

# Orientor

DEFENSE MAPPING AGENCY AEROSPACE CENTER



Filmstrips produced by the Aerospace Center for the HH-53 above were used to rescue a woman in Alabama whose arm had been sev-

ered. Especially useful in night operations, the filmstrips provide a moving map display that automatically follows the path of the aircraft.

## Helicopter Rescuers Rely On DMAAC Filmstrips

Filmstrips produced at the Aerospace Center for the HH-53 proved their value during a recent rescue effort by a helicopter crew from the Air Force 20th Special Operations Squadron at Hurlburt Field, Fla.

As reported in the June *Airman*, a woman whose arm was severed by an airplane propeller, was rushed to a hospital in a MH-53 *Pave Low*.

(A spokesman for the 20th Special Operations Squadron told the *Orientor* that the MH-53 is "basically the same aircraft" as the HH-53, which was originally procured for rescue operations. The aircraft was later redesignated the MH-53 to reflect the special operations mission of the squadron, who are

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Application process begins for 1989-90 Long-Term, Full-Time Training—page 4.

Security clearance evaluation is an ongoing process—page 6.





Dr. Gordon A. Smith, Assistant Secretary of Defense for Command, Control Communications and Intelligence, is briefed on the Feature Extraction Segment of the modernization program by Kim Sener of HTC's Digital Products Department.

## ASD (C3I) Visits DMA

The Assistant Secretary of Defense for Command, Control, Communications and Intelligence visited the Defense Mapping Agency on July 8.

Dr. Gordon A. Smith, ASD (C3I), was the guest of Maj. Gen. Robert F. Durkin, DMA Director, for a tour of the production facilities at the Hydrographic/Topographic Center. DMA is under the direction and control of the ASD (C3I).

During his four-hour, 30-minute tour, the assistant secretary received briefings on various segments of the

Mark 85 and Mark 90 systems, including the Digital Comparator Segment, Source Acquisition Segment, and Feature Extraction Segment. Escorts were Penman "Red" Gilliam, DMA Deputy Director for Management and Technology, and Lon M. Smith, HTC Technical Director.

Dr. Smith was Deputy Director of the Strategic Defense Initiative Organization in the Office of the Secretary of Defense before his appointment as ASD (C3I) on May 24.

## Training Emphasized at First DMA IG Conference

Aerospace Center Deputy Director Col. Stephen F. Burrell briefed fellow Inspector Generals from throughout DMA at the opening session of the first annual Agency-wide Inspector General Conference. The purpose of the conference was to promote the IG program, establish an informal IG network within DMA, discuss problems and concerns, develop potential solutions, and train IGs and a cadre of augmentee inspectors.

Inspection training by personnel of the Air Force Inspection and Safety Center, Norton AFB, Calif., was conducted on three of the five days the conference was held.

On the fifth day, the DMA IGs participated in workshops chaired by Col. Charles M. Rose, Reston Center IG, and Lt. Col. William E. Whitworth, Hydrographic/Topographic Center IG. Participants identified common problems and recommended

## New Staff

The new Comptroller, **Vincent A. Lauter**, arrived from Army War College in Carlisle Barracks, Pa., where he has been a student. He was deputy director for resource management and logistics at Headquarters, U.S. Army Recruiting Command, Fort Sheridan, Ill., from 1983-87.



Lauter earned his M.B.A. from Northwestern University. He began his career as a management analyst at Hq., Seventh Army, Presidio of San Francisco, and he worked six years for the Army in Germany.

The new Director of Facilities Engineering, **Major Douglas L. Repaal**, was assistant deputy chief of staff for engineering and services at Hq. Fifth Air Force, Yokota Air Base, Japan, before



coming here. He has been selected for promotion to lieutenant colonel.

Major Repaal studied mechanical engineering at Michigan Tech and earned his M.B.A. from the University of Northern Colorado. He has served with civil engineering squadrons in Germany and Texas. His wife Lorena is an Air Force lieutenant colonel.

solutions. The DMA IG will use information from the workshops to make the inspection program within DMA more effective.

"The training sessions helped us gain a better understanding of our mission and the methods we use to identify problem areas," said Col. Ernest F. Boyer, DMA IG. "A good inspection program will, in the long run, benefit DMA, DoD, and the U.S. Government."



