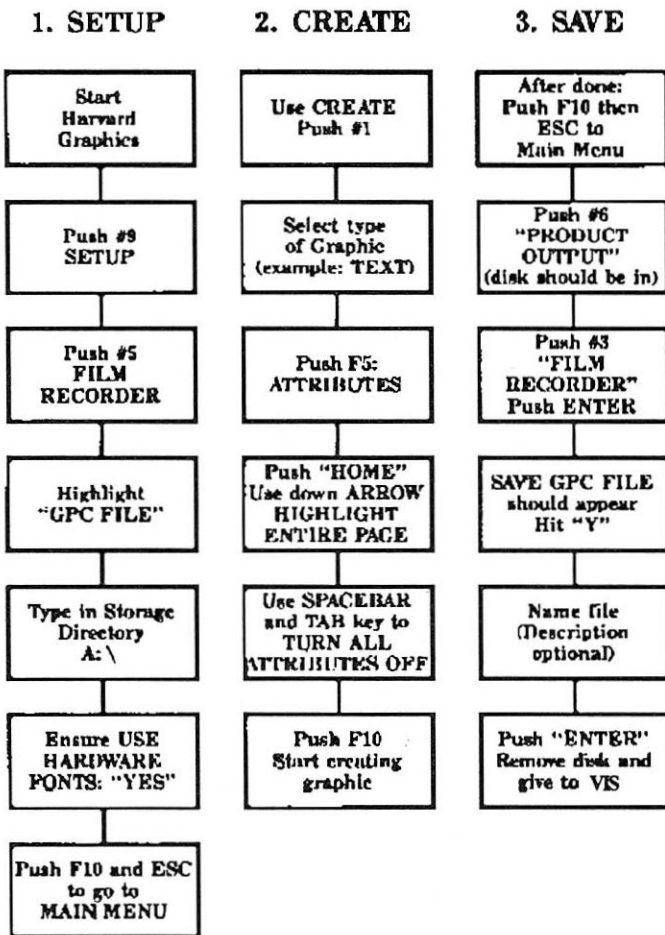
by Jeanne Elmore

The Visual Information Section (VIS) produces a wide range of graphic products such as overhead transparencies, 35mm slides, charts, graphs, catalogs, and posters.

This article will illustrate how you can use Harvard Graphics software to help us respond more quickly and efficiently to your work requests for overhead transparencies and 35mm slides. We use a computer graphics system to create thousands of visuals each year. Metafile software is used to translate a Harvard Graphics "PIC" file (file saved with a "PIC" extension) into an "IMA" file. An "IMA" file, or image file, is what we use to create visuals on our computer graphic system. Metafile is a "software bridge" that lets you move graphics from other programs into our computer graphics software's environment. If you give our shop a disk containing Harvard Graphics files, all we have to do is add color and put it into the appropriate format. The steps of editing and proofing are deleted, resulting in labor and time savings for us, and quicker turnaround to you.

A few personnel in the Management and Technology and Geographic Sciences departments have expressed interest and, in fact, have worked with us to enable instructors to save files properly while using Harvard Graphics. Yes, files must be correctly saved, and in so doing, the job of translating to our image files is much easier. The flowchart shown here depicts the easiest method I have found to create and save a Harvard Graphics file. Each step MUST be followed in order to make the most efficient use of our

Creating "PIC" Files from Harvard Graphics



time and talent.

If you are interested in learning more about this, or have any questions, please call Capt Mike Reading (355-7392) in the Management and Technology Department, or Jeanne

Elmore (664-2285) in the Visual Information Section. Captain Reading is planning to teach a course on using Harvard Graphics for translation by VIS if there is enough interest to warrant it.

Arkansas Native New Director of DoD Mapping Agency

Air Force Major General William K. James became the new director of the Defense Mapping Agency (DMA) in ceremonies June 29 in Washington, D.C.

General James, a native of Hope, Arkansas, came to DMA from a position as the Deputy Commander in Chief, United States Southern Command, Panama.

He succeeds Air Force Major General Robert F. Durkin who retired from active military service at the end of June.

General James is a graduate of Southern Methodist University with a bachelor of science degree in geology. He entered the Air Force through the Reserve Officer Training Corps program where he was a distinguished graduate.

Following flight training at Bartow Air Base, Fla., the general received his pilot wings at Greenville AFB, Miss. He then spent six years as an instructor pilot, officer training instructor and standardization/evaluation flight examiner, flying T-33s and T-37s at Greenville AFB and Moody AFB, Ga.

In September 1965 he completed F-100 conversion training and was assigned to the 48th Tactical Fighter Wing, Royal Air Force Station, Lakenheath, England. He transferred to the 3rd Tactical Fighter Wing, Bien Hoa AB, Republic of Vietnam, in February 1969. During this tour of duty, he flew 180 combat missions.

Upon completion of the Vietnam tour, General James was assigned to the 474th Tactical Fighter Wing at Nellis AFB, Nev., where he served successively as an F-111



Maj Gen William K. James

flight commander, squadron weapons officer, squadron chief of training and scheduling, and standardization/evaluation flight examiner.

From 1973 to 1980 the general served in a variety of significant positions. He was an action officer in the Plans Division, Nuclear Operations Branch for Headquarters Allied Forces Central Europe; commander of the 55th Tactical Fighter Squadron, 20th Tacti-

cal Fighter Wing, at Royal AFS Upper Heyford, England; chief of Plans, Operations and Readiness Division for the Air Directorate, National Guard Bureau; and vice commander and commander of the 27th Tactical Fighter Wing, Cannon AFB, N.M. He was assigned as commander of the 552nd Airborne Warning and Control Wing, Tinker AFB, Okla., in September 1982 and remained commander of the organization when it was redesignated the 552nd Airborne Warning and Control Division in October 1983. When the division reorganized in April 1985, General James became commander of the newly activated 28th Air Division. In September 1986 he reported to Royal AFS Mildenhall, England, as commander of 3rd Air Force.

From the 3rd Air Force assignment he moved to Headquarters, Tactical Air Command, Langley AFB, Va., as Deputy Chief of Staff for Operations.

In July 1989 he assumed the position as Deputy Commander in Chief for United States Southern Command.

The general is a command pilot with almost 6,500 flying hours in T-33s, T-37s, A-7s, A-10s, F-100s, F-111s, F-15s, EC-135s and E-3s. His major military decorations include the Distinguished Service Medal, Legion of Merit, Distinguished Flying Cross, Meritorious Service Medal, Air Medal with eight oak leaf clusters, and Air Force Commendation Medal.

General James is married to the former Jo Alsop of Wakefield, Ks. They have three children: Kelly Elizabeth, John Scott, and Bradley Kirk.

DMS Hosts Terrain Seminar

by CW3 Edwin Huth, USA

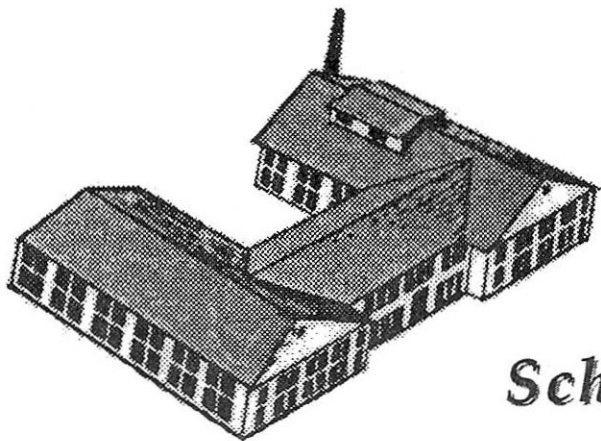
The 1990 DoD Terrain Analysis Seminar was sponsored by the Defense Mapping School from 21-24 May 1990. The eighth in a series of annual meetings dating back to 1983, this year's conference focused on tactical terrain analysis with particular attention to information dissemination. Over 165 attendees represented all branches of the uniformed services, the Department of Defense, the United States Geological Survey, the Federal Bureau of Investigation, the Canadian Armed Forces and several contractor organizations.

The keynote speaker, Colonel Jack R. Garris, USA, of the Joint Chiefs of Staff, challenged terrain analysts to take responsibility for the timely dissemination of terrain information to all levels of command. He stressed the Factors of METT-T (mission, equipment,

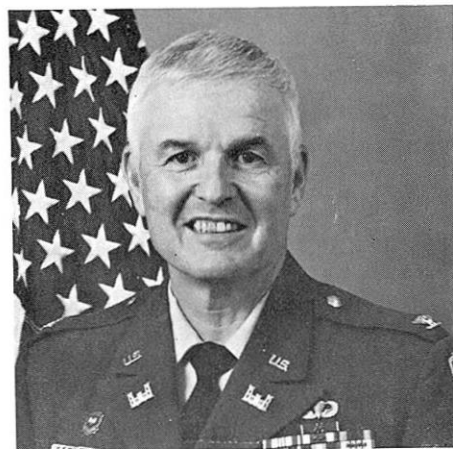
See TERRAIN page 4



BG Joseph Pratt (I) talks with COL Daniel R. Clark prior to addressing the Terrain Seminar.



From the Schoolhouse



Colonel Daniel R. Clark

This edition of the "Schoolhouse" column is addressed and dedicated to every member of the staff and faculty of our Defense Mapping School. During the past two years while we served here together, we had a productive arrangement. It was simple. I got out of your way and you got on with the job. Malcolm Forbes said, "If you have a job without aggravations you don't have a job." By that standard, you kept me unemployed. Anyone who knows the staff and faculty of the Defense Mapping School knows that every member of the DMS team is highly professional, extremely competent, and very dependable. I'm certainly grateful to each of you for displaying those important traits, but I am most grateful for the courtesy and goodwill you consistently show because that's what creates our harmonious and enjoyable work environment.

I suppose work and play are really the same thing under different conditions. For too many people, work is what they do so that sometime later they won't have to do it any more. I was one of the lucky ones who found out early what he liked doing best, and got someone to pay him for doing it. I think most of you are among the lucky ones, too. You certainly project enthusiasm for what you're doing which makes me feel you're happy in your career and in your assignment at the School.

We've been doing great work together and I've been having a wonderful time. I don't think it would have occurred to me to retire voluntarily right now, but the 30-year clock ran out and perhaps that's a good thing. You'll get some new blood and I'll avoid the temptation to complacency. Am I ready to leave the Army? I don't feel ready, but then

conditions are seldom just right and I've never felt completely ready for any assignment. However, with the right support, like the kind you provided to me and other newcomers, one develops ability to deal effectively with any new situation. Would I do anything differently? Essentially not. I would not change the itinerary or the route, but along the way I would plan less and do more, report less and do more, explain less and do more. Those are my lessons learned.

I sincerely thank each of you, every officer, every noncommissioned officer, and every civilian for our total experience together over the past two years. You make a superb team. Good luck and God bless you all.

DMS Changes Command

In a Change of Command Ceremony on July 13, 1990, the command of the Defense Mapping School changed from Colonel Daniel R. Clark to Colonel Samuel R. Schwartz.

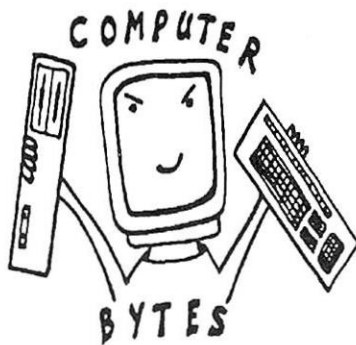
Colonel Schwartz was born in Elizabeth, New Jersey in June 1942. He earned a BS degree in Mechanical Engineering from Clarkson University, Potsdam, New York in 1964 and received his MS in Mechanical Engineering at Clarkson in 1967. In 1977, he was awarded an MS degree in Geodetic Science from Purdue University. His military education includes the Army War College, MCGOC, and Defense Language Institute (German).

Colonel Schwartz's military assignments include: Section Commander, then Platoon Commander, 185th Avn Co, Ban Me Tuit, Vietnam, and Assistant Operations Officer, 183rd Avn Co, Dong-Bat-Thien, Vietnam (1969-1970); Mechanical Engineer, USA Avn Test Board, Fort Rucker, AL (1970-1973); Maintenance Officer, 8th En Bn, HHC, Fort Hood, Texas (1973-1974); Commander, E Co, 8th En Bn, Fort Hood (1974-1975); Commander, 524th En Co, Fort Hood, Texas (1975-1977); Commander, Litho

Sqdn, DMA Topo Ctr, Bendigo, Australia (1977-1980); Executive Officer, 17th En Bn, Fort Hood (1980-1982); Chief, Plans & Operations, TRADOC Combined Arms Test Acty, Fort Hood (1982-1984); Commander, 649th En Bn, Schwetzingen, Germany (1984-1986); Assistant Corps Engr, 130th En Bde, Hanau, Germany (1986-1987); and Engineer Pres, Armor & Engr Bd, Fort Knox, KY (1988-1990).

Colonel Schwartz has been awarded a Bronze Star Medal with two oak leaf clusters; Defense Meritorious Service Medal; Meritorious Service Medal with two oak leaf clusters; Air Medal with 12 awards and bronze "V"; Army Commendation Medal with two oak leaf clusters; Army Achievement Medal; National Defense Service Medal; Vietnam Service Medal with three bronze stars; Army Service Ribbon; Overseas Ribbon; Vietnam Campaign Medal with 60 device; Republic of Vietnam Gallantry Cross with palm unit citation; and Senior Army Aviator Badge.

Colonel Schwartz and his wife, Lisa, have a daughter, Jana, who is 13. They live on post at Fort Belvoir, VA.



by Jim Davidson

Automate Your SF-171 With New Software

When was the last time you updated your SF-171? With the DMA reorganization and DoD personnel reductions, it is important for DMS civilians to have a current Application for Federal Employment, SF-171, readily available and on file at CPSO. Service members who will soon separate from active duty and are planning to enter civil service also should complete an SF-171.

Fortunately, several computer programs are available to ease the sometimes burdensome task of filling out an SF-171. "Quick & Easy For The SF-171" by DataTech, "Advantage...The SF-171 Software" by Federal Research Service, "SF-171 Automated Computer Program," by SmartSoft Technology, and "SF-171" by El Dorado Software are four DOS-based programs on the market. Also, a Macintosh version comes with the various DoD forms packages (e.g., "FedForms Navy") available from FedSoft Corporation.

Quick & Easy produces a complete filled-in facsimile on laser printers with at least 1.5MB of memory. It will fill in blank SF-171 pages on other printers. With Advantage, you must load the form in a printer. It works with any dot matrix or laser printer and has easy-to-follow directions. The SF-171 Automated Computer Program uses pinfeed SF-171 forms produced especially for dot matrix or daisy wheel printers. It also comes with the book "How to Get a Federal Job." El Dorado's SF-171 and the FedForms software also produce a filled-in form. Listed below are addresses, phone numbers, and prices (without shipping) for the packages mentioned.

Advantage: The SF-171 Software
Federal Research Service
P.O. Box 1059
Vienna, VA 22183-1059
\$69.00 - (703)281-0200

SF-171
El Dorado Software
P.O. Box 3606
Littleton, CO 80161
\$35.00 - (303)770-6000

Quick & Easy For The SF-171
DataTech
4804 Sweetbriar Terrace
Harrisburg, PA 17111
\$34.95 - (717)561-1335

FedForms (USA, USAF, or USN)
FedSoft Corporation
5947 Atteentee Road
Springfield, VA 22150
Call - (703) 644-6365

SF-171 Automated Computer
Program (& federal job book)
SmartSoft Technology Corp.
5101-E Backlick Road
Annandale, VA 22003
\$59.95 - (703) 354-2233

TERRAIN from page 2

terrain, troops and time) and the Intelligence Preparation of the Battlefield Process through a vivid illustration of a tactical scenario, placing the audience in the role of a brigade commander. Col Garris' presentation clearly highlighted the role of terrain analysis as a combat multiplier.

BG Joseph Pratt, USA, Deputy Director for Plans and Requirements, Defense Mapping Agency, stressed DMA's commitment to continued support of the terrain analysis community. He reviewed agency priorities and introduced several DMA speakers. Other major presentations were provided by Headquarters, U.S. Marine Corps; the U.S. Army Engineer School; the U.S. Army Forces Command; the U.S. Army Engineer Topographic Laboratories; various laboratories; and representatives of the Unified and Specified Commands. The presentations of tactical terrain analysts supporting army divisions, corps, and theater topographic battalions highlighted the event.

Several new approaches marked this year's seminar. The location was moved to Humphrey Hall in the former Engineer School complex. Multiple working groups addressed the concerns of the U.S. Marine Corps and the major Army commands, peculiarities of support at different echelons of command, and the operational considerations of Army and Marine Corps NCOs and warrant officers. Issue papers were developed to focus ideas at the responsible agency. Responses to these issues will be distributed as part of the seminar after action report to be published in October of this year.

This year's seminar was lauded as the best ever. Comments addressed the continued appropriateness of hosting this conference at the DoD level with DMS taking the lead role. Accordingly, we at DMS are looking forward to the continuation of this important forum and are already making plans for the 1991 Terrain Analysis Seminar.



Purple Heart Day
August 7

July/August 1990



Colonel Daniel R. Clark, guest of honor, is introduced.



SSG Theodore W. Mohn emphasizes a point to listeners while (L to R) SSG Susan L. Fortune, SGT Dorothy Hernandez, and MSgt Michael S. Sepinski continue with their meal.

The head table toasts "The President of the United States!" (L to R, MGySgt Paul C. Mason, COL Daniel R. Clark, SGM John S. Dodge III, SGM Carlos L. Sellers.)



Photos by ISC Scott E. McDonald

"Dining-In"

by SGM John S. Dodge III

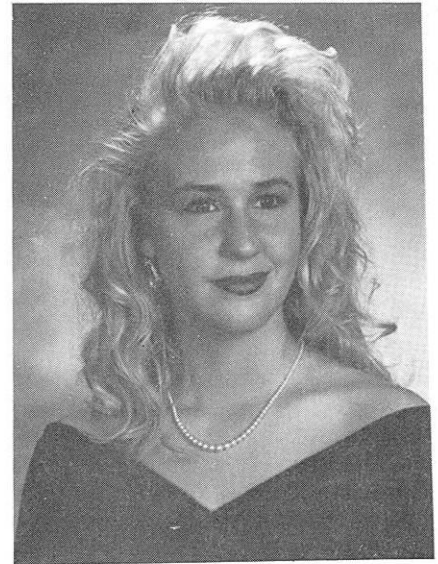
Defense Mapping School enlisted personnel held a "Dining-In" honoring our departing Director, Colonel Daniel R. Clark, on 20 June 1990 at the Cedar Knoll Inn. Seventy-five noncommissioned officer soldiers, Marines, sailors and airmen, dressed in their formal uniforms, participated in the gala event.

This was the first time such an event had been undertaken at the School and, with the efforts of all assigned enlisted personnel, the evening was a great success. Those of us who had attended other ceremonies were still at a disadvantage since this was to be a "Joint Service" program and there was no program or guide to follow. By merging dining-in practices from each service into a melting pot and then extracting bits and pieces, the joint guide was developed.

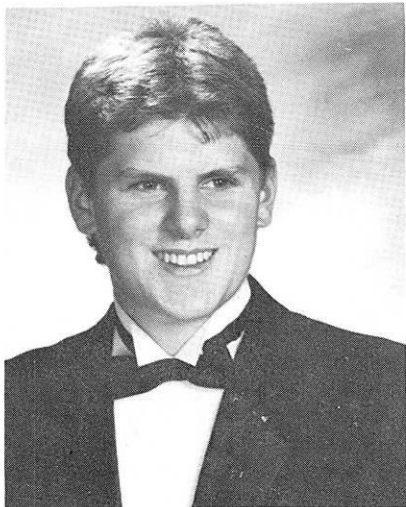
Congratulations,



Robert J. Clark, son of COL and Mrs. Daniel R. Clark, graduated from Hayfield High School. Ranked 20th in his class of 360, Rob was a captain of the varsity soccer team. An Army ROTC scholarship winner, Rob will start civil engineering studies at Vanderbilt in September.

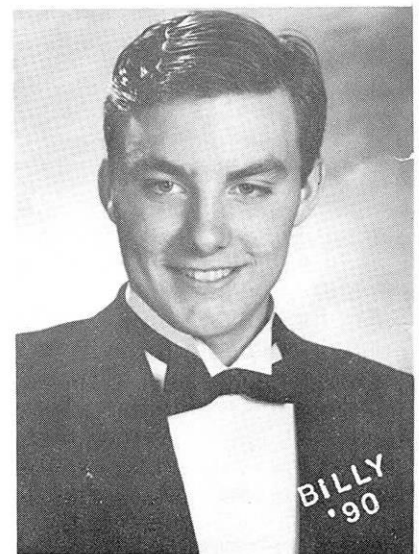


Jennifer Dianne Huth graduated from Hayfield High School. She plans to attend Northern Virginia Community College and work toward a career in fashion design. Jennifer is the daughter of CW3 Ed and Cheryl Huth.



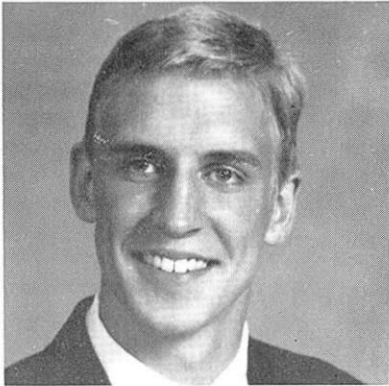
Matthew Julian Stokes is a graduate of Hayfield High School. He received an Advanced Studies Diploma with the Governor's Award for Academic Excellence. He will attend George Mason University in Fairfax. Matthew is the son of CW3 John and Julia Stokes.