Rear Admiral J. M. O'Connor

## DMA Deputy Director Visits

"Your briefings were thorough, and I appreciated that," said DMA's new Deputy Director, Rear Admiral J. M. O'Connor, after his visit July 19. AC employees said they appreciated the Admiral's eagerness to discuss their projects and his cordial manner.

The purpose of Admiral O'Connor's visit was to give him an appreciation for "Aerospace Center facilities and what we do here, including some of our unique programs," said William Wall, Assistant Deputy Director for Plans and Requirements.

Following a welcome and overview of the DMAAC organization by AC's Director, Col. Robert J. Lemon, the Admiral received briefings on data exploitation by Glenn Beshears, point positioning programs by Stephanie Moses, the filmstrip program by Navy Lieutenant Commander Larry Lusk, and cruise missile support by Ray Hendrix.

His tour at 2300 S. 2nd Street included photogrammetric facilities and sites of the digital comparator and feature extraction segments of the modernization program. At 8900 S. Broadway, he talked with aeronautical information specialists, who produce Flight Information Publications, and shared his experience as a flier with their product. He also toured the DoD Gravity Library and the Graphic Arts Department.

# DMAAC Health/Fitness Program Cited by OPM

The Aerospace Center was one of 12 federal organizations recognized by the Office of Personnel Management for outstanding work in health-promotion programming.

Accepting the Director's Award for Outstanding Health and Fitness Programs from OPM Director Constance Horner were Sid Cooper, chief of the Employee Assistance Office, and Curt Dierdorff, DMA Director of Personnel. The ceremony took place in the Old Executive Office Building in Washington June 24. The award recognizes work done by staff of the Employee Assistance Office (POE) and the Medical Care (SED) and Safety (SES) Divisions of the Health and Safety Office.

AC's "Employee Health and Fitness Program," which has evolved toward its current shape for the better part of a decade, aims to promote employee health through education, risk assessment, counseling, and behavior change opportunities.

Free screening programs for potential health problems attracted a large number of employees during the past year. Cholesterol screening, a new program, drew more than 1100, followed by hypertension screening and monitoring (700) and screening for diabetes (196) and cancer (116). More than 500 employees received training in cardiopulmonary resuscitation and First Aid, 485 employees took advantage of the Center's counseling service, and 423 received free flu immunizations.

Two successful new programs were AIDS education and smoking-cessation classes. The AIDS briefings drew more than 1500 employees. As with the CPR/First Aid training, special sessions were held for hearing-impaired employees. Of 100 employees who took part in the smoking-cessation program, 42 reduced the number of cigarettes smoked per day to 10 or less, including 15 who stopped smoking altogether.

A Health and Lifestyle Survey was undertaken to identify the health-

risk factors most common to the employee population, their level of interest in health programming, the kinds of programs they perceived as valuable, and the best form and delivery system for such programs. The survey also sought to identify a corps of employee volunteers who would be willing to conduct support groups following training or serve on an environmental advisory committee, if formed.

The survey contained 101 items. Of 3,720 surveys distributed, 2,403 were returned (a 65 percent rate of return), and all goals of the survey were accomplished. Future health-promotion programming will be guided by the survey results.

The Director's Awards for Health and Fitness Programs are designed to recognize federal organizations that have successfully established or significantly improved their employee health and fitness programs and to encourage other organizations to strive for high quality programs. As stated in a brochure describing the awards, those organizations receiving the award "deserve special recognition for the contribution they make to improved employee productivity and well-being." A total of 73 federal organizations submitted nominations for this year's awards.

## Director's Hotline

The Director's Hotline is available for employees who have questions or suggestions for improvements in all areas. Some suggestions/questions that are received will be printed in the *Orienter*, along with an answer. Call 3-4178 anytime, 24 hours a day. An answering machine will take your call.

## AC Employees Raise DMA Participation In Savings Bond Program

Participation in the U.S. Savings Bond program increased to 54 percent of Aerospace Center employees based in St. Louis at the end of this year's campaign. In Kansas City, 46 percent of the employees took part in the program through payroll savings.

"The 1988 campaign was one of our most successful ever and resulted in what we believe to be a record Agency-wide participation rate of just under 50 percent," stated Maj. Gen. Robert F. Durkin, DMA Director. "To put the DMA participation rate in perspective, the average for all federal agencies is approximately 32 percent. These results are heartening not only because they represent a job well done but also because of the benefits that will accrue both to the nation and to participating employees. Please pass on my personal thanks to the campaign coordinators, canvassers, and all others who contributed to the success of this effort."

The Combat Support Center had the highest participation rate—75 percent. HTC's rate was 44 percent, and IAGS attained a rate of 46 percent.

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## DMA Announcement Begins Application Process for LTFTT

With announcement throughout DMA this month of Long-Term, Full-Time Training (LTFTT) for 1989-90, the application process will begin. It's not too early for employees to request transcripts from their universities or to inform supervisors of their interest in the program.

LTFTT is a continuous full-time training program of more than 120 days. DMA and its predecessor organizations have supported this program since 1958 because it enables defense mappers to exploit technological advances in order to produce high quality products for the national defense.

The success of LTFTT can, in part, be measured by the number of people who participated in this program early in their careers and who now occupy key positions throughout the Agency. These individuals have used their expertise to manage and participate in the development, implementation and maintenance of DMA's complex hardware and software systems.

This year, the LTFTT program and processes will be centralized. Required programs will be identified at the Agency level and applicants from all components will be able to apply for a specific program or programs.

Prerequisites will be reviewed and applications will be screened at the individual component level and recommendations will be forwarded to an intercomponent panel for review and ranking priority prior to final selection by the director of DMA.

Based on the number of applicants, individual component requirements and career-development considerations, the component to which an individual returns following LTFTT will be determined at the time of selection. This may, in some cases involve geographic relocation.

For academic year 1989-90, LTFTT programs will include the mapping sciences (interdisciplinary), computer sciences (including telecommunications), information sciences, systems engineering, and miscellaneous programs such as orbital mechanics, operations research, image science, logistics, engineering, and human resources management.

A new application form, DMA 1430.14A, will be used by all DMA components this year. Specific instructions for the application process will be contained within the announcement. At DMAAC, any questions should be addressed to the Training and Development Division (POD) at 4976.

## Cartographers See Filmstrips in Operation

About 25 cartographers from the Mapping and Charting Department's Special Products Branch (MCCC), along with staff personnel and several laboratory photographers saw the filmstrips they produce in operation during a field trip to McDonnell Aircraft Co. in St. Louis.

The filmstrips are used to project moving map displays inside military aircraft, including the FA-18, whose cockpit the employees viewed. "I'd heard about how the filmstrips are used," said cartographer George Bell, "but I was kind of awed at the precision. The map moved from one spot to another within seconds."

Cartographers in MCCC design and

manually compile the mosaic for each 35mm. filmstrip, using standard aeronautical charts, while photographers in the Precision Photographic Division (SDR) shoot the actual filmstrip. Besides viewing the FA-18 cockpit, the employees talked to a pilot who uses the filmstrips and saw the FA-18, AV-8B, and F-15E in various stages of production.

"Trips like this give a better appreciation of how our products are being used and how important they are," said MCCC chief Craig Brandenburg, who suggested the trip after taking part in similar tours as a student at the Armed Forces Staff College in Norfolk, Va.

## DMA Historian Visits

"Everyone is fascinated by history, not just a professional historian like myself, but all of us. It's interesting to study the people, the places and the events. And even though DMA's history is relatively brief, it is no less fascinating," commented DMA Historian Shelley L. Davis during a recent visit to the Aerospace Center.

Davis was here to lay the groundwork for establishing the historian function at the Center. Her escort was Ellis Ray/DA, who was recently appointed AC historian to oversee AC's program and serve as a point of contact.

Davis, who has a master's degree in military history, was named DMA's historian last year. She was historian for the 12th Air Force, Bergstrom AFB, Tex., for three years prior to joining DMA.

According to Davis, DMA's historian program has two major thrusts. First will be the preparation of an annual report to document DMA's current activities. The second will be the creation of a long-term official DMA history, dating to the Agency's beginnings in 1972.