Daughter of MSG William Melen, Vicki Lynn Melen graduated from Millriver Union High School, North Clarendon, VT. Vicki plans to continue her business education and pursue a career in accounting. (No photo available)

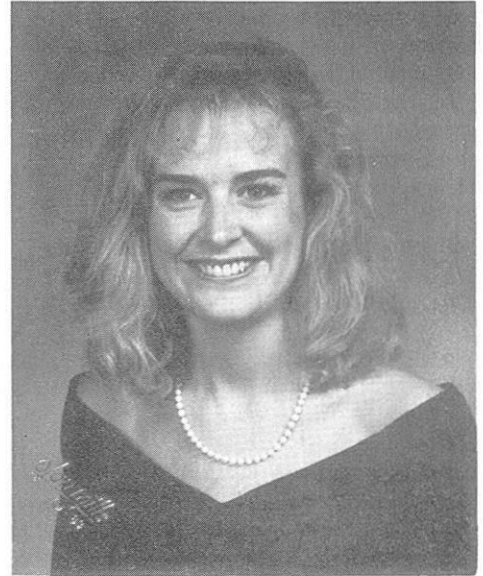


Billy Sperger, son of SFC Gary and Tilitha Sperger, plans to attend Morehead State University. He graduated from Hayfield High School, where he was active in drama. Billy is considering a career in acting.

Graduates!

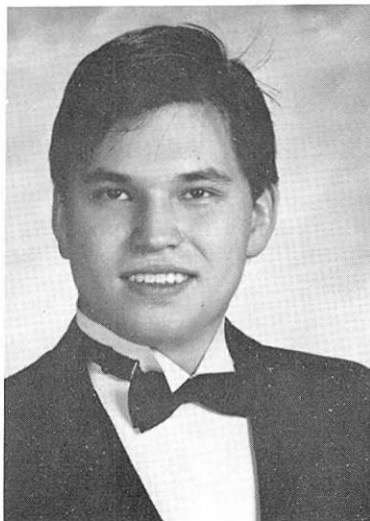
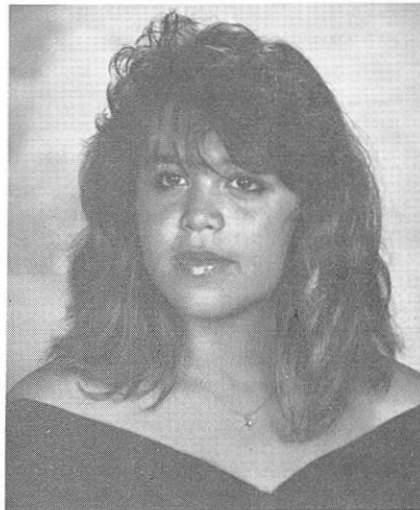


Stephen Charles Mann, son of Mr. John and Jane Mann, graduated from James Monroe High School in Fredericksburg, VA. After attaining his Eagle Scout Award and membership in the National Honor Society, John received an appointment to the U.S. Air Force Academy. John is looking forward to pilot status and a career with the USAF.



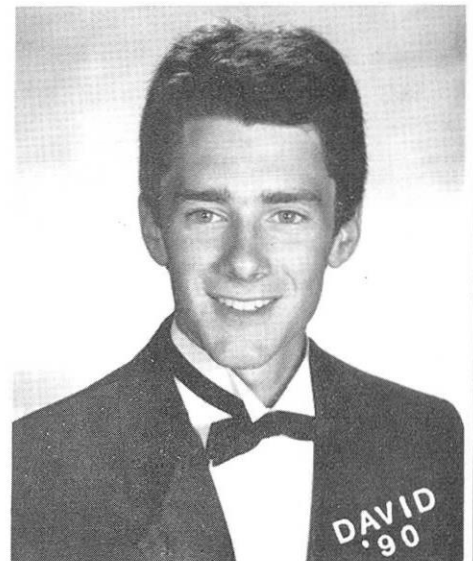
Susan Cameron Kersey is a graduate of West Potomac High School, where she won a Presidential Academic Fitness Award. Susan is the daughter of Colonel and Mrs. Les Kersey. She plans to attend Randolph-Macon College in Ashland, VA.

Aida Patricia Angel is a graduate of West Springfield High School. She was a member of the Honors Biology Club, was elected Spanish Club Princess, and was active in the Los Latinos Club. She plans to join the Air Force Reserves where she will receive training as an emergency nurse technician. After basic and specialty training, she will attend the Mississippi University for Women. Aida is the daughter of Carlos A. Angel.



Danny Lee Henry, son of CW3 Ralph and Tal Henry, is a graduate of Hayfield High School. He plans to attend Northern Virginia Community College in the fall.

David Scott Thompson, son of MAJ Jerry and Judy Thompson, graduated from Hayfield High School. An Eagle Scout and member of the National Honor Society, David received a five-year Navy ROTC Scholarship in Engineering to the University of Colorado at Boulder.



DIRECTOR'S CALL

NEW ARRIVALS

LICM David A. Murray (USN)
Department of Graphic Arts

GySgt George H. Wrightsman (USMC)
Department of Geographic Sciences

SSG Howard E. Wright (USA)
Department of Graphic Arts

DEPARTURES

Military

COL Daniel R. Clark (USA)
Director

MAJ Larry C. Shubat (USA)
Dept of Management & Technology

LIC Warner L. Mayden (USN)
Department of Graphic Arts

Civilian

Noemi Benitez
Department of Geographic Sciences

Jill Tompkins
Office of Mission Support

PROMOTIONS

Julie Stovall to GS-4
Resource Management

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AWARDS

Military

SSG James M. Murphy (USA)
Department of Graphic Arts
Operator Badge-S

SFC Roger K. Hausmann (USA)
Department of Graphic Arts
Operator Badge-S

SGT Dorothy Hernandez (USA)
Department of Geographic Sciences
Armed Forces Expeditionary Medal

SSG Howard E. Wright (USA)
Department of Graphic Arts
Joint Service Commendation Medal

MAJ Larry C. Shubat (USA)
Dept of Management & Technology
Defense Meritorious Service Medal

Civilian

William Crisp
Office of Plans, Programs & Operations
Special Act Award

Charlotte Faehn
Office of the Director
Suggestion Award

MASTER INSTRUCTOR CERTIFICATES

Military

SFC Stuart Lobel (USA)
Department of Graphic Arts

LIC Lee Mayden (USN)
Department of Graphic Arts

Defense Mapping School
Fort Belvoir
Virginia 22060-5828

Official Business

Civilian

Floyd Spicer
Department of Graphic Arts

SR. INSTRUCTOR CERTIFICATES

Military

MAJ Lloyd Carmack (USA)
Dept of Management & Technology

SFC Kenneth Harvey (USA)
Department of Graphic Arts

SFC Roger Hausmann (USA)
Department of Graphic Arts

Civilian

William Polk
Department of Graphic Arts

Deborah Vaughn
Department of Graphic Arts

CERTIFICATE OF ACHIEVEMENT

BUC Thomas Kidney (USN)
Office of Plans, Programs & Operations

OUTSTANDING PERFORMANCE

Charlotte Bernard
Office of Mission Support

DIPLOMAS

LIC Warner L. Mayden (USN)
Department of Graphic Arts
NOVA General Studies Associates
in Science Degree

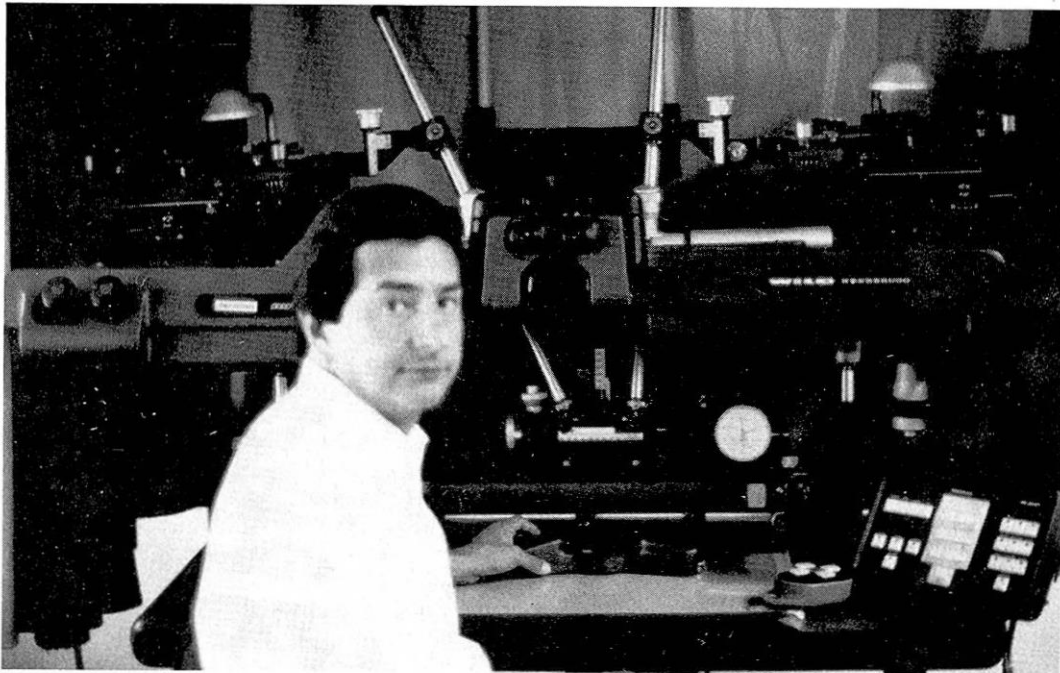


Defense Mapping School

CONTOUR

Volume 17, Number 11

September 1990



Edwardo Ellnan sits at one of the semianalytical instruments, the Wild AG-1.

GSI Photogrammetric Lab Up and Running

by Edwardo Ellnan

One of the major activities to be accomplished in the transfer of the IAGS Cartographic School from Panama to the Defense Mapping School--and undoubtedly one of most concern to all of us--was the installation, setup and calibration of the instrumentation for the photogrammetric laboratory.

Fortunately, the heat and humidity to which the instruments were subjected while on the high seas en route to Fort Belvoir left nothing more than a couple of rust spots and three damaged encoders.

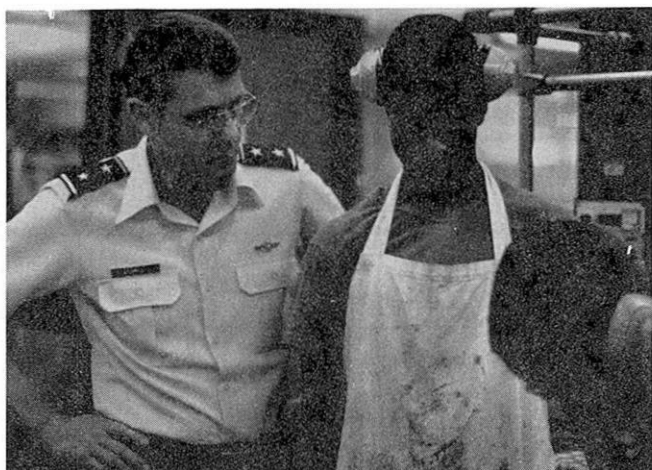
Thanks to the cooperation of PP and GS personnel, especially Dale Cuave, Systems Center's Buddy Adkins, Wild In-

struments Corporation Technician Heinz Kleeb, and Peter Podest, IAGS/Panama, we witnessed the transformation of an empty room into our new and fully operational lab.

The laboratory was reopened on 23 April with a 10-week course, graduating four international students from Bolivia and Guatemala on 29 June. The excellent work performed by the technicians ensured a smooth operation of the practical instruction with only minor difficulties.

The laboratory features a total of 12 first, second and third

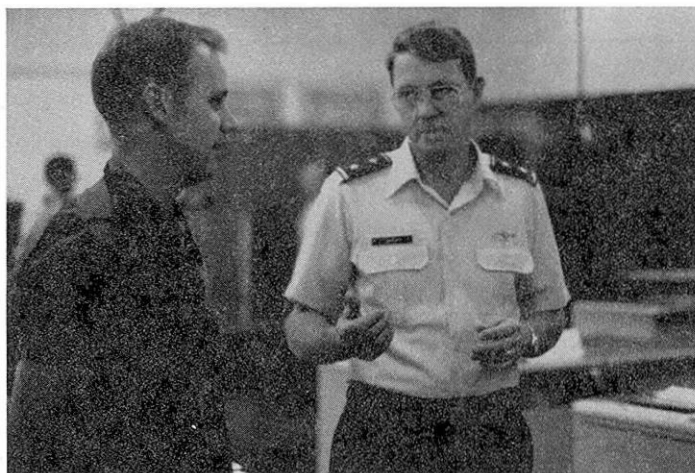
See LAB page 6



Right, General James discusses the current military situation with Advanced Terrain Analysis student SGT Michael Finley.

DMA Director visits DMS

Maj. Gen. William K. James visited DMS on 27 August for an orientation briefing and tour of the School. At left, General James talks with a Graphic Arts student in the Basic Offset Press class.



DMA Efforts Assist US/USSR Boundary Determination

Negotiating an international boundary line? Need someone to calculate points and distances? Call DMA.

Call DMA is exactly what Department of State did in 1983 when they were in the early years of negotiations and deliberations with the Soviet Union over the correct depiction and application of the 1867 United States-Russia Convention Line in the Bering Sea, North Pacific and Arctic Ocean.

Seven years, and over 3000 DMA manhours later, agreement was reached and the first steps in a treaty-signing process instituted.

"The boundary has been a subject of interpretation ever since its establishment in 1867," commented James Ayres, DMA Scientific Advisor for Hydrography. "The Soviet Union calculated the boundary location using a Rhumb Line while the United States developed the line's location using the Great Circle principle."

In 1983, the US proposed a "split-the-difference" approach to a new boundary. Although not accepted as the final approach, the "split-the-difference" concept was the beginning of DMA's complex calculations. "Nothing was easy," said Robert Russman, DMA Systems Center, who was deeply involved with the efforts. "Two DMA people put in over 3000 hours doing calculations, verifications, and graphic production. They spent over 300 hours on the final set of computations alone."

The two to whom Russman referred are Donald Patro, DMAHTC Scientific Data Department, and Bradford Drew, DMA Systems Center. Another individual involved with the project was Dr. Patrick Fell of the Systems Center, who provided technical assistance and served as the technical representative at the final technical negotia-

tion session.

Writing in particular about Patro and Drew, Elizabeth Verville, deputy assistant secretary, Bureau of Politico-Military Affairs, Department of State, said, "From 1983 to now (January 1990), they have provided numerous calculations to support alternatives that we have considered. During all this time, they both have kept us well informed of the technical problems that existed in this area and provided us options that greatly assisted us as we considered our next steps."

The "split-the-difference" approach was not acceptable because it basically drew a straight line between the two countries' interpretations of the boundary, resulting in unacceptable territorial loss, particularly as it applied to natural resources.

In September 1989, agreement was reached in principle on the methodology by which the 1867 Convention Line would be delimited. The final line will be offset in places to better apportion territorial loss, i.e. continental shelf for continental shelf and deep water zone for deep water zone.

According to Verville, technical data was exchanged with the Soviet Union in the October/November 1989 time frame. "We found ourselves with little time to perform all the calculations needed to analyze the Soviet data and to develop a boundary proposal to present to the Soviet side in a few weeks time."

Patro and Drew worked through what was supposed to have been holiday leave to provide the calculations required, calculations which required numerous iterations at each stage.

All the hard work paid off June 1, 1990, when the boundary agreement was reached at the Summit meeting. Based on WGS84, the DMA calculations played an important role in the final determination of the new international boundary. The next step in the treaty approval process is ratification by the Senate.

The Director's Corner

Hello to all of you, mappers and friends. As you read this column you can be assured that the Schwartz family—my wife, Lisa; our daughter, Jana; and our stalwart poodle and my running companion, Permission—is totally out of the moving boxes and life has taken on a degree of normalcy once again. We miss our friends at Fort Knox, but are settling in well here at Fort Belvoir. It's great to be back, but how the times have changed!

Little did I know that the decision made as a young captain to attend the first Mapping, Charting, and Geodesy Officer Course (MCGOC) in 1973 would eventually prove to be the most significant one in my career. MCGOC provided me an opportunity to command twice at the company level, once at the battalion level, earn a master's degree from Purdue, and travel (two years in Australia). I owe a lot to the Defense Mapping School and am happy to have the opportunity to return some of the energy to the institution that started it all for me.

Changes seem to be happening all

around us. The size and structure of our Armed Forces are in a tremendous state of flux. Everyone, it seems, is fighting for a few spaces or resources to keep organizations together, and the same is true here at the School.

The Defense Mapping Agency, of which we are a small (in size) component, is facing tremendous reductions. Your School essentially lost one department, the Department of Component Training, and a space in the headquarters and operations areas whose functions transferred to a smaller, centrally-controlled, part of the Agency headquarters.

On the positive side, real progress and growth is being enjoyed by our three remaining teaching departments.

It is refreshing that the School as you know it, Bagley and Wheeler Halls as well as the ancillary facilities, has continued to get better. Last year alone, 1,708 students graduated from your alma mater.

As we begin a new chapter in the operation of the School, I urge each of you to take a fresh look at the job that needs to be



COL Samuel R. Schwartz

done. School management cannot accomplish our mission alone. We need to explore new ideas, especially from you who are far enough away from the day-to-day workings of MC&G to see problems from a perspective management doesn't often enjoy. We want to have a better understanding of your perceptions and requirements.

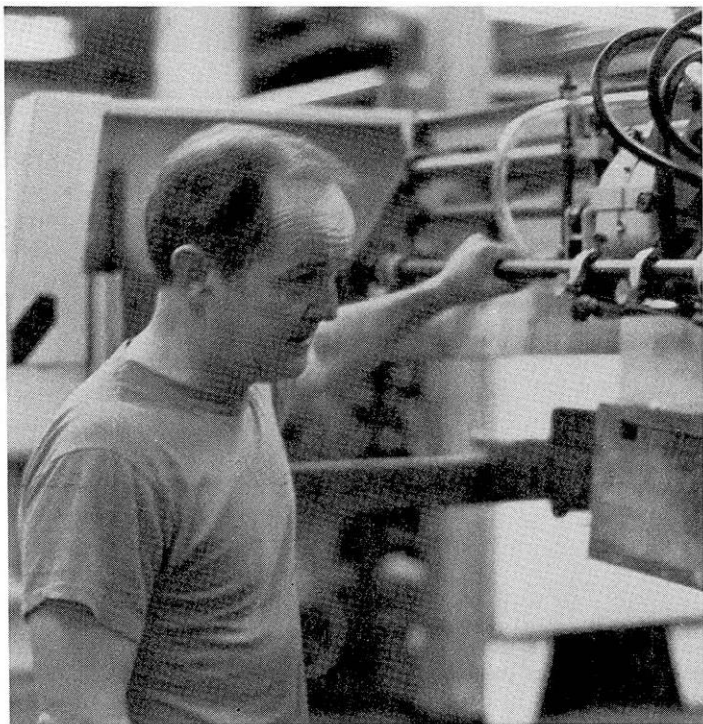
I solicit your input and have asked Captain Henry Schneider, Chief, Operations Office, to serve as the point of contact to receive your written comments and suggestions.

I look forward to working with you and, together, meeting the challenges ahead.

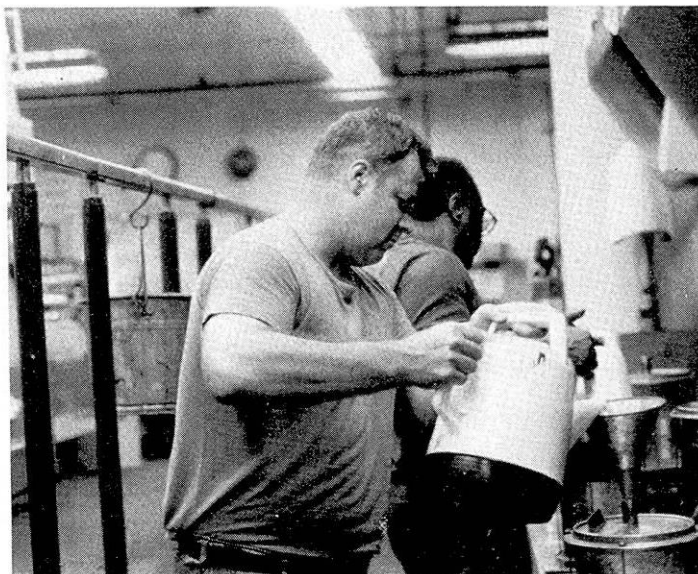
FY'89 DMS Resident Students

	<u>Total Students Taught</u>	<u>MT</u>	<u>GS</u>	<u>GA</u>	<u>CT</u>
U.S. Army	669	107	347	215	
U.S. Navy	131	46	6	79	
U.S. Air Force	103	64	13	26	
U.S. Marine Corps	129	35	62	32	
Unified & Specified Commands	10	10	—	—	
International	39	6	24	9	
Defense Mapping Agency	596	174	14	12	396
Other	31	27	—	4	
	<u>1,708</u>	<u>469</u>	<u>466</u>	<u>377</u>	<u>396</u>

Operation Desert Shield



SFC James L. Hollingsworth keeps a close eye on a press feeder.



SSG John F. Getshall mixes fountain solution for a five-color press. An HTC employee is in the background.

CONTOUR

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umerous military organizations are either deploying to Saudi Arabia or are working hard in support of the Desert Shield operations. The Defense Mapping School has also been in the picture and was called on by several units for support.

ISC Scott E. McDonald went to a local base to assist with resolving some APPS problems. McDonald was able to correct the problems and, while on site, provided refresher training to the APPS operators supporting one of the deploying units.

While MAJ Lloyd D. Carmack Jr. and CPT Michael R. Mason were on an MTT at Norfolk, Virginia, a coordinate conversion problem surfaced. Back at DMS, TSgt Michael S. Mustard was able to provide an immediate answer to the problem, using a laptop computer with the APPS ancillary programs installed.

The commander of a unit deploying from a nearby state requested that CPT William P. Smith assist them in their image processing requirements. CPT Smith was immediately dispatched and, working there for three days, provided advice on the best band combinations and image enhancement techniques for processing multispectral imagery of desert regions. He also coordinated with DMAAC for their assistance in rectification of an initial eight MSI scenes of data for the unit. This processing was completed in a short time frame, using a DMA Image Exploitation Workstation.

In early August, the Department of Graphic Arts was contacted regarding a problem encountered by this same unit. Both of the unit's cameras were deadlined and incapable of producing precise mapping accuracy products. It had been determined in a previous inspection that they needed to be returned to the service depot for repair and rebuilding, an exercise which would result in a minimum of six to nine months turn-around time. Since the time lag was unacceptable, DMS was contacted to see if we could get at least one of the cameras back on line.

Sergeants First Class Richard Rivera and Kenneth Harvey were selected to attempt the repairs. The two SFCs left Fort Belvoir at dawn one morning and by early afternoon were assessing the situation. A trained repairman from the deploying unit was assigned to help.

After total disassembly and inspection, it was decided that the camera was repairable on site and the crew could proceed. By mid-afternoon on Friday, the unit had regained a camera capable of mapping accuracy. Saturday and Sunday, SFCs Rivera and Harvey provided a review of basic photo instruction on producing line and halftone products for several of the unit press personnel. This also provided the SFCs an opportunity to inspect their work to ensure that the camera was working properly and that personnel were well-versed in its operation.

The two sergeants returned to Fort Belvoir, exactly seven days after they left.

In mid-August, we received a call from the Hydrographic/ Topographic Center, requesting our support for around-the-clock operation of two five-color printing presses due to the demands being placed on the DMA map inventory. When the request went out to the DMS instructors, the response was unanimous—100% volunteered participation.

— DMS pitches in —

A

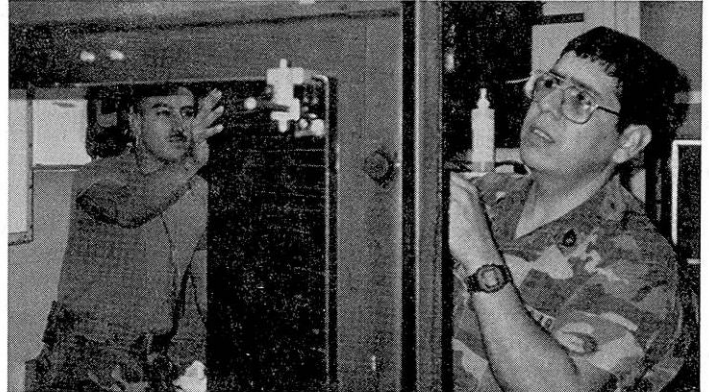
fter coordination between the chiefs of the DMS and HTC Graphic Arts Departments, DMS detailed 10 instructors to augment HTC personnel on rotating eight-hour shifts. This provided an excellent opportunity for the DMS instructors to put into practice what they preach!

As of late August, the 10 DMS instructors had completed 316 maps and 6.2 million impressions. DMS support is expected to last until the mission is accomplished.

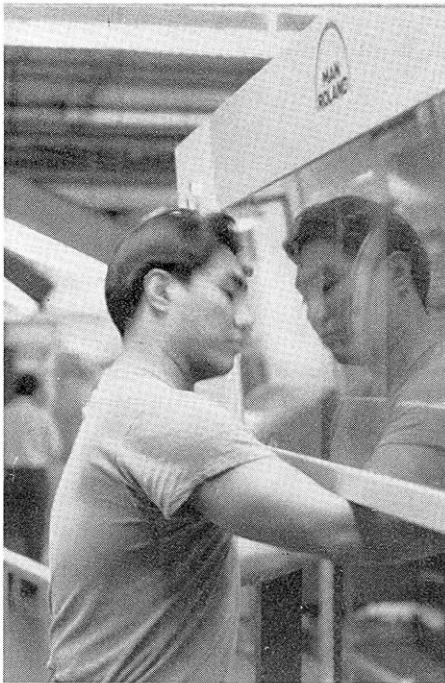
The Graphic Arts Department also received a request for technical printing support from a unit on the West Coast. Again, our instructors wholeheartedly volunteered (with bags in hand) to support that effort.

DMS is pleased to contribute to the Desert Shield operation and stands ready to assist wherever needed.

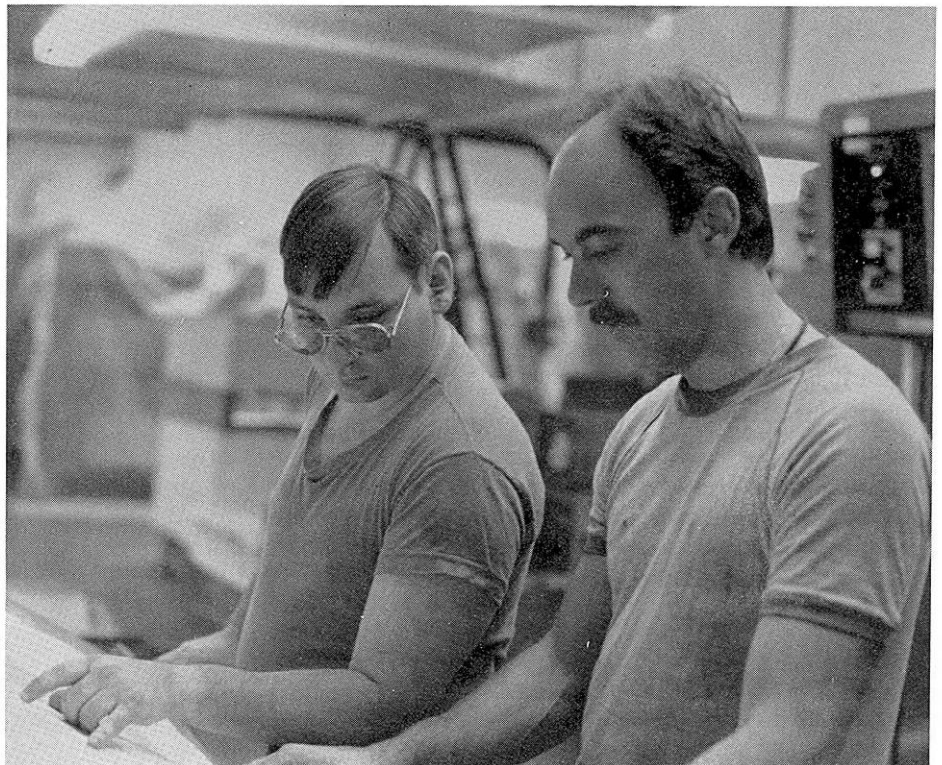
Contributing to this story were: Mr. David Miller, SMSgt Raymond Poole, and CPT William P. Smith.



Sgt Leonard Montelongo (I) of the requesting unit, and SFC Richard Rivera, DMS, align the planes of a deadlined camera. (Photo by Dave Miller)

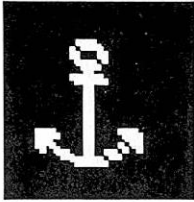


SFC Dwayne A. Ikalka pulls a map from the press.



SFC Stuart M. Lobel, DMS, (I), and Don Wyatt, HTC, check on the finished copy of a map.

DMS hosts Navy Senior Enlisted Symposium



On 26 July, DMS hosted the Naval District Washington Senior Enlisted Advisor Symposium. Master Chief Petty Officer William DeMattia, Command Master Chief for the MDW, called the meeting to discuss current personnel and quality of life issues impacting Naval personnel assigned in the Washington area--DMS included.

The guest speaker was CWO2 G.W. Vavases, Retired Personnel Support Branch, Navy Military Personnel Command, who provided an overview of the Survivor Benefit Plan (SBP). CWO2 Vavases said the SBP participation rate, especially among enlisted personnel, is very low. Before retiring from active duty, it is extremely important for all personnel to understand the facts about SBP and the benefit it offers over



LICM David A. Murray (far right) explains the offset plate-making process to symposium attendees. (Photo by SGM John S. Dodge III)

commercial insurance.

Following the symposium, Master Chief Lithographer David A. Murray, Chief Instruc-

tor, DMS Department of Graphic Arts, led a tour of the Defense Mapping School for the students.

LAB from page 1

order accuracy analog plotting instruments, photo marking devices and precise mono and stereo comparators. These instruments support courses in basic map stereocompilation, photogrammetry, fully analytical and semianalytical aerotriangulation, map editing, and line supervision.

Photogrammetric instruments in general have been designed for the stereoscopic viewing and plotting of pairs of aerial or terrestrial photographs and/or to perform aerial triangulation. They provide rigorously accurate analog solutions for object point positions from their corresponding image positions on overlapping pairs of photographs. Once the position of the point image is defined and registered to a reference plane (manuscript), the student draws the map from diapositives carefully prepared to exacting standards at a predetermined compi-

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lation scale.

With the arrival of the computers and the modernization and creation of interactive systems, the instruments provide a greater variety and a more accurate product.

Some instruments have been interfaced and/or can be upgraded to support computer controlled interactive systems to allow for a more modern approach to digital data acquisition for feature layering and manipulation.

For example, the Wild A-8's have been retrofitted with radial encoders and interfaced with a Zenith Z-248 and a software package to facilitate cartographic data collection.

The Wild AG-1 and the Kern PG-2 are self-contained systems with automatic cartographic feature code plotting (up to 999 symbols), thus freeing the operator from manual input, and software that allows for automated

orientation of the stereomodel minimizing operator's model setup time.

A fully analytical instrument, the Matra Traster, also brought from Panama, will support more advanced courses. This type of instrument is more in line with the latest developments and is rapidly becoming the "work horse" of the photogrammetric industry.

Looking at the future, we foresee all of our Wild B-8's and the Santoni G-6 upgraded for a nominal cost to facilitate the capture of data in digital format and to make this practice available in our instruction to our associate agencies in Latin America.

We are happy to announce that the photogrammetric lab is "up and running", with only a few minor details remaining to be taken care of. We would like to extend an invitation to all interested to come and see us; we're in Wheeler Hall, Room 120.

The European Mobile Training Team

(A Lesson in Organization)

Editor's Note: MAJ Lloyd Carmack, CPT Michael Mason, and Capt Dave Brumbaugh recently conducted MTT visits in Germany and England. Following is a commentary from CPT Mason on the trip.

by CPT Michael Mason, MTJ



Advanced planning: This is to say that one should be sure that the person who will receive the student training materials at each location in Europe knows that he is receiving training materials from you. Otherwise the materials may be: (a) returned to sender; (b) filed in the S-2 (Intelligence) section; (c) filed with the trash—or (d) divided up and distributed among (a), (b), and (c). It also helps if the person to whom you mailed your training aids will be present so that the mail clerk will let you have them (since your name is not on the mailing tubes). Do not mail your lesson slides. String-type postal packing tape is

provided to the U.S. government by the lowest bidder. Be nice to your point of contact (POC) at all times unless you don't care where you sleep, eat, or teach, or how many and who your students are. Do not mail your lesson slides.

Luggage: The number of pieces of luggage should never total more than the number of available hands. Do not pack your lesson slides in your luggage. Do not tear off the adhesive airline destination tags they put on your luggage handles unless it is your favorite adhesive. Your luggage will see more of the world than you will; do not pack your lesson slides in your luggage.

Travel Arrangements: There are two (or is it three?) offices which handle overseas official travel. No one you talked to will remember you when you call back and the person you talked to does not work there. Do not change your flights. Do not schedule different itineraries for various members of your training team.

Accommodations: The 649th Engineer Topo Battalion is located at Tompkins Barracks in Schwetzingen, billeting is located at Patrick Henry Village, and your BOQ room will be across from USAREUR Headquarters at Mark Twain Village. You cannot get from one place to the other. If you do, you will not be able to do it again. The 1:50,000 map they give you at the 649th has not been updated since 1945.

When you change locations and find out that your training conflicts with an unannounced Operational Readiness Inspection (ORI) at an Air Force base, do not be surprised to find yourself

living down in the village. DMA Finance in St. Louis does not care that an Air Force billeting office put you in a hotel where the cost exceeds the lodging allowance. The fact that you thoroughly enjoyed the lavish hotel which you thought the government was paying for also has no bearing on your case.

Ditto for London. Nothing is cheap in London.

Do not schedule RAF Mildenhall at the same time as the Bob Hope Tour. (I am certain that my BOQ bed was given to Brooke Shields!) The worst room at the Bird-In-Hand has the hotel water heater in its closet. The Bird-In-Hand water heater is fueled with JP-4 and sounds like the Concorde leaving Dulles a little behind schedule.

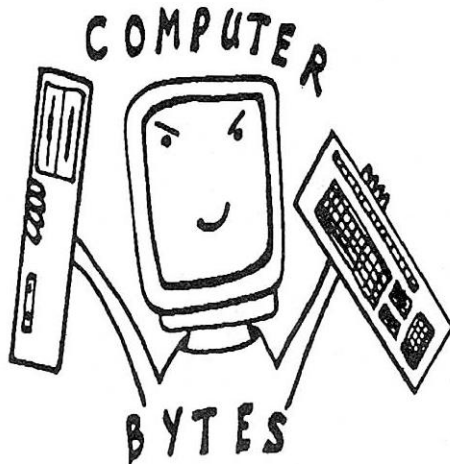
The (British) Officers Mess at RAF Honington is reasonable (33 cents per day), their meals inexpensive (free), and the service courteous (maids in the rooms daily and stewards for each table at the meals). It is also helpful to have the Wing (base) Commander declare you to be an exchange officer.

Rental Cars: The attack criteria for a Ford Taurus in Germany is not the same as that for a Ford Taurus at Fort Bragg. All Germans become fighter pilots the minute they get into the driver's seat. You cannot scream with the falcons if you think like a goose. Your passenger (navigator and threat detection officer) will want to fasten his seat belt before you start the car.

Your POC for the remote air base in England will be an airman with a broken hand who cannot drive. You will be forced to drive in England. The definition of terror is further clarified at your first traffic circle in Great Britain. Great Britain has no dearth of traffic circles...a plethora...eat up with 'em. When you rent a car in England, take off the left front hub cap before you scrape it off. I will never harass left-handed folks again. Conversations with your passenger (navigator and threat detection officer) will be monosyllabic...except during conversations with respect to the advantages of one side of the road over the other...then they will be colorful and animated. I dare say!

Miscellaneous: Do not tell your teammates that you (a) can speak the language, (b) know of a great restaurant just across the border in France, and (c) want to drive 20 kilometers out of your way to see a house built in 1306. Do not mail your lesson slides. Do not put your lesson slides in your luggage. Do not mail any of your teammate's lesson slides back to the U.S. after the first session.

Mission Accomplishment: Despite the validation of Murphy's Law on the May, 1990 European MTT, and due to the flexibility, responsiveness, sacrifice, and perseverance of the DMS team, much was accomplished. We provided APPS upgrade and training to the Air Force, presented five MICO classes to U.S. and NATO students, attended the European MC&G Conference, and gave a Mini-MICO to 85 UK students at the Ministry of Defense in London. Mission accomplishment was both a howling and a rewarding experience!



by Jim Davidson

Where can I learn more about this computer? What's this new sensitive unclassified security accreditation requirement? How am I supposed to manage these machines? You can get answers by attending classes in the Washington area and at nearby military facilities. Here are some places to learn more about your information resources.

At the Defense Mapping School, we routinely conduct DOS-based courses for the teaching and support staff at no charge. They include: Introduction to PCs/MS-DOS, Multimate, and Enable. Our instructors also present microcomputer training to students in the three academic departments (e.g., Ventura Desktop Publishing in Graphic Arts).

The DMA Eastern Training Center recently opened a small computer learning facility at the Naval Observatory. ETC conducts two-day classes in MS-DOS Workshop, Dbase III+, and Lotus 1-2-3. They plan to include word processing courses

soon. Costs are \$75-80 per day.

The DoD Information Resources Management College (IRMC)(formerly DODCI) is part of the National Defense University at the Washington Navy Yard. They offer training to Automated Information Systems (AIS) project managers, security officers, and acquisition and planning specialists. Most of the dozen IRMC courses are one-week long, at no cost, and open to both DMA civilian and military personnel.

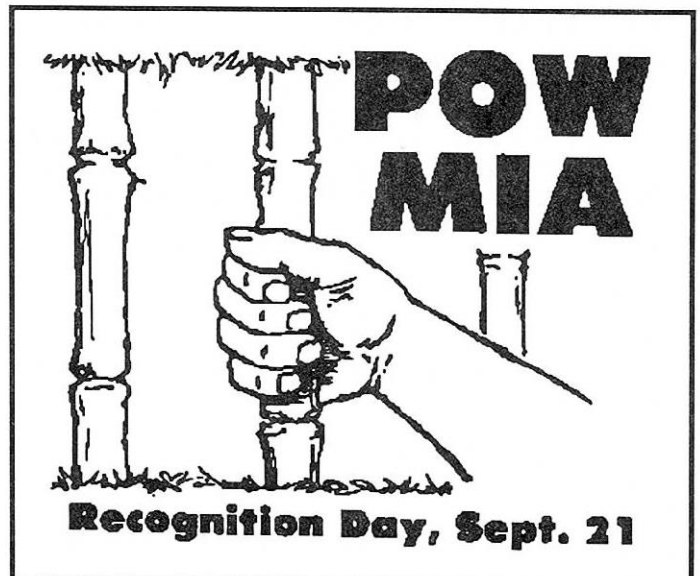
At Fort Lee, VA, the Army Logistics Management College, School of Logistics Sciences, is another excellent training source. ALMC has classes in Computer Communications for PC Users, Computer Literacy for Auditors, Computer Literacy for Acquisition Managers, and Security in Automated Systems. Courses run from five to eight days at no charge to DoD employees. Fort Lee is near Petersburg, VA.

The Navy Regional Automation Data Center Norfolk offers 25 microcomputer courses from one to five days each at about \$100 per day. Subjects include Z-248 Maintenance and Repair, UNIX Operating System, Microcomputer Communications, Introduction to LANs, Pagemaker, and C Language Programming. NARDAC is near the Norfolk Naval Base at Ward's Corner.

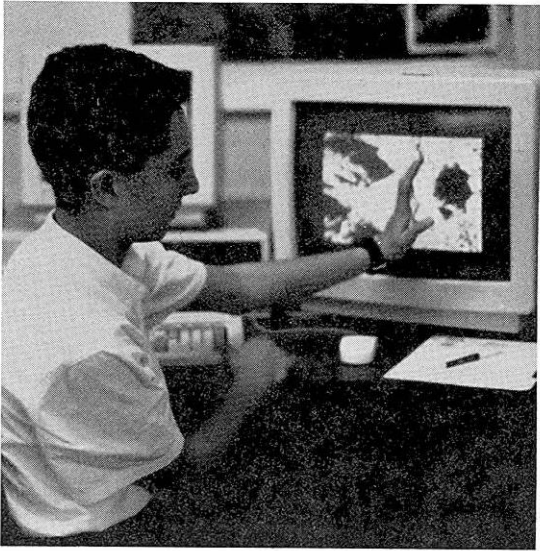
A large training source outside the Defense community, the Office of Personnel Management, provides 82 courses in 13 information technology fields. Categories include data base management, graphics, integrated software, programming, systems analysis, word processing, and office automation. The OPM Training Center is near McPherson Square in Washington. Most courses are one to five days at about \$150 per day.

For any of these courses, see your department training representative or the Education Advisor for assistance.

That's real nice, Jim, but what about us Mac users? OK, next month I'll list area facilities providing Apple Macintosh training and include popular Mac software courses such as MS Word, Excell, Foxbase and Pagemaker.

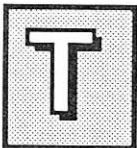


SCIENCE AND ENGINEERING APPRENTICE PROGRAM



(Top) Mike Solomon explains Multi-spectral Imagery to the tour group of SEAP participants.

(Right) Brian Dickens sets up the program for tour viewing as Mike Sisolak stands by to assist.



Three high school students worked with MT for the summer and did fantastic things. The students participated in the George Washington University-sponsored Science and Engineering Apprentice Program (SEAP).

Mike Solomon, a junior at Washington International School, did research in advanced image processing. Using Earth Resources Data Analysis Systems (ERDAS), Mike validated and updated all Multispectral Imagery (MSI) course practical exercises. He then went on to do extensive research in radar imagery applications, image rectification, image classification, and image enhancements.

Brian Dickens, a sophomore at Thomas Jefferson High School, and Mike Sisolak, a junior at Gonzaga High School, learned the new pcARC/INFO GIS program. They produced a series of Geographic Information Systems (GIS) practical exercises and taught them in the recent MSI course. Brian and Mike imported the new Interim Terrain Data (ITD) into ARC/INFO and produced a digital Cross-Country Movement (CCM) Overlay. They provided valuable insights when evaluating Digital Chart of the World, Prototype III. In addition to writing macros to tailor ARC/INFO commands to military applications, these two students

configured the hardware and software in the GIS/MSI lab so that it would work most efficiently by writing new programs and tweaking the systems in ways we hadn't dreamed of.

Most importantly, all the students imparted their knowledge to the instructors in MT, decreasing the train-up time for learning and teaching applications using multiple data base sources.

On August 2, they set up demonstrations for all SEAP participants on Fort Belvoir (about 40) to see what we do here at DMS. They gave demonstrations to U.S. Military Academy instructors and many others passing through the School.

How can these high school students accomplish so much? Because they are at the top in their respective classes and thereby qualified for the prestigious SEAP.

The SEAP began in 1979 when the Director of the Office of Science and Technology Policy in the Executive Office of the President asked Federal agencies to use their contract research programs to stimulate interest in careers in science and engineering among promising high school students. In 1980, there were only 28 apprentices; this year, there were over 700 in the National Capitol Area.

We, at DMS, were most fortunate to have had these three gentlemen here to work with us. They were invaluable!

--Story by CPT William P. Smith--

“Meeting The Challenge”

by SFC Kenneth Harvey

The Senior Instructor for the Navy/Air Force Basic Lithographer course at the Defense Mapping School has many challenges to face.