Ray is asking people who have documents or photographs that they believe might be of historical significance to call him at 4627.



Shelley Davis examines historic Building 18 with Ellis Ray, the Center's new historian.

## Helicopter Rescuers Rely on AC Filmstrips

Continued from page 1.

the exclusive users of this aircraft. "M" is code for special operations.)

The MH-53 crew had heard about the woman needing "immediate transportation to a hospital" while listening to radio traffic during a routine night flight, *Airman* reported. The MH-53 commander, Lieutenant Colonel Gary Weikel "decided to divert," since he had a flight surgeon on board and was already airborne in the area. "Time is a crucial factor in reattachment surgery," the flight surgeon aboard the aircraft, Captain Kory Cornum, is quoted as saying.

"After picking up the woman, the crew used the sophisticated navigation and avionics equipment aboard their special operations helicopter to fly directly to the University of South Alabama Medical Center in Mobile, which has a full trauma capability."

The crew had not flown to Mobile or used the hospital's helipad before, according to *Airman*. "To locate the hospital's tiny helipad, they relied on night vision goggles, a projected map display, precision ground mapping, and the Doppler and inertial naviga-

tion systems, along with an infrared receiver."

Moving map displays, projected onto a cockpit screen from 35mm. color film, have been produced by the Aerospace Center for the HH-53 since the early 1980s, according to David M. Caldwell, chief of the Navigation and Aeronautical Systems Division (PRN). "However, the 'precision ground mapping' referred to in the article is not a DMA product," he added. "It refers to an active system that gives ground return, showing lakes, rocks and ridges as a radar map."

Filmstrip production for military aircraft began at the Aerospace Center in 1970, when filmstrips were first produced for the Air Force A-7D and Navy A-7E, according to Navy Lieutenant Commander Larry A. Lusk (PRN), filmstrip program manager. Filmstrips are still produced for the A-7, as well as the FA-18, and F-15E. Production is the responsibility of a section in the Mapping and Charting Department's Special Products Branch (MCCCB). Craig N. Brandenburg is chief of the section.

For the HH-53, the Center produces

29 filmstrips, each in two scales, based on Joint Operations Graphics (JOGs) and Operational Navigation Charts (ONCs). Each filmstrip provides a total of 270 square feet of chart coverage, giving aircrews access, on a single filmstrip, to an area that is roughly half the size of the continental United States at the ONC scale and some 20 percent of the continental U.S. at the JOG scale.

The map display automatically follows the flight path of the aircraft at whichever scale the aircrew selects. In addition to the filmstrip, AC provides descriptive map data, which is used by the mission computer aboard the aircraft, along with navigational data giving the aircraft's location, to select the appropriate geographical location for viewing.

How responsive are these moving map displays? According to Lieutenant Commander Lusk, it takes about five seconds for the computer to move from one end of a 35-foot filmstrip to the other. "You can imagine how useful these filmstrips could be in special operations, allowing little time for flight planning, especially at night or in adverse weather."

# Clearance Evaluation Is an Ongoing Process

By Col. Tex Hawkins  
Hq. Office of Security Police  
U.S. Air Force

**I**ssuing a personnel security clearance or determining if a person is suitable for assignment to sensitive duties are not final personnel security actions. They are determinations that an individual is trustworthy and likely to preserve national security.

A clear need still exists to assure that after an initial security determination is made, the individual receives continuing assessment. The organizational commander or manager, the supervisor, co-workers, and to a large degree the individual share the responsibility for this assessment.

**COMMANDERS** must ensure that personnel assigned to sensitive duties are instructed periodically on the national security implication of their duties and on their individual responsibilities. They must ensure that procedures and special counseling are available to encourage individuals to seek guidance and assistance on any personal problems or situations that may have a bearing on their eligibility to remain in a position of trust.