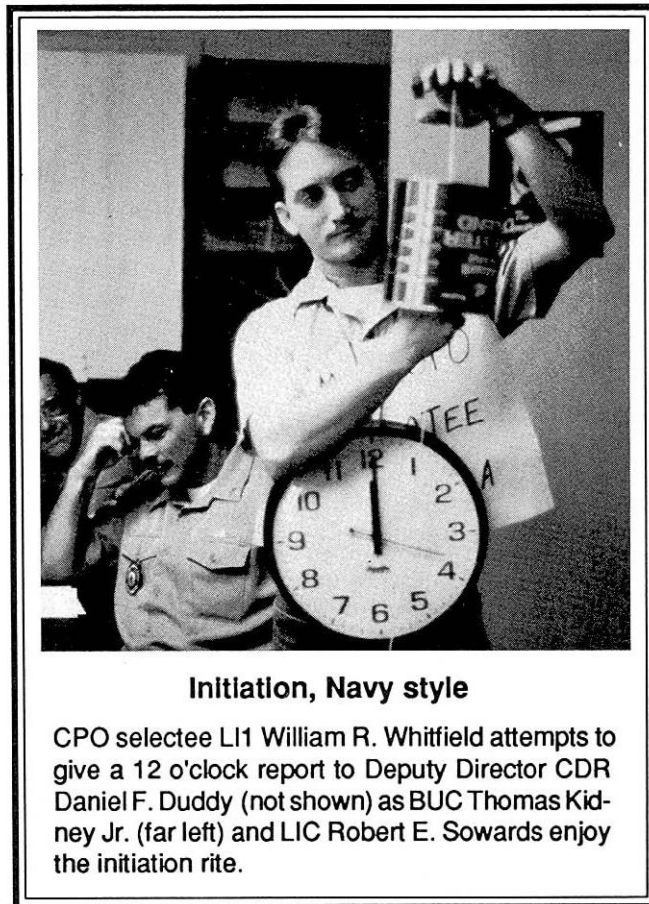
When I arrived here approximately one year ago as Senior Instructor, I expected to be challenged, and challenged I was!

Instructors at DMS are constantly working to accomplish the mission of the School, and in so doing, have many realistic challenges to overcome. The instructional mission of the School requires guidelines, policies, and procedures, which must be adhered to. A few examples are: DMSREG 8910.1-Operations Policy and Procedures, DMSREG 8910.2-Schedules of Instruction, and DMSREG 8962.1-Lesson Plan Preparation. These represent a few of the many in the DMS arsenal of publications. Familiarization with all of these publications is no small feat.

In meeting the challenge of being an effective Senior Instructor, “preparation” is important. Preparation is what it takes to get the job done. “Preparation”—does it mean hard work or does it mean work hard? In my opinion, the answer is neither. To me, the factors in meeting challenges are: will; drive; enthusiasm; self-confidence; and professionalism. When faced with a challenge, this is the time you must persevere.

The Defense Mapping School is an institution that has a “face” which requires “makeup”; and this “makeup” is not that of a cosmetic substance. I see myself as part of that “makeup”. NAAFBL instructors, as well as other instructors within the School, are a valuable part of the School’s “makeup” and they, too, must “meet the challenges”.

Again, as Senior Instructor for NAAFBL at the Defense Mapping School, I am here to tell you...the challenges are real!



Initiation, Navy style

CPO selectee LI1 William R. Whitfield attempts to give a 12 o'clock report to Deputy Director CDR Daniel F. Duddy (not shown) as BUC Thomas Kidney Jr. (far left) and LIC Robert E. Sowards enjoy the initiation rite.

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Beating the Busted Budget Blues

(Excerpted from an article by Lt. W. A. Wright, OIC, NOCD, Patuxent River, Navy Oceanography Command News, April 1989)

Will your consumable budget be tight this year? Do you need office equipment, but lack the funds? There is a mail order firm well stocked with a variety of new and used goods which offers free merchandise. You can order over the phone, and you will not be billed for shipping. It is called the Defense Reutilization and Marketing Service (DRMS), and it serves dollar-wise Department of Defense personnel around the world.

Often viewed just as a source of used office furniture, DRMS' full potential is rarely utilized. A little know-how can save a lot of money, freeing budgeted resources for other needed items.

The first step in using the system is to file a signature card with the local Defense Reutilization and Marketing Office (DRMO). This CONTOUR

allows quick procurement of locally disposed items (DRMS works on a first-come, first-served basis). Visit the DRMO every few weeks and let the Disposal Officer know your interests. You may get a call if a high value item is turned in.

Every mail order company has a catalog and DRMS is no exception. Their publication, the Excess Personal Property Listing (EPPL), is issued weekly. It contains hundreds of items and detailed ordering instructions. Although most material is not applicable to (all) offices, some useful items occasionally pop up.

Request distribution list placement from the Commander, Defense Reutilization and Marketing Service (DRMS-OCS), Federal Center, 74 N. Washington, Battle Creek, Minn., 49017-3092.

The most productive source of free material, especially consumables, is the DRMS Interrogation Requirements Information System (IRIS). Through IRIS, you can check the stock of every DRMO around the world. IRIS

provides the location, quality, quantity and other important data on any surplus item which is assigned a National Stock Number (NSN). If a desired item is not in stock, the NSN can be placed on file for up to a year. You will be automatically notified if the item is turned in during that time.

IRIS is simple to use. The system can be queried with just a telephone and a NSN. Call AUTOVON 932-5937 or commercial (616)961-5937, provide the NSN and stand by to copy the results. A follow-up call to the source DRMO will get the item shipped directly to your office. A word of caution—find out the unit of issue prior to delivery. You may end up with a pallet of widgets when you only wanted one!

DRMS is a lucrative source of everyday consumables, office equipment and furnishings.

Significant savings can be achieved by taking advantage of this service. In today's tight fiscal climate, we can't afford not to use DRMS.

How about that picnic!

For those people who were looking for good fun, good food, and good conversation, the Defense Mapping School's annual picnic on 6 July at Castle Park was the place to be.

This year's picnic seemed to have something for everyone. For the young, as well as the young-at-heart, it was a day of fun in the sun. Various forms of competition kept everyone busy. The Department of Geographic Sciences bested the MT 9 to claim the honors in the annual volleyball tournament.

Highlighting the picnic were the culinary skills of GS. Using not one, not two, but *three* large grills, the Department chefs turned out a barbecue feast of chicken, ribs, burgers, and dogs. From the corn bread muffins to the wet wipes for grease-soiled hands, GS executed their plan with precision.

As the day unfolded, the pieces of the picnic puzzle just fell into place and a euphoric pleasantness overtook the DMS crowd of approximately 400 people.

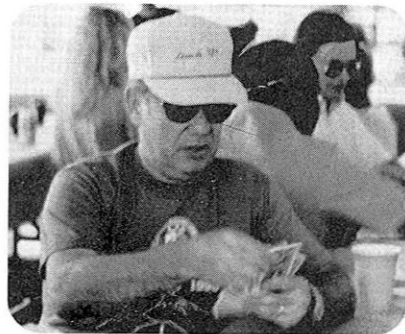
Although it may be a hard act to follow, next year's picnic is only 11 months away!



In the midst of the crowd, Jackle Schneider (l) and Jana Thompson have fun sharing secrets.



It may be chow time for dad and brother, but it's nap time for baby.



With dark glasses and visor cap, Jim Harnden *really* plays it close to his vest.

GA students enjoy the "boom box" before they head out to play volleyball.



THE BICENTENNIAL OF THE FEDERAL JUDICIAL SYSTEM

By Chief Justice Warren E. Burger
(1969-1986)
Chairman, Commission on the Bicentennial of the U.S. Constitution

When the founding fathers wrote the Constitution during the summer of 1787, creating the structure of a "national judiciary" was easy—they left it up to The First Congress. In a summer of dispute and compromise, this compromise by procrastination did nothing more than turn over to The First Congress the potentially volatile problem of establishing a federal judiciary.

Article III of the Constitution merely provided for a "supreme Court, and...such inferior Courts as the Congress may from time to time ordain and establish," as well as establishing tenure (during good behavior) and pay (cannot be diminished while in office) for Supreme Court Justices. It also lists the types of disputes that may be taken to a federal court, including the Supreme Court, and guarantees trial by jury. Article III concludes with a description of the crime of treason, the only crime spelled out in the Constitution.

The First Congress completed action on the nation's first judicial legislation on September 21, and on September 24, 1789, President George Washington signed the Judiciary Act of 1789, creating the office of Attorney General, 13 federal districts and 13 district judgeships and a means to review their decisions. The Judiciary Act put the District Courts at the base of a pyramid. The next level was the Federal Circuit Courts and the apex was the Supreme Court. Originally three judgeships for Circuit Courts were provided; a circuit court was made up of two Supreme Court Justices and one District Court Judge.

To sit on the first Supreme Court, President George Washington sought men he had worked with in the past and who shared his philosophy of a

strong central government. Three of his nominees, John Rutledge of South Carolina, James Wilson of Pennsylvania, and John Blair of Virginia, served in the Constitutional Convention and had signed the document. William Cushing of Massachusetts and James Iredell of North Carolina had carried the Federalist banner in their state ratifying conventions.

For the First Chief Justice of the United States, Washington again turned to a staunch Federalist, John Jay of New York. Jay was one of the leaders in New York's ratification battle, joining with James Madison and Alexander Hamilton to author *The Federalist Papers* in support of ratifying the Constitution. The first session of the Supreme Court was scheduled to meet in New York City on February 1, 1790, but only Chief Justice Jay and Associate Justice James Wilson had taken the Judicial Oath. The next day, John Rutledge and John Blair took their oaths, and the Court had an official quorum and convened for the first time.

For the first decade, the Supreme Court decided few cases. The Justices spent the majority of their time "riding the circuit," serving the three circuits created by the Judiciary Act of 1789. The Eastern Circuit included New Hampshire, Massachusetts (including Maine), Connecticut, and New York. Rhode Island was added after it ratified the Constitution on May 29, 1790. The Middle Circuit consisted of New Jersey, Pennsylvania, Delaware, Maryland, and Virginia. The Southern Circuit was made up of South Carolina and Georgia, with North Carolina added when it joined the Union on November 21, 1789.

When one considers that the most common means of travel was horseback or carriage, and the condition of most of the roads during this period of time, the burden and danger of "riding the circuit" comes into perspective. The days spent on the road, traveling from court to court, were extremely taxing. Justice Iredell was especially vocal in his antipathy for the circuit rider system. He complained of "leading the life of a Postboy," and asked Congress for some relief. As new states were added—Vermont joined the Union on March 7, 1791, followed by Kentucky in 1792



CELEBRATE
CITIZENSHIP IN
SEPTEMBER

CONSTITUTION
WEEK September
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and Tennessee in 1796—the burden of "riding the circuit" increased also.

In the beginning, the Court was not held in high esteem. John Harrison of Maryland refused President Washington's nomination to be an Associate Justice to take the position of Chancellor of Maryland. John Jay was elected Governor of New York while holding the position of Chief Justice. It was John Marshall, the fourth Chief Justice of the United States, who set the Court on the path that would eventually gain for it a co-equal status with the Legislative and Executive Branches.

Although Marshall had previously declined an appointment to the Court, he did accept appointment as Chief Justice in 1800, and the year 1801 began a great

See BICENTENNIAL page 13

AUTUMN SPORTS

Do You Want to Bowl?

by TSgt James E. Lobdell

Believe it or not, there is a bowling alley on post (near the PX) and there are many programs available for interested bowlers, both beginners and old pros. The fall leagues started in late August. All DMS employees and their family members can be accommodated by one or more programs.

For the military, we have the Tuesday Night Intramural League. Because it is tied to the post intramural program, it is restricted to active duty service members. Last season, DMS had only one team but could have entered several at the opening sign-up.

Open to all is the DMS Sunday Night Mixed Couples League. Due to waning DMS participation, the league was opened to everyone several years ago and is no longer an exclusive program. You don't have to be part of the DMS family, a couple, or even have a full team (two couples) to sign up.

Even the kids can get into the act with a Saturday Morning Children's League. Teams are randomly created from sign-up rosters by age group, and limited instruction is available for beginners.

All leagues are sanctioned by the American Bowling Congress and bowl under handicap regulations. Some leagues bowl only for trophies while others bowl for cash prizes.

Not interested in bowling on a weekly basis? No problem—King and Queen, No Tap, and Dutch Partners Tournaments are available. Reduced rates are available on Sundays and holidays for open bowling (Military, Dependents, or retired ID Card required). Need equipment? Again, no problem. The Belvoir Lanes has a well-stocked pro shop complete with custom ball drilling and repair capabilities under the supervision of Mrs. Barbara Batts. People from all over the East Coast come to Belvoir to have Mrs. Batts custom-fit their bowling equipment.

Sign-up rosters are now available for these and other leagues at the bowling alley, or you can contact TSgt Jim Lobdell at 664-1087 for more information. Come on DMSers, let's go bowling.

CONTOUR

"It's not over 'til it's over"

by MSG Herbert C. Schmeling

Legendary Yogi Berra uttered those famous words many years ago but, today, truer words were never spoken. The softball season for the DMS Unit Level team went on and on and on.

Just when they thought their 3-5 record would keep them from playing in the second half of the season, the sports office decided to allow all teams to advance to the second half. And the season went on!

With three games to go in the regular season, the team had a 1-3 second-half record in the National League. From out of nowhere came the "bats of August" and three straight mighty wins for DMS.

The season finale became a one-game season. Of course it had to be against the undefeated National League champions, MEDDAC. Up to this point, the DMS coach had played more than 25 people at game-starting positions throughout the season. From game to game, the team faced an ever-changing lineup due to injuries, TDY, illness, duty requirements, leaves and PCS orders. The team overcame their sub-par season as they upset the highly-touted MEDDAC team 15-9. This victory bounced DMS right into the playoffs. And the season went on!

In the first round of the playoffs, the DMS team faced the undefeated American League champion, INSCOM. Again, the bats came alive and the wrong team took the pounding. DMS, paced by a dazzling display of extra base hitting, pounded INSCOM 13-3.

But all good things do have a way of ending as DMS lost both ends of a twilight doubleheader, which led to their elimination from the playoffs. The emotional high of the INSCOM victory had made DMS, at least in their coach's mind, as the "team to beat". But through a series of freak happenings, the edge quickly dissolved.

DMS was to play a doubleheader right after the INSCOM game but the Pullen Field lights would not work and the game had to be postponed.

On the last play of the INSCOM game, Bill Belokon reinjured his wrist on a tag-out at the plate, making him unavailable for the rest of the playoffs. And true to form, the lineup nightmares of the first half of the season reappeared. Lacking timely hitting, DMS

lost to Davison Aviation Command 10-6 and 14-9 to the Law Enforcement Battalion.

For some players, the season was still not over. Chris Byrne, Bill Belokon, Dave Napier, and Bob Sowards were named to the National League All-Star Team. Due to Bill's injury and Chris's graduation from BGS, only Dave and Bob were able to play in the Post All-Star Game on 17 August. In the All-Star game, Bob Soward's timely hitting brought the National Leaguers back from defeat twice to force a ninth inning 9-8 cliff-hanger win over the American League.

Participants on this year's unit-level team were DMS instructors, students, and members of the United States Information Systems Software Center (who were released by their unit to play for DMS).

For the third year in a row, DMS fielded a softball team which made it to the playoffs. The first two years, the DMS "Over 30" team made it to the championship game. It is a

BICENTENNIAL from page 12

epoch in the history of this Court and of this country.

In his 34 years as the nation's chief jurist, John Marshall took part in over 1,000 Court decisions, writing 508 opinions himself. The leadership and the decisions of Chief Justice Marshall have been praised and discussed for almost 200 years. He is known as the "Great Chief Justice". Marshall's "building block" opinions gave the Court authority and prestige, confirming and defining the concept of judicial review, the scope of the Commerce Clause, and the Necessary and Proper Clause, which exist today. By the time Marshall had served 34 years on the Court, in 1834, the Court and the judiciary were firmly established.

October 1990

DMA

Multicultural

Awareness Month

September 1990

Battles fought in many forms

Many months of intelligence gathering and analysis resulted in a refined strategic battle plan. Carefully thought-out logistical efforts resulted in ammunition, food and drink to adequately sustain a three-day battle. Weapons were secured within the combat vehicle to ensure no damage during the high speed maneuver into the battle area. At 0600, the assault was launched.

No, this scenario was not in the Middle East. This battle was the Bass Masters Classic (the Super Bowl of bass fishing) held on the James River, Richmond, VA, 23-25 August 1990.

The battle plan was to win—no compromise. No one ever remembers who finished second. The ammunition was a wide assortment of fishing lures; the weapons were state of the art rods and reels; and the combat vehicle was a bass boat equipped with high tech, fish-finding electronics, capable of achieving speeds of over 60 mph.

This event featured 41 qualifying contestants—the top qualifying 36 professional bass fishermen and five qualifying amateurs throughout the United States. All of these qualifiers converged on the James River to do battle for the Bass Masters Classic title. As a result of the mutual respect among these anglers, they don't do battle against each other—they do battle against the fish.

Our own DMSer, SGM Carlos Sellers, was one of those prestigious qualifiers from within the amateur ranks. This position was earned over an 18-month period by winning four qualifying events throughout the United States against more than 4,000



SGM Carlos Sellers hoists largemouth bass #5 of his five-fish daily limit.

competitors

"I didn't win this battle," said Sellers, "but the immeasurable excitement and grandeur of the event will never be forgotten. Next year is just around the corner and losing one battle does not mean I've lost the war!"



Rear Admiral Guillermo Tirado, with the Military Mission of Peru, addresses Cartography C-201 graduating class 004-90, on 27 July. Colonel Hector Montalvan, of the Guatemala Military Mission, also spoke to the students. The class included four students from Peru and three from Guatemala.

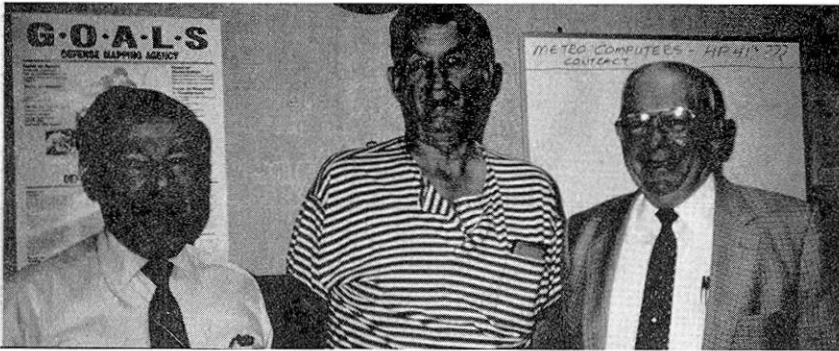
CONTOUR



Purple Heart plaque dedicated

(L to R) CW4 Thomas M. Besch, DMS Director COL Samuel R. Schwartz, and an unidentified official of the Military Order of the Purple Heart, Dept. of VA, view the Purple Heart plaque at Quantico National Cemetery. Besch, a master instructor in Geographic Sciences, assisted in the dedication of the bronze plaque on Purple Heart Day, 7 August 1990, at the Quantico National Cemetery. The plaque explains the origin and purpose of the Purple Heart and has engraved pictures of the original award, as first presented by General George Washington August 7, 1782, and the present decoration.

For additional information about the award, please contact Mr. Besch at 664-2492.



Former DMSer Back for Visit

Retired Staff Sergeant John Connor, (center) formerly a maintenance supervisor at DMS, is shown here with friends Jim Harnden (left) and Ches Cummins on a visit to the School this past summer. John, now a resident of Ft. Myers, Florida, has never forgotten his "old alma mater" and sends best wishes to all his friends.

QUARTERMASTER (QM)

There are 24 major occupational career fields for enlisted personnel in the United States Navy. Not all jobs are technical or mechanical. In fact, several may be described as "white-collar" jobs in the civilian market. Specialty marks were added to enlisted uniforms in 1866, generally representing the instrument used to perform the particular task.

Quartermaster — QM (insignia is ship's helm): Quartermasters help keep ships on safe, accurate courses. One of the oldest positions aboard ship, the quartermaster is considered the senior rating in formation, according to the 1914 *Bluejacket's Manual*.

Among the tasks to which they are assigned, quartermasters steer ships, use and maintain navigational equipment, take radar bearings and ranges, make water-depth soundings, make weather and celestial observations, plot accurate ship positions and courses for safe ship navigation, work with navigational charts and records, obtain and record data for the ship's log, operate and interpret electronic navigational devices and compute high and low tides and current velocity.

Although the tools may be modern, the responsibilities are the same: to keep the ship safe through skillful navigation, vigilance to shipping and natural obstacles, as well as reliable communications with other vessels and shore stations. Highly qualified quartermasters may command small craft as one of their assignments.

Civilian-related jobs include ship's pilot and quartermaster (water transportation).

Courtesy of SEA SERVICES WEEKLY —



October
is
National
Disability Employment
Awareness
Month

CONTOUR

DMS gears up for CFC

Staff Sergeant Larry Johnson, Logistics and Facilities Office, is the coordinator for the 1990 Combined Federal Campaign for the Defense Mapping School. Keypersons assisting SSgt Johnson are:



SSgt Larry Johnson

L11 Joseph Leach, Graphic Arts
Capt Timothy McCaig, Management & Technology

Mr. Jorge Toledo, Geographic Sciences
Mrs. Cris Becerra, Operations

Staff Sergeant Theodore Mohn and Sergeant First Class Franklin Quiros will serve as Division Coordinators for Geographic Sciences.

If any DMSers have been helped by one of the voluntary agencies supported by the CFC or have volunteered for one of the charities, please contact the editor, Joyce J. Beck, ext. 664-2182. Your story could be an inspiration to someone in need of help or who would like to work as a volunteer.



NEW ARRIVALS

COL Samuel R. Schwartz (USA)
MAJ John C. Jens (USA)

Maj. Michael M. Miller (USAF)
CPT Gregory A. McRoberts (USA)
SSG Jackie L. Brown (USA)
SSG Bruno P. Codispoti (USA)
SSG Eric Cruz (USA)
SSgt Mark Martin (USMC)
GySgt James D. Roppel (USMC)
Mr. Jorge A. Toledo
Mr. Robert P. Short

PROMOTIONS

SSgt Tommy D. Williams (USMC)
to Gunnery Sergeant

AWARDS

Joint Service Commendation Medal
TSgt James E. Lobdell (USAF)
TSgt Kevin B. Hartfield (USAF)

Air Force Commendation Medal
SSgt Larry R. Johnson (USAF)
TSgt Bradford W. Clark (USAF)

Army Commendation Medal
SSG Eric Cruz (USA)
SSG Julio E. Escobar-Ramos (USA)

Joint Service Achievement Medal
CPT Jonathan R. Clark (USA)

DIRECTOR'S CALL

Operator Badge-S
SFC Preston A. Bayne (USA)
SFC Kenneth Harvey (USA)

MASTER INSTRUCTOR

CERTIFICATES

Capt. Andrey Aristov (USAF)
SSG Maria Vigil (USA)

SENIOR INSTRUCTOR CERTIFICATES

MSgt David L. Miller (USAF)
GySgt James A. Rawllins (USMC)

CERTIFICATE OF ACHIEVEMENT

SFC Preston A. Bayne (USA)

OUTSTANDING PERFORMANCE

Mr. James H. Harnden
Ms. Barbara J. Windland
Ms. Maria C. Becerra

SPECIAL ACTS AWARD

Mr. Dennis N. Dodson
Mr. John O. Gates
Ms. Helga Yovorsky

CERTIFICATE OF SERVICE

Mr. John G. Aranza (35 years)

LETTER OF COMMENDATION

SFC John T. Flores (USA)
CPT William P. Smith (USA)

LETTER OF APPRECIATION

SFC William F. Belokon (USA)
L11 John E. Curtis (USN)
SSG Richard A. Green (USA)
SFC Dollen J. Garrison (USA)
BUC Thomas Kidney (USN)
SFC Stuart M. Lobel (USA)
SSG Theodore W. Mohn (USA)
GySgt James A. Rawllins (USMC)
LIC Robert E. Sowards (USN)

REENLISTMENT

DP1 Calvin Lloyd (USN)

WELLNESS PROGRAM AWARD

Ms. Maria C. Becerra
Ms. Charlotte L. Bernard
Ms. Loyola E. Krueger
Ms. Helga Yovorsky

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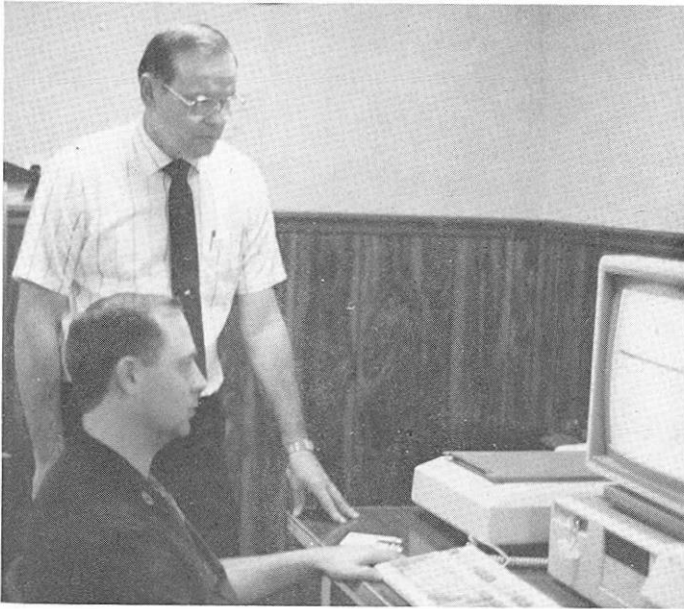


Defense Mapping School

CONTOUR

Volume 18, Number 1

October 1990



Mr. William Sutton, Training Supervisor in the Graphic Arts Department, watches as SFC Preston Bayne manipulates one of the desktop publishing systems loaned to DMS by the Navy.

Print Training Courses Taught At DMS

by Catherine McCloskey, John Aranza and William McCray

The Graphic Arts Department's mission is training military and selected civilian students in the production of printed material, such as maps, charts, and books.

Printing Technology - this simple term is more complex today than ever before. In the past, those words usually meant better film, chemistry, cameras, processors, platemakers and presses. Today, the term encompasses the use of computers and some of these advances in technology have found their way into our courses.

Last year, we moved into the Desktop Publishing (DTP) era in the


Navy/Air Force Lithographer (NAAFBL) course, where Navy students are taught the basics of DTP on exactly the same equipment they use in the fleet. The equipment is on loan to us from the Navy.

After basic instruction in Ventura Publisher's WordPerfect 5.0, the students are able to produce simple certificates and flyers. Since many of our Navy students have little or no computer experience, the eight days of instruction are always challenging and very popular with them.

The Air Force students then join the Navy students and the course continues for both services. They learn to photographically reproduce straight text, multicolored maps and continuous tone prints into line and halftone negatives and positives. They then move on to the layout and platemaking sections where they are taught to prepare bookwork flats and plates. When their training is completed in platemaking, they begin the second phase of the course, the press section.

Our Basic Photolithographic Processes (BPLITP) course is similar to, but somewhat more extensive than, the NAAFBL course. The student body consists of soldiers, Marines and selected civilians. These students receive training in camera operations and contact reproducibles for production of line, halftone, and continuous tone negatives and positives. In the contact reproducibles area, students are taught to produce composite map negatives and positives to

See TRAINING page 7



The Defense Mapping School 1990 CFC Campaign kicks off on 17 October with guest speakers COL Donald O. Davidson, Fort Belvoir Staff Chaplain; Ms. Jane Turner, Assistant Registrar, Defense Systems Management College; and Ms. Sidney Hickey from the National Military Family Association. The program will be held in the Bagley Hall Auditorium beginning at 1:30 p.m.

Director Opens CFC with Payroll Pledge

DMA Director Air Force Major General William K. James completes his payroll deduction pledge card for the Combined Federal Campaign as DMA CFC campaign chairman Curt Dierdorff looks on. The Combined Federal Campaign provides an opportunity for DMA employees to support community, national and international health and human services organizations.



DMA Training and Career Development Policy Set

"DMA stands on the threshold of many exciting, yet difficult challenges as we transition to a new production system and achieve the necessary manpower changes to respond to required downsizing targets," said Major General William K. James, DMA director, as he endorsed the new training, education, and career development policy for the agency.

The new policy incorporates issues addressed in the Work Force Survey and will allow DMA to meet its requirements for a skilled work force now and in the future. Key policy elements include:

- a. Establishing a rigorous process for defining requirements in non-discretionary training categories.
- b. Ensuring the DMA training, education and career development program is dynamic and responsive to changes in Agency management priorities
- c. Concentrating DMA's work force development efforts on the following top priority program areas, which are considered nondiscretionary:

(1) Technical Training includes Digital Production System training, Long-Term, Full-Time Training, and mission support training. It is designed to keep employees' skills current in their occupational areas,

CONTOUR

as needed.

(2) Leadership Development is composed of an integrated series of mandatory, DMA-focused formal training and rotational development activities. Leadership development ensures that DMA develops and maintains a competent, motivated corps, capable of managing human, technical, and material resources effectively to meet priority Agency mission requirements.

(3) Career Development focuses on developing a talented cadre of employees to meet key position skills requirements in mission and mission support functions now and in the future.

(4) Employee Orientation and Enculturation is a DMA-wide program of formal and informal courses and activities to help new employees understand and assimilate DMA military and civilian culture, operational environments, value systems, and overall management philosophy. This program also engenders understanding and continuing support among all employees for changes affecting the DMA mission and work environment.

(5) Management Teamwork Development pertains to a formal training process within DMA to enhance interpersonal and group skills and work practices in order to improve employee problem solving, coordination, and communications effectiveness.

The Director's Corner

Our International Heritage

We MC&Gers come from a variety of backgrounds and cultures that truly give us an international flavor. October marks the second year for the Defense Mapping Agency to recognize Multicultural Awareness Month and the Defense Mapping School has celebrated Cultural Heritage Day for a number of years.. This period of time is set aside to highlight the contributions of individuals from varied and diverse national cultures and traditions. Many things have happened here that reflect the School's commitment to support our global mission.

Over the past year, we trained 32 international students and this year expect to train 61 more at Fort Belvoir. These students represent Canada, Japan, The United Kingdom, Egypt, Turkey, Spain, Zimbabwe, Thailand, Kuwait, Pakistan, The United Arab Emirates, Yemen, Korea, Jordan, The Philippines, Jamaica, Taiwan, Indonesia, Greece, Nigeria, Kenya, Saudi Arabia, Australia, Sudan and Tunisia. Our Latin American coproducer training has already reached Bolivia, Chile, Ecuador, Guatemala, and Peru since its recent move from Panama and is expected to significantly grow.

Many of our staff and faculty hail from countries as disparate as Columbia, Guam, Panama, Peru, Jamaica (West Indies), Germany, Puerto Rico and Mexico. Others have roots that trace to Hawaii, Japan, Korea, Africa, Eastern Europe, Russia, Scotland, Ireland, Italy and Spain. Of course, our mobile training teams are sent throughout CONUS and the world.

This situation provides us the unique opportunity to learn more about one another in an informal, friendly setting. The School not only plays a key part in helping students learn the technical aspects of mapmaking but also provides them the tools to gain social acceptance and the ability to function in a host nation with a culture and traditions quite different from their own. Our International Student Detachment, led by MGySgt Paul Mason, offers students a central point of contact from which many supporting and culture-sharing events emanate. New friendships and personal associations form bonds that transcend international boundaries and political restrictions.

We will recognize our multinational background and national Hispanic heritage with an active Cultural Awareness Day filled with programs and events that provide us the chance to share our diverse ethnic and cultural origins with others here at the School



COL Samuel R. Schwartz

and Fort Belvoir. Our day will be highlighted with guest speakers, Ms. Martha Nelson of DMA Headquarters, and Mr. Carlos Angel, of our Geographic Sciences Department, who will discuss The Importance of Being America. Films will focus on American immigration. A food fiesta of international foods and beverages is being prepared by DMSers. Entertainment will be provided by the Bell Multicultural High School Jazz Band, and SGM Carlos Sellers will provide guitar accompaniment to Mr. Nick Mosura. Mahina and the Kane Leos, with his Polynesian Dancers (of which our own SFC Dwayne Ikaika is a member) will also perform.

Our Heritage Day offers all of us a welcome opportunity to recognize the multicultural influence on a worldwide profession we call Mapping, Charting, and Geodesy, to which we all can personally and professionally relate.

Safety and Occupational Health Policy Statement

by COL Samuel R. Schwartz

The most important asset of the Defense Mapping School is its people. Without them, the School's mission could not be accomplished. The safety and health of our employees, therefore, are vitally essential and our policies and actions must contain provisions for safeguarding them.

Managers and supervisors at all levels must be aware of their responsibilities for providing a safe environment in which their people may work without fear. It is also important in our student/instructor relationships that we provide positive guidance and direction in the principles of safety and occupational health.

The line supervisor is the key individual in the DMS Safety Program

because of his/her direct contact with the employees. With the guidance of top management, the line supervisor is charged to support safety programs and policies, train employees in the hazards of the workplace, ensure that safe work practices are followed, investigate accidents and file required reports, detect and correct unsafe conditions in assigned work areas, and ensure that personal protective equipment is available and used in the work area, as required.

The importance of each individual is the foundation of the DMS Safety and Occupational Health Program. I ask your help and cooperation in making DMS an even safer place in which to work.

DMS "adopts" Cheney Elementary

The Defense Mapping School, in an agreement signed on 20 September 1990, "adopted" Cheney Elementary School as part of the Fort Belvoir "Adopt-A-School Program". The article below explains how the program works.



Adopt-a-School is the Fort Belvoir community's commitment to 2100 elementary school students at Barden, Cheney, Markham, Woodlawn and Woodley Hills Elementary and 2200 students at Hayfield Secondary School.

The personal reward of helping a child or young adult grow and learn.

Pride in our government for caring enough to let us make a difference.

Why is it so important?

Not all children learn at the same speed. The Adopt-a-School tutors, meeting one-on-one with students, provide the extra help and attention many children need to succeed.

Many youngsters need a friend and positive role model. Lunch pals become the "big brothers" and "big sisters" to those children.

Today's youth are the decision makers of tomorrow. As contributors to our national defense, we have a wealth of expertise and positive influence to develop our community's youth of today...and for the nation of tomorrow.

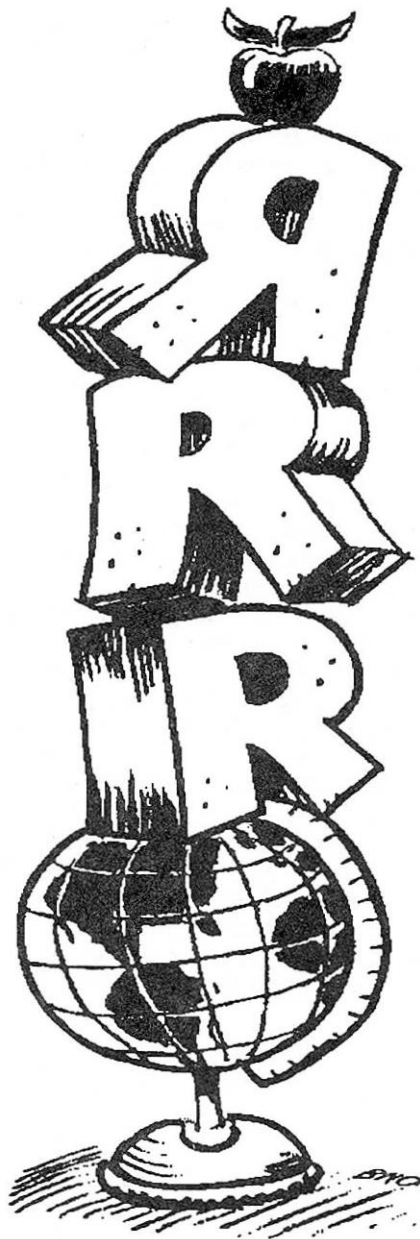
How can you get involved?

If you can contribute one hour a week or two hours a year, you can make a difference in a child's life through the Adopt-a-School program.

If you can make a weekly commitment to a child, the tutoring and lunch pal programs provide the chance to work one-on-one and develop a special friendship with your "pal". TUTORs help their pals learn to read, write or solve math problems. LUNCH PALS eat together in the school cafeteria each week. It's a time to talk, listen or play catch on the playground.

If you travel a lot, or find it hard to make a weekly commitment, you can be a GUEST SPEAKER, CHAPERON or JUDGE.

As a guest speaker, you can speak to a



class on your favorite topic, like space exploration, African art, your trip abroad. Be a judge at the annual science fair. Spend time at the school computer lab or invite a child to career shadow you at work. Chaperon a field

Tutor

This program requires a weekly commitment for approximately 30 minutes to one hour—you choose the amount of time you can offer. You can meet with your child before work, during your lunch or during the work day.

Lunch Pals

Be a friend or role model to a child. This requires a weekly commitment for approximately 30 to 40 minutes. Bring your own lunch or sample the school menu for about \$2.00.

Guest Speakers

You can volunteer to speak to a class or group of students for 20 minutes or one hour—however much time you can spare—on the topic of your choice. This program is ideal for those who travel or can't meet a weekly commitment to one child. If you're not sure what to talk about, the schools will request subjects that enhance the schools' annual curriculum.

Judges

Take one or two hours to be a judge at the annual science fair or other school events.

Volunteers

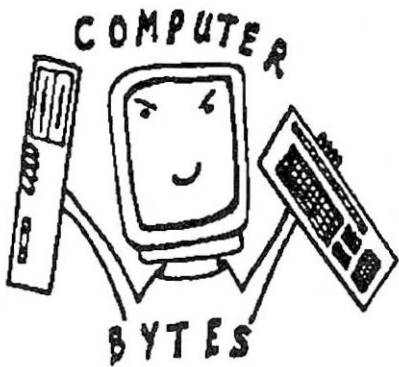
If you'd like to volunteer your talents, but you are not sure how, call a member of the steering committee and let them know of your interest. Throughout the year, things come up and they will keep you in mind.

Special Activities

If your organization has programs that would enhance the school's programs for teachers or students and you would like to provide this program, let the steering committee know.

- Courtesy of Community Family Activities-

Editor's Note: An additional way we can help Cheney Elementary is to save grocery receipt tapes that can be redeemed for free computer systems, printers and software. Call me on ext. 42182 for more information. Send your receipts to me and I will be happy to forward them to the school.



by Jim Davidson

There are several Apple Macintosh and DOS-based local computer training sources.

Falcon Microsystems offers 69 Macintosh topics from introductory to advanced level. Most courses are one to three days at about \$200 per day. Subjects include Introduction to Macintosh II, Excel, FoxBase, PageMaker, PowerPoint, MacProject II, Macintosh System and Network Administration, and How to Select Macintosh Hardware and Software. Falcon also offers 15 DOS-based courses. The Falcon Federal Support Center is above the Crystal City Underground.

Future Enterprises, Inc. presents 12 Macintosh courses. Programs run from four hours to two days at about \$200 a day. They include Introduction to Macintosh, MS Word, WordPerfect, Excel, PageMaker, Cricket Draw, and Cricket Graph. They also offer 96 DOS-based courses. Their Center for Information Technology Education is near Metro Center in downtown Washington.

The MacAcademy gives two-day workshops in Beginning and Advanced Mac, Excel, FileMaker, PageMaker, Works, and HyperCard. All subjects are covered by continuous two-hour sessions in separate classrooms. You may choose to mix or repeat courses by moving from class to class. The 14 hours of instruction cost \$249, or \$298 for an additional two-hour evening session. Workshops are conducted at the Sheraton Reston Hotel and the Holiday Inn Inner Harbor (Baltimore).

Fairfax County Adult Education offers Introduction to Macintosh (six three-hour sessions for \$83) and Computer Graphics by Design using PageMaker and McDraw software (five two and one half hour sessions for \$59). Classes are in the evenings at local high schools. The Adult Education centers also offer 30 DOS-based courses in beginning computers, word processing, systems and software, and computer programming.

They include Computers for the Beginner, Computers for Parents, Intermediate DOS, Advanced dBase III+ for Non-programmers, Introduction to Harvard Graphics, Introduction to Ventura Publisher, and Introduction to ADA.

Another source for inexpensive training listings is the "Computer Calendar." It appears in The Washington Post's business section on Mondays. The Computer Calendar gives information on dozens of local Macintosh and DOS-based courses, seminars, and software demonstrations.

Contact your department/office training representative for additional information.



Mr. William Revell, DMS technical director, presents a Blaeu map to Ms. Phyllis Farris, Chief, Midwest Training Center, for her support of the School's ITC team. (Photo courtesy Public Affairs, DMAAC)

During 10-20 September 1990, the final DMS presentation of the Instructor Training Course (ITC) was presented at DMAAC.

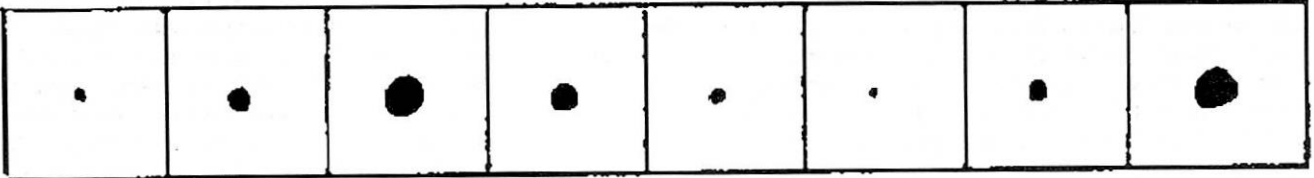
Mr. William Revell, technical director at DMS, was on hand for the graduation ceremony. He took this opportunity to award Ms. Phyllis Farris, Chief, Midwest Training Center, with a Blaeu map, thanking her for the manner in which she had supported the ITC team members since 1987.

Under the DMA reorganization, and with the creation of the Human Resource Management Directorate, DMAAC will assume responsibility for providing the Instructor Training Course and Effective Briefing Course to their employees.