Some of these situations are:

1. Poor job attitude or performance.

2. Personal or family problems.

3. Undue pressure or emotional strain.

4. Signs of overindulgence in alcohol, use of illegal drugs, or abuse of prescribed medications.

5. Change in physical ability to perform assigned duties.

6. Indications of unusual, bizarre, or deviate behavior.

7. Frequent minor violations of laws or other irresponsible conduct.

8. Change in financial status, such as sudden or unexplained affluence or heavy indebtedness.

9. Marriage to a foreign national or other changes in marital status.

**SUPERVISORS** must understand their security responsibilities with respect to subordinates. Guidance should be provided through the base security program to help supervisors recognize indicators that may signal matters of personnel security concern. Instructions on reporting procedures must be given so that the appropriate authority can take action to protect national security and provide the individual concerned any necessary help to correct problems that may affect continued eligibility for access.

**INDIVIDUALS** must familiarize themselves with the security regulations pertaining to their assigned

duties and the standards of conduct required of all persons holding positions of trust. They must be able to recognize and avoid the kind of personal behavior that would result in rendering them ineligible for continued assignment in a position of trust. In the final analysis, the ultimate responsibility for maintaining continued eligibility for a position of trust rests with the individual.

Individuals must report:

- \* any form of contact, intentional or otherwise, with any citizen of a designated country unless the contact occurred as a function of official duties;

- \* any attempts by representatives or citizens of designated countries to cultivate friendships or to place one under obligation;

- \* any attempts by anyone:

- to cultivate a friendship that could place one under obligation they would not normally be able to reciprocate, or to offer money payments or bribery to obtain information of intelligence value;

- to obtain any classified or unclassified information through observation, collection of documents, or by personal contact.

- to coerce by threatening or promising to assist relatives living under foreign control, especially those living in a designated country.

- \* all personal foreign travel in advance.

**CO-WORKERS** have an obligation to advise their supervisor or an appropriate security official when they become aware of information that has potentially serious security implications regarding someone with access to classified information or someone employed in a sensitive position.

Continuing evaluation is not a program to spy on a friend, nor does it have the trappings of "Big Brother." Rather, continuing evaluation is a means by which everyone provides protection for the national security.

*Reprinted from the Security Police Digest, published by Headquarters, Air Force Office of Security Police, Kirtland AFB, N.M.*

## Activities

### USO Needs Volunteers

Attention employees and retirees! The James S. McDonnell USO at Lambert-St. Louis International Airport needs volunteers.

St. Louis is a rotation center for military personnel and their families traveling to Europe and the Far East, and the USO at Lambert is the largest in the world. It operates 24 hours a day, 365 days a year, and provides a home away from home for about 700 servicemen and women and their families each day at no charge.

Many civilian and military employ-

ees, their families and retirees serve as USO volunteers. They are enthusiastic about this experience and particularly mention the interesting people they meet and the opportunity to be of service to relocating families.

You can volunteer for as little as one six-hour period a month. There is an urgent need for volunteers on the midnight to 6 a.m. shift. Free parking is provided.

For more information, please contact Ann Meyer, Director of Volunteer Service, at (314) 429-1234.

## DMAAC's Outstanding Handicapped Employee

Although categorized as a slow learner, laborer John Clark "has proven to be one of the best employee selections made by the Supply and Services Division in many years," officials said. His job is to assist mechanics in maintaining 200 vehicles assigned to DMAAC or other government agencies in the St. Louis area. He is the Center's nominee for Outstanding Handicapped Federal Employee of the Year.

Inspection of Clark's work showed a constant level of timely and quality maintenance, officials said. As a result, he has been assigned jobs with minimum supervision, providing additional time to mechanics.

"Mr. Clark is steady and dependable. He is like clockwork; you know

**John Clark**



*'Steady as Clockwork'*

he will be at work and on time. He is proud of his position, loves his work, and takes advantage of the opportunity to show that he can be a productive employee. He does this every day. His handicap takes a back seat to his job. He is an inspiration to us."

Clark came to the Center in 1984.

## Fastest Draw in World

What happens when you draw and fire a revolver 40 times in 18.4 seconds? You could be labeled the "world's fastest draw," as Bob Arganbright (DPPA) was at the World Traditional Fast-Draw Championship held in Tombstone, Ariz., last month.

To earn the title of world champion, Arganbright beat 60 fast guns, who all fired single-action revolvers in a series of eight events, with five draws/shots per event. His prize was \$500, a four-foot trophy, and a silver ingot. Twice before Bob placed second in the contest, which is held every year in Tombstone, a silver boom town and site of the gunfight at the O.K. Corral.