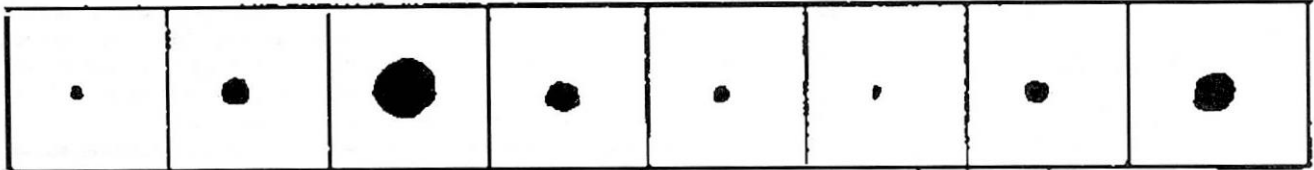


THE GAME OF RAQUETBALL VIEWED FROM:

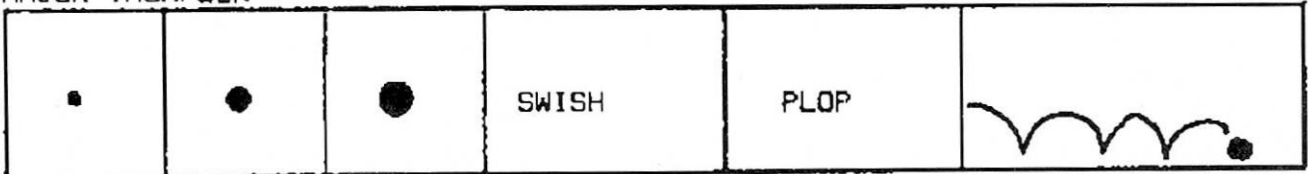
CWO HENRY



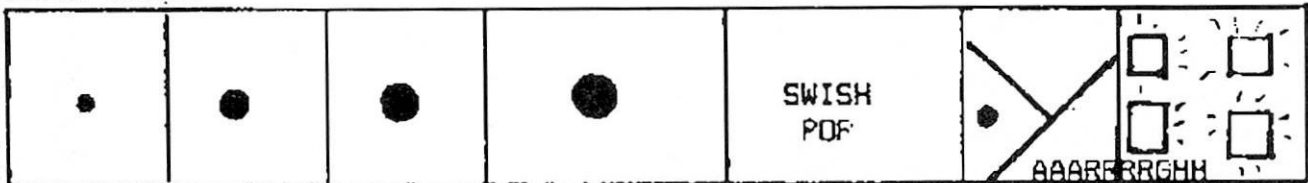
GYSGT PAULEY



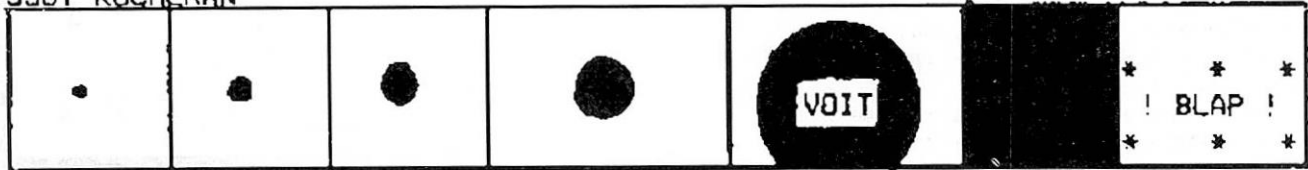
MAJOR THOMPSON



GYSGT CHISM



SSGT KOCHERAN



GYSGT WRIGHTSMAN



by GySgt James A. Chism

TRAINING from page 1

within allowable tolerances for registration. In addition, they learn to calibrate and operate: the GAM III photo exposure computer, a precision instrument which automatically computes and compensates copy range exposure time; the LogEtronics Contact Printer/Enlarger, which produces contact prints of aerial photography for maximum detail in all areas; and densitometers, which are used for measuring reflection or transmission densities of prints and negatives. After camera operations and contact reproducibles, they move to the layout section where they learn to produce lithographic flats containing up to 12 forms, and assemble negatives into the correct format for the production of books. They also learn to register five-color maps and make color proofs to check for exact registration of all map features.

The Basic Offset Printing (BOP) and the Navy/Air Force Basic Lithographer (NAAFBL) courses also provide students with apprentice-level skills and knowledge necessary to set up medium-size, sheet-fed lithographic offset presses to print bookwork and multi-color topographic maps. Setup includes the printing section (plate cylinder, to which a presensitized metal plate comprising an image and nonimage area is attached; dampening system, to supply the nonimage area of the plate with an acidic solution to repel ink; inking system, to provide the image area of the plate with ink to be transferred in reverse; and blanket cylinder, which contains a rubber blanket that receives the image and transfers it, in reverse, to a sheet of paper), and the sheet separation and forwarding mechanism (sheet transport and register system, impression cylinder, and delivery mechanism). Because of the accuracy required in image positioning and image quality, emphasis is placed on correct installation of the plate, blanket and packing, pH control, ink and water balance, and precise setting of all register devices. Knowledge of some of the chemicals used in industry and chemical handling is acquired through the use of chemicals and chemical formulas throughout the courses.

Procedures and operation of related pieces of bindery equipment are given to complete the finishing steps for previously printed press products. Operator equipment preventative maintenance and equipment and personal safety is stressed continually during the courses. Machine malfunctions due to broken or damaged parts, incorrect timing, etc., (other than normal operator adjustments) are the responsibility of the personnel trained in the Reproduction Equipment Repair Course (RERC).

This course trains experienced offset press personnel on advanced techniques required to troubleshoot and repair mechanical functions of offset duplicators, medium-sized offset presses, and lithographic copy cameras.

In the Duplicator Phase, instruction is given on timing of the vacuum feeder, to include, systems alignment and adjustments; test operation of the vacuum feeder and register group; disassembly, reassembly, and timing of components of the duplicator. Reassembly and timing of the duplicators is verified by running test sets from feeder to delivery tray and checking register.

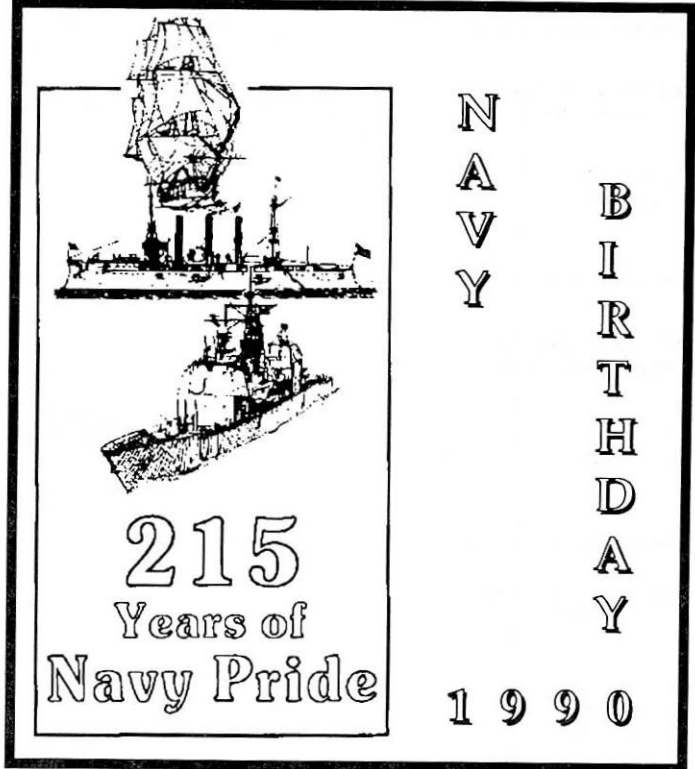
In the Medium-Press Phase, instruction is presented on adjustments and timing of the press, disassembly, and reassembly. Verification of adjustments and timing is accomplished through test operation of the medium-press and checking register.

In the Camera Phase, instruction is given on disassembly, repair,

reassembly, trammeling, calibration and test operation of the process copy camera. The process camera is used to prepare line and halftone negatives required in map reproduction. Since the making of negatives is the first step in reproducing a map (from original, to negative, to press plate, to printing), the quality and accuracy of the negative controls the quality of the entire reproduction sequence.

The Advanced Lithography (ALITH) course students are Army E-5 and above who receive training in the advanced photolithographic processes in both the prepress and press area. They also receive a high concentration of training to become technical managers for lithographic project planning, production management methods, equipment maintenance supervision techniques, and lithographic materials inventory management.

Upon completion of the courses, our military graduates are assigned to topographic and psychological warfare units, aircraft carriers, and base print plants. The civilians return to jobs at U.S. Geological Survey, Library of Congress, DMA Hydrographic/Topographic Center, and other Government agencies.



The **CONTOUR** is published monthly by and for the Defense Mapping School. Contents are not necessarily the official views of, or endorsed by, the U.S. Government, the Department of Defense or the Defense Mapping Agency. Editorial content is edited, prepared and provided by the Public Affairs Office of the Defense Mapping School.

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Fort Belvoir, VA 22060-5828

Pet Peeves

by TSgt James E. Lobdell

We all have them. Those little things that drive us insane. Mine is common sense. Growing up, I heard a thousand times, "He isn't smart enough to come in out of the rain."

What has happened to common sense? How many of us so carefully ask for the carbons when we make a credit card purchase? Are we so foolish? Why would a dishonest merchant take our card number from the messy, hard-to-read carbons when he has a clean, readable original copy. Or is it that there are people who specialize in massive trash searches for credit card carbons.

I think that it has become a national pastime to ignore common sense. American Express was the first to recognize that there was a need to provide protection for a lack of common sense. I would hesitate to admit that I taught my son how to feed my VCR oatmeal, or how to use the shelves in a china cabinet as a ladder. Now banks are offering the same service on checking accounts. Has anyone forgotten that the same items are protected from theft and vandalism by household insurance policies.

We even have a television program that is dedicated to those brave individuals who rush to the aid of others in emergencies. It is too bad that 90 percent of those rescues shown would not have been required if people had used common sense.

Drive through any housing area on post and count the number of children under the age of 6 that are outside without adult supervision. How long does it take to have a child forced into a car? How quickly can a child chase a ball into the street or drown in a wading pool?

Even the leadership of this country shows no common sense. Vote yourself a nice big raise when the rest of the government is enduring budget cuts. Senator Proxmire used to give the "Golden Fleece Award" to those who made the biggest errors in government spending due to a lack of common sense. Hence the \$1,000 toilet seats, or the \$700 hammers. What about the regulation that says that all doors must be marked with an "EXIT" sign even when it is only a small office with one door.

How much money, pain and injury could be saved if we not only asked "Is it safe?" but "Is it sensible?" Perhaps we should strive to make the phrases "Common sense is not common", and "Common sense is an uncommon virtue" as extinct as the dinosaurs.

CONTOUR

DIRECTOR'S CALL

NEW ARRIVALS

LT Rebecca E. Stone (USN)

DEPARTURES

Military

CPT Jonathan R. Clark (USA)
GySgt Werner V. Hofer (USMC)

Civilian

Mr. John L. Bassett
Ms. Loyola Krueger
Mr. Philip Mobbs
Ms. Julie Stovall

PROMOTIONS

SMSgt Gerald A. Smith (USAF)
to Chief Master Sergeant

AWARDS

Military

Joint Service Achievement Medal
SFC Kenneth Harvey (USA)

Civilian

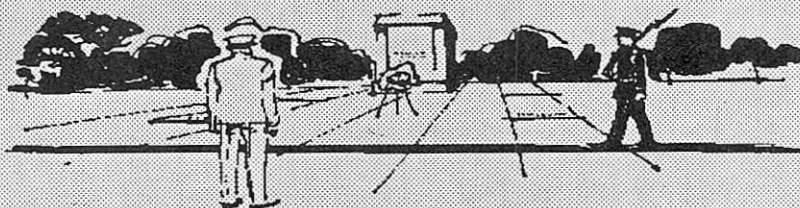
Special Acts Award
Mr. Dale A. Cuave

CERTIFICATES OF ACHIEVEMENT

CPT William P. Smith (USA)
SFC Paul Swartz (USA)

LETTER OF APPRECIATION

SFC William F. Belokon (USA)
SFC Stuart M. Lobel (USA)
LI1 John E. Curtis (USN)
GySgt James A. Rawllins (USMC)

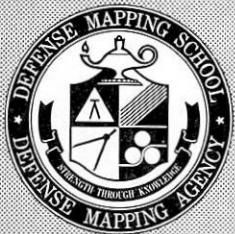


VETERANS DAY • Nov. 11

Defense Mapping School

Fort Belvoir
Virginia 22060-5828

Official Business



Defense Mapping School

CONTOUR

Volume 18, Number 2

November 1990



Craig Cummings (L), from HTC, accepts the team award for Low Net-Mixed from COL Samuel R. Schwartz, director of DMS.

15th Annual DMS Golf Tournament big success

by Bill Sutton

Under very cloudy skies, with the threat of rain and wind gusts of at least 30 mph, 103 golfers from the various components of the Agency teed off on 11 October in the 15th Annual Defense Mapping School Golf Tournament. The wind proved to be a real challenge on the very difficult par-71 Fort Belvoir North Post golf facility. A few scattered showers did dampen the spirits a little, but no significant amount of rain fell during the tournament.

Even though the winds made the course difficult, the scores turned in at the end of the day were excellent. The Low Net score of 10-under-par was turned in by the team of Jim McCallister, Joe Carleton, Sal Soliz, and Jamie Lyons, all from HQ DMA. Second Place at

See Golf page 2

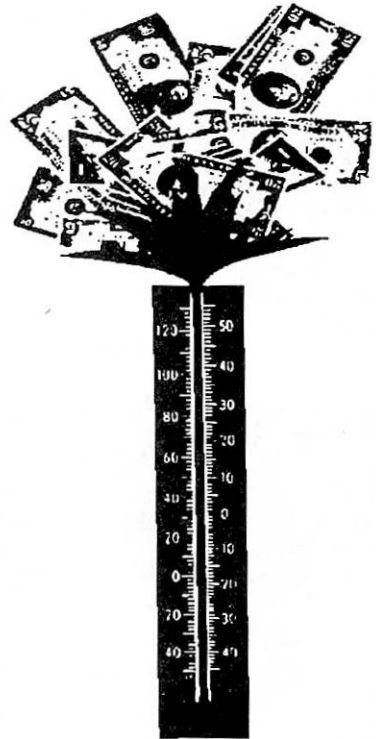
DMS over the Top!

Defense Mapping School employees and military personnel continue to distinguish themselves through their generosity. At press time, DMSers had contributed \$10,134 to the 1990 Combined Federal Campaign, surpassing the DMS goal of \$10,097. And more contributions are pledged!

The DMS annual drive kicked off on 17 October with an extremely well-organized and attended ceremony in Heitmann Auditorium. The event began with remarks by our Director, COL Samuel R. Schwartz. Mrs. Kay Ward, from the Na-

tional Military Family Association, spoke about NMFA's support of the military family on matters affecting their quality of life, while Ms. Jane Turner, from the Federal Employee Education and Assistance Fund, told how FEEAF helps Federal employees and their families by providing scholarships and student loans. Mr. Pierce Kemp, DoD loaned executive to DMA, talked about the DMA CFC goal. In closing remarks, Colonel Donald O. Davidson, post chaplain, spoke of how much we gain personally when we give to others.

Congratulations to all key workers and your departments for your dedication and effort. "BECAUSE YOU CARE... HELP IS THERE."



The Direct Line

by Maj Gen William K. James (USAF)
Director, Defense Mapping Agency

Time to get on with the job

The past weeks have been nothing less than disconcerting to all DMA employees, myself included, as we have tried to cope with the uncertainty of budget issues. Talk of potential furloughs; planning and replanning budget strategies; existing from one continuing resolution to another; and internal reorganization; all have taken their toll on our patience, and diverted our attention, not only as an agency but as individuals.

Now that the budget has been passed, it is time to look ahead and turn our full attention to accomplishing our mission....to doing our job. We make the best MC&G products in the world and thus we are a vital part of the defense establishment of this nation. More to the point—the warriors can't succeed without us.

I continually receive correspondence from commanders in the field attesting to the importance of DMA products and expressing thanks to DMA people who have labored long and hard to meet the MC&G requirements.

Two recent examples of how well we are doing have come from different viewpoints. One was a message from Army BG Jack Leide, the J-2 of CENTCOM, expressing the importance of, and the command's satisfaction with, some special mapping products DMA produced on quick response to meet command operational needs.

The other was a letter from Missouri Congressman Richard A. Gephardt after his meeting with senior commanders, field commanders and line troops during a tour of the theater of operations. The Congressman said, "Just a note to let you know how much I appreciate all the hard work that the Defense Mapping Agency has done over the past six weeks in support of our Armed Forces in the Middle East. The around-the-clock efforts of your people to ensure the adequacy of existing maps and charts, the production of new products, and their distribution did not go unnoticed by my colleagues and me on our recent trips to that area. We are very appreciative of all the fine work the Agency is doing."



Maj Gen William K. James

Obviously, I'm pleased that your outstanding contributions have not gone unnoticed. But even more satisfying is the knowledge that dedicated DMA people met the requirements despite distractions and uncertainties.

Message to all—thanks again for a job well done and keep up the good work. Our men and women in uniform expect, and must have, our undivided attention and our full support.



DMS retirees Jim Hey and Bill Griffith (L to R in background) ponder Will McCullough's long putt on No. 18.

Golf from page 1

9-under, went to the foursome of Andy Anderson, Jeff Winslow, Frank Aury, and Vince Novatka. The prize for Low Net-Mixed went to the team of Terri Fletcher, Matt Gonsalvas, and Craig Cummings. Finish-

ing off the team winners at plus-8 for the High Net was the team of Lloyd Carmack, Tom Kidney, Lynn Keleher, and Herb Schmeling, all from DMS, who indicated they had fun even though their score was high. The Longest Drive of the Day went to Glen Mulkey. Comments from several players who are club members indicated they had never seen a drive as long as the one Glen hit on No. 11. To top that, Glen also hit the longest drive on No. 1, but graciously conceded his second drive prize to Jim Jancitis from USGS. The two Closest to the Pin awards went to Ken Bobeck on No. 7 and John Beckner on No. 18. Total prize money, to include door prizes, brought the purse for the tournaments to over \$625. Colonel Samuel R. Schwartz, director of the Defense Mapping School, presided over the awards ceremony.

Of the 103 golfers participating, six players were past members of the staff and faculty of the School. Recognized were: William B. Griffith, LTC, USA (Ret); James Hey, LTC, USA (Ret); Wilbur McCullough, CWO, USA, (Ret); Al Yovorksky, CWO, USA (Ret); Karl Abt, MSG, USA (Ret); and Mark Windland, MSG, USA (Ret). Also appreciated were the individuals who acted as points of contact at the various components and without whose help the tournament would not have been as successful as it was.

A cookout on the patio of the clubhouse finished off the tournament. All in all, the weather held up, the food and drinks were plentiful, and we are looking forward to hosting the 16th Annual DMS Tournament next year.

The Director's Corner

November offers us a time to reflect upon things that are close to home. The Thanksgiving season emphasizes family, friends, the community and the harvest of the past years hard work. For us DMSers, the School also provides our work-a-day family, with whom we can join together and give thanks for the good life we enjoy and opportunities that abound for us to make someone else's life a bit brighter.

Our first thoughts go out toward the men and women directly participating in Operation Desert Shield. Their total support of the principles of Freedom, Democracy, and Human Rights reflects the sacrifice, hardships and toil faced by those who celebrated the first Thanksgiving feast some 370 years ago. It has been said that one of the best ways to appreciate your

loved ones and your home is to make a trip halfway around the world without them. And that is exactly what several thousand of these folks are doing today.

But there are many others who also give without fanfare or reservation. Our SSgt Larry Johnson assumed the position of coordinator for this year's DMS Combined Federal Campaign. He and his key persons, along with the generosity of those who gave, even in these times of turbulence and uncertainty, resulted in achievement of our monetary goals and hope for someone less fortunate than ourselves. "Because we cared... help was there."

DMSers can be found in activities involving the Scouting program, teaching in Sunday schools, serving as team mothers, coaching youth sports, and volunteer-



COL Samuel R. Schwartz

ing the time, skills, and love for children in the Adopt-a-School Program here at Fort Belvoir. The list keeps growing and the opportunities to share are endless. Remember, the best kind of charity is the kind that helps others to eliminate any further need of it.

From my family and me to you and yours, a happy and safe Thanksgiving holiday.



We're all accountable!

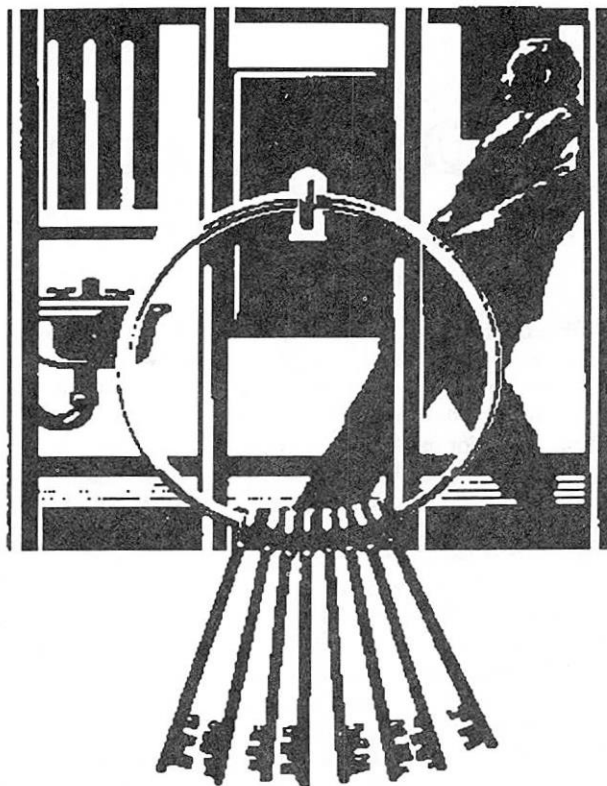
by MSgt Richard L. Johnson

Property Management is the process of properly allocating, accounting for, controlling, caring for, using and safeguarding property under the control of the Defense Mapping School. The process applies to each of us, whether or not property is received for or issued to us individually. We all are responsible for safeguarding the use of these resources.

Managing property is an obligation shared by all personnel, military and civilian, regardless of duty assignments and level of supervision or command. Pecuniary liability may be imposed for the loss, damage or destruction of DMS property resulting from unauthorized issue, gross negligence, willful misconduct, or deliberate unauthorized use. Additionally, personnel responsible for managing property may be relieved from their duties if an unsatisfactory condition is found which is attributable to inefficiency or other causes within their control.

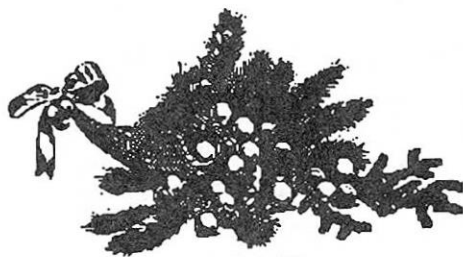
DMS employees should exercise supply discipline to ensure that requests for supplies and equipment are valid and in the minimum quantity necessary to perform the assigned mission. These assets are to be protected, conserved, and maintained in the best possible condition to meet DMS commitments. Hoarding of supplies or equipment is not authorized.

If you are presently assigned an additional duty as equipment custodian or newly assigned this duty, you should perform a complete inventory of all items listed on your equipment listing (CA/CRL) before signing for the account. If assistance is required, don't hesitate to call the Logistics Division. Once all property is accounted for, sign for the account and ensure equipment accountability is maintained by periodically inventorying your account (at least semi-



annually).

The Logistics Division, Office of Logistics and Facilities, has a support mission to all employees within DMS having a problem or question regarding property accountability.



DMS

CHRISTMAS PARTY

15 Dec 1990

7:00 p.m. - 1:00 a.m.

Old Rucker Club (Bldg 184)

For more information

call SGM Sellers,
ext. 664-2383



DEERS enrollment policy changes for newborns

A new policy that impacts the payment of CHAMPUS claims became effective on 1 October 1990. The policy states that an automated Nonavailability Statement (NAS) will be required for inpatient health care provided by a civilian hospital within a medical treatment facility's (MTF) catchment area (generally a 40-mile radius).

The most important impact on beneficiaries is that beginning 1 October 1990, CHAMPUS fiscal intermediaries (FIs) will deny payment on non-emergency claims if an NAS has not been generated on DEERS by the appropriate military facility.

As a word of caution to prospective parents or those with newborn infants--if an infant remains in the hospital continuously after the mother has been discharged, the mother's NAS is valid for the baby in the same hospital for up to 15 days after the mother is discharged. Beyond this limit, an NAS must

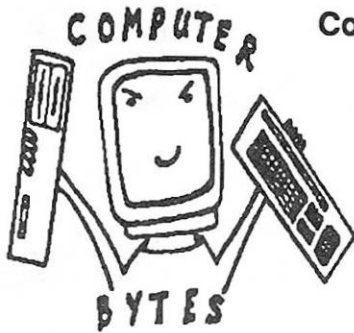
be issued for the infant in order to have the claim paid by CHAMPUS.

In addition, if an active duty service member gives birth in a civilian hospital and there are charges for the care of the infant, a NAS will be required if the baby's stay is more than four days. After that time, infants are considered to be new patients in their own right.

Both of these circumstances require that all infants be enrolled in DEERS. This can be accomplished with a certificate of live birth, which unlike the official birth certificate, is available within a few days. Since this document is accepted as proof of birth, children less than 1 year old are no longer exempt from the requirement to be enrolled in DEERS.

To avoid potential problems in the payment of CHAMPUS claims, parents must enroll their children in DEERS. This is particularly important for members with children less than 1 year old who were exempt under previous policy.

*Courtesy of DEERS Rapids -
News in Brief*



by Jim Davidson

Computer security

or

Why you want
to
know your ISSO

"At a minimum, Defense Mapping Agency data will be treated as Sensitive Unclassified and all automated information systems (AIS) must be accredited." Just what does that mean? How can data be sensitive and unclassified? Why must computers used for processing unclassified data be accredited?

The Computer Security Act of 1987 (Public Law 100-235) was enacted to improve the security and privacy of sensitive information in Federal computer systems. DMA Manual 5200.28, "AIS Security Requirements," clarifies the need for our data to be protected. DMA information is a valuable national resource. It is an essential tool for managing our operations; and is itself often a commodity with economic value in the marketplace.

One way you can safeguard DMS data is to mark all diskettes with appropriate classification labels. For Sensitive Unclassified data, affix both an Unclassified label, SF 710; and data descriptor, SF 711 to each diskette. Describe the contents on the SF 711. Contact your department/staff Information Systems Security Officer (ISSO) for labels. Secure your diskettes as you would any sensitive data. Never store data on internal hard disk drives. Remember that the introduction or use of privately owned AISs or privately owned/ developed software, including games or public domain (shareware) software at DMS is strictly prohibited. Don't bring software or your home computer to work.

In order for you to use the PC in your office, it has to be accredited. All new AIS acquisitions also must receive accreditation before use. The deadline for accrediting current systems is 1 May 1991. See your ISSO to ensure the machine you use is accredited by letter. Otherwise, you may be without a computer in six months! Envision the accreditation letter as your computer's "vehicle inspection sticker." Appendix H of DMAM 5200.28 has the new simplified accreditation form.

The DMS Information Systems Security Officers are:

Director's Office	SGM Carlos Sellers
Plans Office	Ms. Charlotte Bernard
Logistics Division	SSgt Larry Johnson
Operations Division	Capt Henry Schneider
Department of Geographic Sciences	Mr. Wayne Gleason
Department of Graphic Arts	SFC Stuart Lobell
Department of Management & Technology	Capt Michael Reading
Defense Mapping School	Capt Michael Reading



Jean Battles

Fun, exercise & helping others-- all in one package

by LtCol Erwin Williams

How can you have fun, exercise, and help someone else, too? If you're like Jean Battles, clerk typist in the Office of Logistics and Facilities, you'll participate in "The Red Cross Swim-A-Thon". Jean, who is unable to donate blood because of a medical condition, discovered that she could help in another way. She entered the Swim-A-Thon and asked friends to pledge donations to the Red Cross. In August, Charlotte Faehn, the Technical Director's secretary, accompanied Jean to the Fort Belvoir swimming pool to count laps. Jean then proceeded to swim 33 laps — 66 lengths of the pool, earning \$35 in contributions.

Jean has been an active swimmer since early school days. She was a member of the community swim team throughout junior high and high school. She has continued to swim recreationally since her graduation in 1981.

Jean wanted to pass the following information on to her fellow DMS civilian employees: "Until a short bit ago, I had thought that access to the Fort Belvoir pool was strictly for military personnel, but now I know that civilians have access to the pool as well. I had membership at a swimming pool at Fort Hunt Road until I realized this. Another good point is that DMS has great accessibility to the pool, it's walking distance."

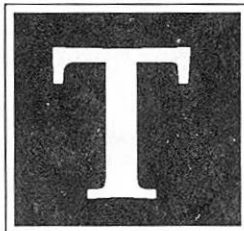


Congratulations to Mr. & Mrs. Dale Cuave on the birth of their third daughter, Lindsay Renee, who weighed in at 8 lbs. 8 oz. on 20 September 1990.

1990 CULT



Cris Becerra prepares to share some "ethnic" cheese curls.



The Defense Mapping School celebrated its Cultural Awareness Day on October 1, 1990. The theme of the day was our Nation's multicultural heritage, and the celebration was a great success.

Thanks to the cooperation and support of DMS employees, there was a plentiful variety of food at the Food Fiesta. Entertainment

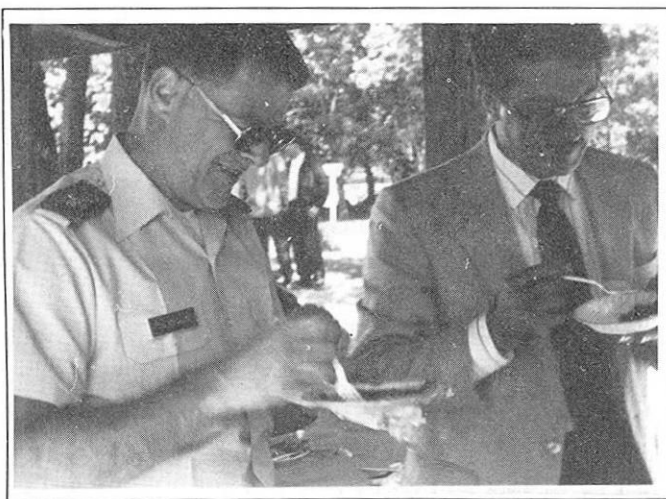
was provided by the Bell Multicultural High School Jazz Band from Washington, D.C. SGM Carlos Sellers played some pieces of his own inspiration on the guitar and sang, accompanied by Nick Mosura on his guitar. The Polynesian Dancers of Mahina and the Kane Leos performed interpretive folk dances from Hawaii, Samoa, and Tahiti.

Our thanks and appreciation to all, and especially to the hardworking members of the Cultural Day Committee.

--by Carlos Angel



Carlos Angel (R), chairman of the Cultural Day Committee, shares the spotlight with International students Captain Abdulaziz Al-Amri (L), from Saudi Arabia, and First Lieutenant Ahmed Nada, from Egypt.



MAJ A.G. Thompson (L) and Dave Miller enjoy judging the chili contest. Nick Mosura took 1st place.

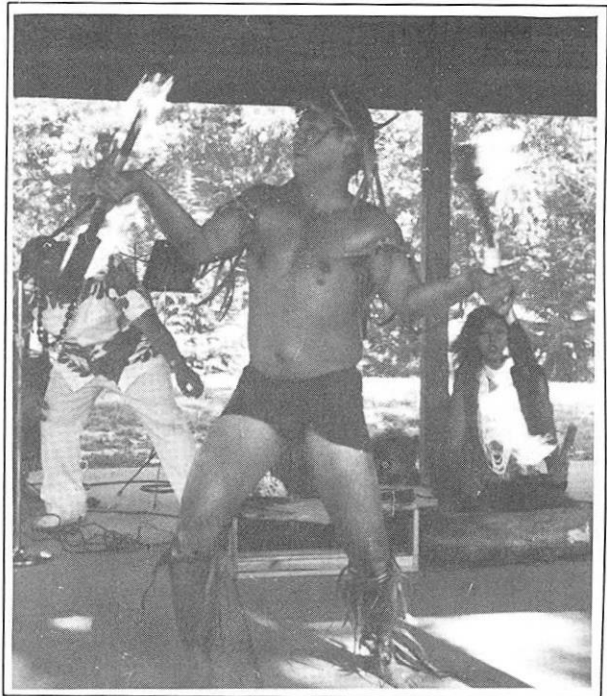


Accompanied by Nick Mosura on the guitar, SGM Carlos Sellers sings a little country western for the crowd.

JRAL DAY



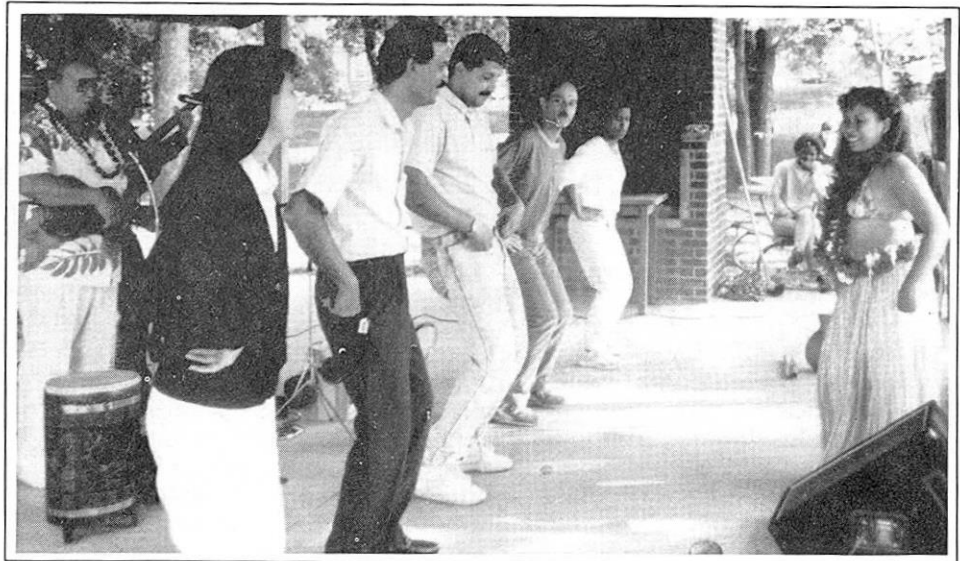
The beautiful music of the Bell Multicultural High School Jazz Band was a special treat for the crowd.



SFC Dwayne A. Ikalka performs a fire dance.



Martha Nelson, from HQ PP, was a guest speaker at the celebration.



DMSers "get down" the Polynesian way. Could that be our Illustrious leader in the middle of the group?

Reserve Components complete MOS qualification

by CW3 Edwin Huth

Members of the 1203d Engineer Battalion (Topographic), Alabama Army National Guard, and the 302d Engineer Company (Topo), U.S. Army Reserve, recently completed MOS qualification training at the Defense Mapping School. Personnel graduated from the Basic Terrain Analysis Course (BTAC) in separate ceremonies this summer.

Ten soldiers from the 302d in Corpus Christi, Texas, their parent 420th Engineer Brigade in Bryan, Texas, and the 4164th U.S. Army Reserve Forces School, San Antonio, Texas graduated in ceremonies at DMS on 27 July 1990. This training was accomplished on drill weekends and two annual training periods during the April 1989 through July 1990 time frame.

Similarly, 23 soldiers from the 1203d out of Dothan, Alabama, completed BTAC on 29 June 1990. Their class had begun in February 1989 and was instructed by Terrain Evaluation Division personnel on the same drill weekend/annual training basis.

The model for this training program was established by the 1203rd with a BTAC class beginning in 1987. Battalion reorganization necessitated MOS qualification training for terrain analysts; and arrangements were made with the Engineer proponents, the National Guard Bureau, the Major Army Command and the Defense Mapping School to accomplish the job. The 445-hour BTAC course was structured to fit two-day drill periods and two-week active training periods in a combination of resident and nonresident modes. The guardsmen have been a monthly BTAC training fixture ever since. The June graduation was the third class for the Dothan unit; and a fourth BTAC class began in August! The combination of classes spaced a month apart and the need to adjust instruction to fit 16-hour blocks present some unique problems to DMS instructors. The School's operations officer is also challenged with a myriad of coordination tasks.

The benefits of the training program have increased unit readiness in the Guard and Reserve. DMS instructor personnel have also benefited, and are enthusiastic participants in the MTT program. At a recent graduation, the Deputy G-2 of the 29th Infantry Division (Light) stated: "The ultimate success of our ability to stand ready...will depend upon the acquired skills and the knowledge and understanding of your new MOS." This program is the first step in acquiring that knowledge.



DMS represented at Army 10-Miler

by MAJ Arthur G. Thompson

A stalwart group of DMSers banded together to take part in the Army 10-Miler race this year (why is not altogether clear) and proceeded to give a good account of themselves by: 1) finishing period and 2) finishing at least in the top half of the 5500+ runners. The weather was clear and pleasant, with the fair-like atmosphere making for either an invigorating Sunday morning or unmitigated misery depending on whose interpretation one chose to believe. The race was followed by a now-traditional DMS Tailgate Party. Copious amounts of beverages, fruits, and food were consumed, with rubbing ointment and deodorant offered to all. When asked if they would enter next year, all replied with various imaginative comments and suggestions as to what could be done with the race. When Mr. Elinan recovered his breath, he wheezed, "That was fun. I think I'll train for it next year." This year's DMS entrants were SSG Fortune, SSG Vigil, SSG Mohn, SFC Belokon, Mr. Elinan, MAJ Jens, and Maj Thompson, all of GS, and SSG Sment, of the ATAC course. Rumor control has it that next year all Department Chiefs, the PAO, and the Deputy are expected to enter the Army 10-Miler.

National American Indian Heritage Month



A joint congressional resolution has designated November as National American Indian Heritage Month. November was chosen because it is traditionally the most festive month of the year in American Indian communities across the nation. Harvest ceremonies, powwows, dances, and feasts will take place on reservations, and in communities nationwide, throughout the month. Take a moment sometime during this period to pause and reflect on the contributions to American history and heritage given by our Native Americans. Better still, take advantage of local recognition events to learn more about this important segment of our society.

Dodge retires as School SGM

Sergeant Major John S. Dodge III is completing his tour as the Defense Mapping School Sergeant Major and as the senior Topographic Engineering Noncommissioned Officer in the United States Army. Dodge is retiring from the Army on 30 November after a long and distinguished career.

SGM Dodge began his military career in 1956 when he joined the Texas National Guard. He was released from the National Guard when he moved from Texas to Gary, Indiana to work in an open hearth for United States Steel Corporation. During and after the "1959 Steel Strike", a rough time followed with various jobs until the military, once again, entered his life.

Thus started 30 years of uninterrupted active duty on 5 January 1961. SGM Dodge was the typical "troopie" in Artillery basic training at Fort Hood, Texas and didn't "see the light" until he attended Wheel and Track Vehicle Mechanics School at Fort Dix, New Jersey. At that point, he learned that by applying himself 110 percent he could make the system work for him. He was promoted to Private First Class ahead of all his classmates.



Three months later, home was Munich, Germany in an Armored Transportation Battalion as a mechanic and later as an Armored Personnel Carrier driver (more fun) until rumor of organization deactivation was rumbling around. Since he had no desire to become an Infantry soldier, and since he had studied drafting in civilian life, it was time to make change No. 3---he became a draftsman at the 24th Infantry Division Headquarters. When Dodge was stationed in Augsburg, Germany, the Army really started looking good so, now a Specialist 4, he "took six and bought a Porsche."

Still a so-so troopie, the major turning point in his military career happened. A Master Sergeant Baker L. Edmunds took him aside and said, "John, if you intend to make the

Army a career and be successful, you MUST....." Dodge did all those things, made a career of the Army, and it has been successful.

One of the things he was told was to "do the best you can do in all that you do." Things such as "Distinguished Leadership Graduate" at the Seventh Army NCO Academy, No. 1 on the Sergeant First Class promotion board, (yes, in those days you actually went in front of the board like E4s and E5s do today) and numerous awards and letters for accomplishments.

Another thing was to "accept any challenge and change job specialties as many times as necessary to get ahead." So over the past 30 years, the SGM has been a Construction Draftsman, an Illustrator, a Senior Illustrator, a Clerk Typist, a Train Conductor, a Door Gunner, a Diver, a Reenlistment NCO, an Operations Officer, a First Sergeant, a Platoon Sergeant, a Squad Leader, a Section Chief, a Branch Chief, a Training NCO, a Cartographic Control NCO, a Prescribed Load List Clerk, a Motor Sergeant, a Heavy Equipment Operator, a Jeep Driver, a Personnel Specialist, a Company Clerk, a Cartographic Draftsman, a Career Counselor, an Auto Maintenance Foreman, a General Staff Engineer Sergeant Major, an Action Officer, an Instructor, a Senior Instructor, a Master Instructor, Chief Instructor, and finally, School Sergeant Major. Needless to say, these different assignments are not in exact order and some of the assignments occurred more than once.

Education was, of course, one of the key requirements mentioned by MSG Edmunds to that Specialist 4 Dodge, and since that day, high school was completed, hundreds of different courses on military and non-military topics plus an associate's degree in Conservation were also accomplished.

Has it all been success? No, it has not! In 1964, Specialist 5 Dodge was released from Airborne School with an injured leg; in 1966, after being accepted for Flight School, Specialist 6 Dodge's eyesight was determined as unacceptable to become a pilot; and in 1967, after 10 weeks of Officers Candidate School, Staff Sergeant Dodge was medically released due to complications on his previously injured leg.

But Munich, Augsburg, Heidelberg (twice), Frankfurt and Kaiserslautern, Germany; Seoul, Korea; Vietnam and Tokyo, Japan; Ft.



SGM John A. Dodge III

Hood, Texas; Ft. Dix, New Jersey; Ft. Lewis, Washington; Ft. Bragg, North Carolina (twice); Ft. Benning, Georgia; Ft. Riley, Kansas; Ft. Lee, Virginia; Ft. Benjamin Harrison, Indiana; The Pentagon; and Ft. Belvoir, Virginia (three times), all added to the career exposure that SGM Dodge enjoyed

Another important factor was to "settle down and stop playing around" and Christine, born and raised in Salzberg, Austria and the daughter of an Army SFC, entered the playing field. No more staying out all night playing rock and roll guitar, bass and piano in the local establishments and spending every penny on "the good life." Now 27 years later, John, Christine and their son, John (the IV), a dog and a cat are doing fine in Hollywood, Maryland.

What does the future hold for the Dodges? For Mr. Dodge, a decision to be a self-employed life insurance general agent has been made. All required tests have been taken, certifications have been issued and software programs have been entered into the hard drive of the laptop and tabletop computers. Chris continues to drive a school bus and son John manages an auto salvage business as a recycler. Hobbies of street rodding and car building hopefully will continue as well.

SGM Dodge was asked, "Has it all been worth it?"; answer, "Yes!" Any thing you would do differently? "Of course, as long as I ended up at this point in life with the same success and the same memories."

Director's Call

NEW ARRIVALS

Military

CWO3 David W. Hooper (USMC)
SSgt Jerry A. Owens (USMC)
SSgt Daniel K. Jones (USMC)

Civilian

Minerva Del Rosario
Arturo Camacho
William Nall

DEPARTURES

Military

CW2 Ross L. Price (USA)

Civilian

Nathaniel Floyd

AWARDS

Joint Service Commendation Medal
CW2 Ross L. Price (USA)

Freedoms Foundation Award
SSG Dale L. Crossett (USA)

LETTER OF CONGRATULATIONS

CPT William P. Smith (USA)
SFC Paul Swartz (USA)

CERTIFICATE OF PARTICIPATION

Military

CPT Scott A. Wilson (USA)
SFC Dollen J.- Garrison (USA)

Civilian

Lynn Keleher

QUALITY SALARY INCREASE CERTIFICATE

Bobby B. Rawlings

SENIOR INSTRUCTOR CERTIFICATE

LI1 Joseph Leach (USN)

Sponsors needed for International Students

Sponsors are needed for international students training at Fort Belvoir. As part of the International Student Host Family/Sponsor Program, a sponsor opens his/her home to an international student. The purpose of the program is to give a lasting good impression of American culture to an international student. It is also to provide the student with a home environment while separated from his/her home and family.

The student arrives with preconceived ideas and impressions of Americans and their culture, formed from multiple sources: television, radio, magazines, movies, and businesses. Each has provided a profound influence on foreign cultures and a strong image of Americans. The Sponsorship Program is to help reinforce positive images and either lessen or dispel negative images through a positive experience with an American family. The sponsor's family also benefits by learning of other countries' cultures, beliefs, religions, and ways-of-life. Very often, these international students will have a large impact on the nature or tone of their country's future relations with the United States. This impact can be strongly influenced by a positive experience and exposure to the American family.