## Toast to the Governors

The Toastmasters of Area 15 have elected Bill Mantinband (SDADE) as their area governor. Area 15 consists of nine clubs, including the two at DMAAC and a club Bill formed at the downtown Post Office. Bill succeeds Ron Snider (CMD), who was honored as the "Most Outstanding Area Governor" in District 8 at the recent District conference, held in St. Louis. District 8 covers the geographical area of eastern Missouri and western Illinois.

Ron is now lieutenant governor for the Toastmasters' Gateway Division, made up of two areas comprising clubs in or near downtown St. Louis.

## Most Outstanding Grad

AC's chief of Facility Security, SMSgt. Tadeusz Ziewacz, was honored as the Outstanding Graduate among 28 members of the Class of '88 who graduated from Park College at Scott Air Force Base. He received the Gail Livingstone Outstanding Graduate Award, which is based on a grade-point average of 3.5 or better, leadership, and character.

AC Deputy Director Col. Stephen F. Burrell attended the ceremony in which Sergeant Ziewacz received his B.S. in management. Livingstone was the proactive administrator at the Scott site before her death in 1982.

## Retirements

(Years of federal service are given.)

### July 2

Richard D. Wheeler (KCP), cartographer, 37 years.

### July 1

Patrick J. Reed (WG), cartographer, 26 years.

Robert B. Rivas (MCABC), cartographer, 32 years.

### June 30

Clifford D. Dunn (GAND), negative engraver, 38 years.

### June 11

Terry D. Vanbiber (KCIA), cartographer, 27 years.

### June 3

Donald R. Pauls (SDFAA), cartographer, 38 years.

Raymond V. Sovar (GANC), negative engraving inspector, 37 years.

## Hail & Farewell

Navy Captain Robert F. Brough arrived June 28 from the Navy and Marine Corps Reserve Center in St. Louis for assignment as Deputy Director for Plans and Requirements.

Air Force Lt. Col. Clyde S. Araki arrived June 30 from the Presidio of San Francisco for assignment as Director of Administration.

Air Force Lt. Col. Donald J. Armstrong Jr. left July 29 on a permanent

change of station to Maxwell AFB, Ala.

Air Force Major Douglas L. Repaal arrived July 18 from Yokota Air Base, Japan, for assignment as Director of Facilities Engineering.

Air Force TSgt. Richard J. Cargill arrived June 28 from Incirlik Air Base, Turkey, for assignment to the Directorate of Logistics Management and Systems Branch (LOSP).

## Charter Golf 1st Half Winners

Winners of the special outing that concluded the first half of the season for the Charter Golf Association were Mike Kelley--low gross, Joe Morrisroe--low net, Tom Deem--longest drive, Fred Munder--nearest-the-pin, and Ralph Haeffner--least putts.

Winners of the first half were Mike Kelley--A Flight, Thad Sudol--B Flight, Joe Morrisroe--C Flight, and Andy Lewandowski--D Flight. Runners-up: Ed Horner--A Flight, Becky Beck--B Flight, Tony Birkenmeier--C Flight, and Fred Munder--D Flight. Trophies were awarded to all winners and runners-up.

Membership for the second half of the season is only \$5. To join, call Mike Kelley at 524-2340.

BELOW, during special outing at the Tamarac Golf Course, Tom Deem joins teammates Becky Beck (left) and Kim Norgaard. Tom won a prize for the longest drive, while teammate Ralph Haeffner (not pictured) had the fewest putts.



Photo by Mike Kelley



Photo by Gerald Masucci

Stretching forward to scoop out a throw, Nadine Hudson puts out a runner at first base. Nadine plays for the Diamond Blues.

## DMAAC Softball

### Standings as of July 28

#### World Division

Team	Won	Lost
Pregnant Weasels	12	1
Gas House Gang	7	6
Deacon Blues	3	10
Wild Bunch	3	10
Tornado Watch	1	12

#### Women's League

Team	Won	Lost
Plum Crazy	7	2
Leftovers	5	4
Bobaloo	6	5
Diamond Blues	4	6
Chips Ahoy	2	7

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