To be a sponsor, all that is needed is an open home and heart. The level of involvement is up to the individual sponsor and student. The intent is to make the student a part of your family. Invite him/her to your child's school plays and ball games; to spend a Sunday afternoon watching a football game; to a family cookout on Saturday afternoon; or to the zoo or a museum. The International Military Student Office (IMSO) will do its best to match your family's interests and background with that of an international student.

DMS has been provided a unique opportunity through its operation of the IMSO. Now is the time for you to volunteer. Please contact MGySgt Mason or Ms. Stitt at IMSO for more information, (703) 664-3633, or visit the office in the basement of building 211. This is a great opportunity to enrich the lives of your family and an international student far from home.



Mr. Charles P. Gray, Cheney Elementary principal (L), and Colonel Gerald P. Williams, Fort Belvoir deputy commander (R), look on as DMS Director Colonel Samuel R. Schwartz signs the Memorandum of Understanding whereby DMS "adopts" Cheney Elementary. The signing ceremony kicked off the post Adopt-A-School Program for school year 1990-91.

DEFENSE MAPPING SCHOOL

FORT BELVOIR

VIRGINIA 22060

OFFICIAL BUSINESS

CONTOUR EDITOR

Public Affairs Office

Defense Mapping School

Fort Belvoir, VA 22060-5828

16 November 1990

Dear **CONTOUR** Reader:

Department of Defense Instruction 5120.4 requires that we conduct an annual review and update of the **CONTOUR** mailing list. If you wish to continue receiving the **CONTOUR**, please complete the form below and return it to the Defense Mapping School. Simply fold, staple, affix stamp and mail to the address shown on the reverse side of this page. If we do not hear from you by 16 December 1990, your name will be removed from our mailing list.

We appreciate your interest in the **CONTOUR** and hope that you will renew your readership with us.

Sincerely,

JOYCE J. BECK
Public Affairs Officer

Continue sending () Yes () No No. copies desired _____

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Defense Mapping School

CONTOUR

Volume 18, Number 3

December 1990



*...towards the night
before Christmas*

The Direct Line

Maj Gen William K. James (USAF)
Director, Defense Mapping Agency



A Great Year

Fiscal year 1990 was one of our best in terms of meeting our goals. In DMA, this is not unusual, but this year was especially noteworthy. Not only did we exceed last year's total program effort but we did it despite some significant unplanned events.

For example, operations JUST CAUSE in Panama and DESERT SHIELD in the Middle East. Neither was anticipated in our production programming, but we have demonstrably increased our production output. Counter-narcotics is another example of a program which gained in scope of work and national emphasis.

We adjusted manpower and production pro-

gramming to meet these special requirements while at the same time continuing to provide high priority products and services to other customers. I would add, in the case of Operation DESERT SHIELD, we continue to adjust and readjust to meet the needs of deployed forces.

Fiscal year 1990 saw our map and charting programs—aeronautical, hydrographic and topographic—exceed the previous year by 20 percent. Over 3000 products were produced and over 70 million copies printed. The digital program exceeded last year's by 60 percent with more than 7000 products delivered. Points, which make up the third segment of the major production program break-out, increased by 25 percent. That is great

work by any measure of merit.

Every employee can take pride in our accomplishments but as we reflect on our success, let's endeavor to make fiscal year 1991 even better. The nation's combat forces are depending on us.

HOLIDAY GREETINGS



As we enter into the holiday season, DMA employees can reflect with pride upon a job well done during the past year. In particular, the Agency's efforts in support of Operation Desert Shield have been examples of total dedication and professionalism.

When we gather for the holidays with our families and friends, let us not forget those American men and women in uniform who stand the lonely vigil in far away places so that we might enjoy the blessings of liberty.

Jo and I extend our warmest wishes to all for Happy Holidays and a prosperous New Year.

Major General William K. James



Marines celebrate 215th!

The Marines of Fort Belvoir celebrated their 215th Birthday on Friday, 9 November 1990, in the DMS auditorium. The cake-cutting ceremony is inherent to the Marine birthday celebration. The Senior Marine on Fort Belvoir, LtCol Kurt M. Dieterle, and the Honored Guest, Colonel Samuel R. Schwartz, DMS Director, (left and right in background, respectively) cut the cake. Here, PFC David J. Chesseeon (l) presents cake to the Oldest Marine present, MGySgt Paul C. Mason. The second piece went to the Youngest Marine present, PFC Johnny J. Pinkney (far right). The cake Honor Guard and narrators were all students of DMS.

The Director's Corner



COL Samuel R. Schwartz

"Then said Judas, Behold, our enemies are discomfited: let us go up to cleanse and dedicate the sanctuary... They took whole stones according to the law and built a new altar according to the former; And made up the sanctuary, and the things that



were within the temple, and hallowed the courts. They made also new holy vessels, and into the temple they brought the candlestick, and the altar of offerings, and of incense, and the table.

Then all the people fell upon their faces, worshipping and praising the God of heaven who had given them good success. And so they kept the dedication of the altar eight days, with offerings of gladness and sacrifices of deliverance and praise. And it was ordained that these days of dedication...be kept in their season from year to year."

I MACCABEES 4: 36-61



" And there were in the same country shepherds abiding in the field, keeping watch over their flock by night.

And, lo, the angel of the Lord came upon them, and the glory of the Lord shown round them: and they were sore afraid.

And the angel said unto them, Fear not: for, behold, I bring you good tidings of great joy, which shall be to all people. For unto you is born this day in the city of David a Saviour, which is Christ the Lord. And this shall be a sign unto you; Ye shall find the babe wrapped in swaddling clothes, lying

in a manger. And suddenly there was with the angel a multitude of the heavenly host praising God, and saying, Glory to God in the highest, and on earth peace, good will toward men."



LUKE 2: 8-14

However you choose to keep this holiday season, the Schwartz family extends our warmest wishes to you for peace, happiness and success in the upcoming year.

Holiday

Traditions



his time of year means a host of different things to different people. For some, it's the time of year to give thanks for their many blessings, the exchanging of presents with family and friends, and the giving of themselves to their fellow man. Almost all of us, in one form or another, have holiday traditions, whether it's Christmas with family and friends, or renewing old acquaintances at New Year's. All our traditions come together to make those special holiday memories.

Now let's meet some fellow DMSers and share with them some of their traditions.

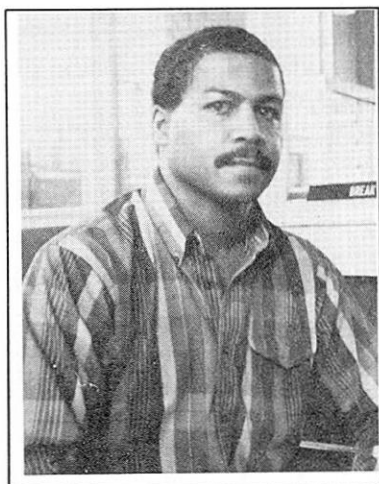


Beverly Stitt's holidays will be spent with her three daughters and her grandchildren. "All of us will meet at my oldest daughter's house on Christmas Day to exchange gifts, open packages, and eat our Christmas Dinner. Being able to spend the holidays with my family is what will make this a special holiday memory for me."

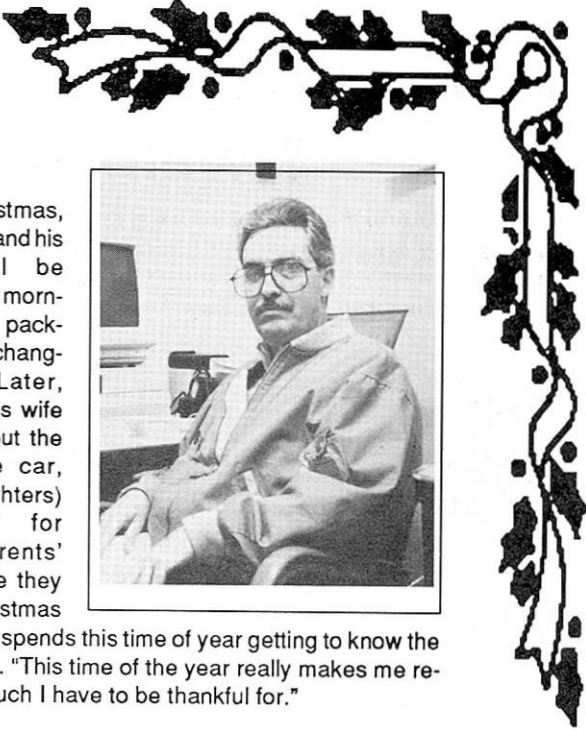


CW3 Edwin Huth, his wife, Cheryl, and three daughters will be spending the Christmas season at home this year. "With three girls in the house, we'll be taking many trips to the area's numerous shopping Malls." He is also looking forward to the annual DMS Christmas party where he can celebrate the season with other fellow DMSers. Christmas Day will find the Huths opening packages, attending Christmas services at their church, and relaxing and enjoying dinner at home.

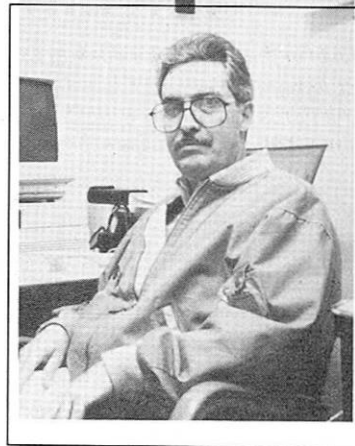
This year, TSgt Peggy Cantey, husband, Richard, and daughter, Michelle will spend Christmas at their home here in the area. "We always spend Christmas at home, just the three of us. On Christmas Eve, we make all the phone calls to the relatives and friends and wish them a Merry Christmas. This will be our first Christmas in this area so we're going to see what D.C has to offer at this time of year."



Jeffery Hamn, his wife, Sherry, and their young son, Jeffery Jr., are going to share their Christmas with Jeff's parents, as well as with Sherry's. At Jeff's house, it will be like a family reunion with all the other siblings joining them there. After dinner and exchanging presents, it's on the road to Sherry's parents' home where much the same thing will take place. More presents exchanged, more food consumed. Then it's back home to end the day, enjoying the company of one another.



This Christmas, Dale Cuave and his family will be spending the morning opening packages and exchanging gifts. Later, Dale, and his wife Tracy, will put the kids in the car, (three daughters) and head for Tracy's parents' house where they will eat Christmas dinner. Dale spends this time of year getting to know the family better. "This time of the year really makes me realize how much I have to be thankful for."



This year, GySgt George Wrightsman will load up the truck and the family will head for the mountains. The Gunny, his wife, Coleen, and their daughter, Sheena, will spend Christmas at Deep Creek Lake in western Maryland. "We go there every year to relax and go snowmobiling. It gives us a great chance to enjoy the outdoors and to get to know each other a little bit better." On Christmas Eve, the Wrightsmans will each open one package, which is traditional in their family. The rest will have to wait 'til morning!



Lt Col Erwin Williams and his wife, Mija, daughter, Sylvia, and son, Scott, will be on their way to Omaha for the holidays to visit with his parents. "Every other year we take turns going from my parents to my in-laws." While there, they will visit with family and friends and enjoy themselves in the holiday traditions. "Hopefully we'll be able to see some of the family that we haven't been able to see in quite a while."

LIC Robert Sowards and his family are going to stay home and spend Christmas together. "It will just be myself, my wife, and my four daughters. We'll open presents, eat our traditional Christmas dinner, and just be thankful that we were able to be together."



Story & photos
by
SSgt D. K. Jones

Terrain Analysts Keep In Touch

Analysts in the Terrain Evaluation Division were recently on the receiving end of mail from the terrain detachment supporting the 101st Airborne Division. The 5 1/2 by 13 inch "post card" was actually the side of an MRE box complete with "FREE" postage and an "Air Force Postal Unit 4" postmark of 26 September 1990. The greeting, shown below, was signed on the back by six members of the 529th Engineer Detachment (Terrain).



DEAR SIR!

IN ORDER TO HELP RELIEVE THE MONUMENTOUS WORKLOAD OF THE DEFENSE MAPPING SCHOOL, THE MEMBERS OF 529TH ENGINEER DETACHMENT (TERRAIN), 101ST AIRBORNE DIVISION (AIR ASSAULT) GRACIOUSLY VOLUNTEER TO HOST THE 1991 TERRAIN ANALYSIS SEMINAR. OUR PROPOSED MEETING PLACE AT N29°23' E 247°59' HAS AMPLE CONVENTION SPACE, SUNNY WEATHER, AND MILES UPON MILES OF PRISTINE BEACHES AND SAND DUNES. MEALS WILL BE PROVIDED WITH A WIDE VARIETY OF CULINARY DELIGHTS AVAILABLE IN FLAVOR SCALED PACKAGES PACKED 12 COMPLETE ENTRES TO A BOX. ALCOHOLIC BEVERAGES WILL NOT BE PERMITTED BUT WE WILL BE HAPPY TO PROVIDE AN AMPLE QUANTITY OF WARM WATER. GENTLEMEN YOU HAVE 30 DAYS TO CONSIDER OUR OFFER OR EVENTS MAY REQUIRE US TO RETRACT OUR OFFER. GOD BLESS THE USA

CW2 GILBERT H. RIOS
OPERATION DESERT SHIELD
HHC, 101ST AIRBORNE DIVISION
G2 (529TH ENGR)
APO NEW YORK 07309



CW3 ED HUTH
C/O DEFENSE MAPPING SCHOOL
TERRAIN ANALYSIS DIVISION
FT. BELVOIR, VA 22060

8970-00-149-1094
MEAL, READY-TO-EAT, IND.
12 MEALS A/A
WT 20.5 CU 0.89
DLA13H-89-C-0792
SO-PAK-CO, INC.
MULLINS, S.C. 29574

Do you want sand, Chief?

Altonia



Bill Ostr

C. Rios

Gilbert H. Rios
"AIRBORNE"

Francis Chyhan



Defense Mapping School microcomputer users have a new source for office automation equipment and software. The Defense Mapping Agency Office Automation Workstation (OAW) Contract, actually two contracts — one for MS-DOS hardware and software and one for Apple

Macintosh hardware and software, was awarded 28 September 1990. Please note that the MS-DOS contract is not yet available for Agency use. Stay tuned for further developments.

The following describes items listed on the OAW contract. Obtain nomenclatures, stock numbers, and pricing information from LOS.

The 80386/25 or 80386/33 units include a clock/calendar, power supply, interactive device ports, graphics card, SCSI host adapter, direct access storage port, serial port, expansion slots, LAN comm support, keyboard, mouse, 1.44MB floppy drive, diagnosis software, and technical reference manuals.

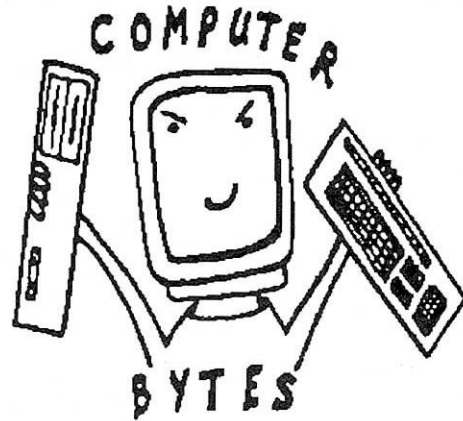
MS-DOS HARDWARE:

- 80386/25 Microprocessor
- 80386/33 Microprocessor
- 4MB Main Memory/25
- 4MB Main Memory/33
- 4MB Memory Upgrade/25
- 4MB Memory Upgrade/33
- Math Coprocessor 80387/25
- Math Coprocessor 80387/33
- VGA Mono Monitor
- Mono Page Monitor
- VGA Color Monitor
- 357 MB External Drive/SCSI
- 1.2MB Floppy Drive
- Bernoulli Dual 44MB/Tri-Pac
- 60MB Internal Tape Drive
- Dot Matrix Printer
- Sheet Feeder for Dot Matrix
- Post Script Laser Printer
- Laser Printer Sheet Feeder
- Flatbed Scanner/Software
- Power Director
- Surge Suppressor-6 Outlet

The 68030/15 (Mac IIcx) or 68030/25 (Mac IIci) units include a 68882 coprocessor, clock/calendar, power supply, interactive device ports, page monitor card, SCSI port, direct access storage

MS-DOS SOFTWARE

- MS-DOS
- OS/2 w/Presentation Manager
- UNIX-Open Desktop
- Windows
- Microsoft Word
- WordPerfect
- Microsoft Excel
- Lotus 1-2-3
- dBase IV
- Reflex
- Micrografx
- Harvard Graphics
- Watchdog PC Data Security
- Cortana PC Security
- Microsoft Works
- Mace Gold
- Software Bridge



by Jim Davidson

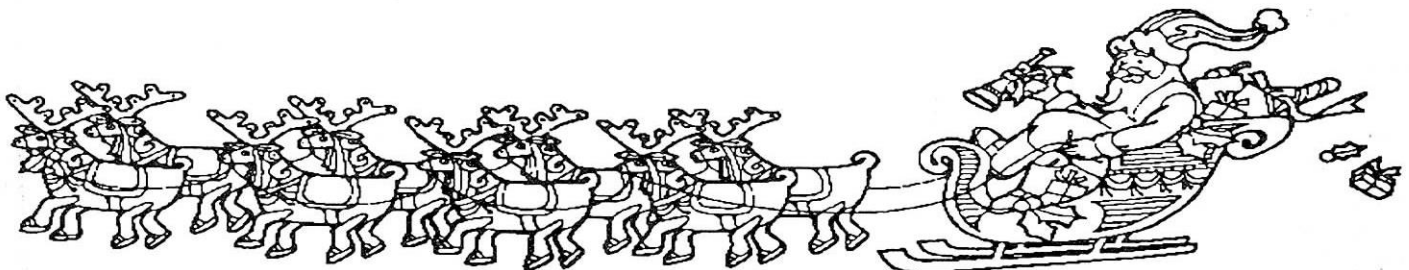
port, serial port, expansion ports, communications support, mouse, FDHD-removable media drive, Macintosh operation system, graphic user interface; systems diagnostics, OS conversion, file maintenance, word processing document conversion and spreadsheet conversion software, and technical reference manuals.

MACINTOSH HARDWARE:

- 68030/15 Micro (Mac IIcx)
- 68030/25 Micro (Mac IIci)
- 4MB Main Memory/15
- 4MB Main Memory/25
- 4MB Memory Upgrade/15
- 4MB Memory Upgrade/25
- 8-bit Video Card
- Extended Keyboard
- Mono Monitor
- Mono Page Monitor
- Color Monitor
- 330E-Ext. Hard Drive
- Apple PC 5.25" Drive/Card
- Bernoulli Dual 44MB-Mac
- MacStack 60 w/3 tapes
- Dot Matrix Printer
- Dual Bin Sheet Feeder
- LaserWriter II NT
- Laser Printer Sheet Feeder
- Flatbed Scanner/Software
- Surge Suppressor
- Power Director

MACINTOSH SOFTWARE

- UNIX-A/UX on Tape
- Microsoft Word
- Wordperfect for Macintosh
- Microsoft Excel
- Informix WingZ
- FoxBase Plus
- Clarix Filemaker II
- Clarix MacDraw II
- Microsoft PowerPoint
- Kent Marsh The NightWatch
- SuperMac Software Sentinel
- Microsoft Works
- Symantec Sum II
- A/UX Manual Set



Focus on Micro

The planning and conducting of modern military operations rely heavily on maps, charts and other MC&G (Mapping, Charting, and Geodetic) data produced by the Defense Mapping Agency. How accurate are MC&G products? What is their intended use? Are all coordinates determined in the same manner? How reliable are estimates generated from digital MC&G products? Can you rely on GPS derived coordinates? How can you get MC&G products during a crisis?

These are common questions raised daily by the war fighters. DMA's component for education and training, the Defense Mapping School (DMS), has developed a course which answers these questions. Called "MICO" for short, the MC&G Impact on Combat Operations course has been designed for personnel in all Services and Commands at all levels of operations. While directly applicable to operations officers, mission planners, targeters and intelligence personnel from all services, it contains information vital to anyone who depends on maps, charts, aerial photographs, remotely sensed imagery, digital data bases, or geodetic data for combat operations. MICO will help insure that you are aware of advantages and disadvantages of these products and their impact on combat operations. A two-day resident course is offered and Mobile Training Teams (MTT) have presented tailored courses around the world.

Information about course content may be obtained by contacting the DMS Operations Officer, Capt. Henry Schneider, AUTOVON: 354-2383, Commercial (703) 664-2383.

Hit your Target!...MC&G data can have an impact and the MICO course can help you understand why!

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Director's Call

NEW ARRIVALS

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DEPARTURES

Military

LIC Don L. Carlson (USN)
CW3 Ralph L. Henry (USA)
SGM John S. Dodge (USA)
SMSgt Raymond B. Poole (USAF)

Civilian

Deborah Vaughn

AWARDS

Military

Defense Meritorious Service Medal
CW3 Ralph L. Henry (USA)
SGM John S. Dodge (USA)
SMSgt Raymond B. Poole (USAF)

Navy Commendation Medal
GySgt James D. Roppel (USMC)

Civilian

Special Acts Award
Carlos A. Angel

MASTER INSTRUCTOR CERTIFICATE

LIC Robert E. Sowards (USN)
CW3 Edwin Huth (USA)
CW3 Michael F. Weir (USA)

SENIOR INSTRUCTOR CERTIFICATE

SSG Lawrence M. Brombach (USA)
LI1 John H. McWilliams Jr. (USN)
SFC Preston Bayne (USA)

CERTIFICATE OF EXCELLENCE

SSG Lawrence M. Brombach (USA)

CERTIFICATE OF PARTICIPATION

CPT Scott A. Wilson (USA)

QUALITY SALARY INCREASE CERTIFICATE

Bobby B. Rawlings

LETTER OF CONGRATULATIONS

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