

# Orienteer

DEFENSE MAPPING AGENCY AEROSPACE CENTER

Vol. XVI, No. 11

May 31, 1974

## Thompson Closes 33 Year Federal Career

by Norman Levine, AD

An April 1957 edition of the Orienteer featured the pending move of the Chart Research Division from Washington, D.C., to St. Louis and announced the arrival of Edward M. Thompson, Chief of that division as the "first to get into the Spirit of St. Louis." Now, after 17 years of sustaining that Spirit, Thompson has announced his retirement effective June 27.

He leaves DMAAC with 33 years of dedicated Federal Service behind him. His current and 1st assignment as Chief of the "Aero Info Team" bridges a career which included a direct involvement with all aspects of the field, of mapping, charting and geodesy.

A native son of Fargo, ND, Thompson studied surveying, economics, geography, and statistics at North Dakota State College. In 1941 he served the U.S. Coast and Geodetic Survey as a compiler of the 1:1,000,000 scale Regional Chart Series, the forerunner of WAC Charts and today's ONC Series. He later earned a private pilot's license and in 1944 engaged in aerial surveying activities. A year later, along with associates of USC&GS and the Aeronautical Chart Service, Thompson formed a private mapping company.

His service with ACIC began in

Plant computer activity, \$4,500,000 in validated savings were realized through ideas conceived by Thompson. His accomplishments in the field of automation led to his assignment in 1970 as physical scientist in the Scientific and Technical Staff Office of the P&D Plant.

Then in May 1972, Thompson was designated Chief of the Aeronautical Information Department.



Thompson

Under his direction the department's, air information automation plans were developed and are now in the early stages of implementation toward automating production of the DOD

The Defense Mapping Agency Hydrographic Center underwent a formal change of command yesterday at the Center in Suitland, Maryland.

Captain J. W. Davies, USN, turned over command to Captain S. E. Drummond, Jr., USN.

Captain Davies, who had been in command since July 1972, has been assigned to Command in Chief, Pacific for duty on the Joint Staff at Pearl Harbor.

Captain Drummond, prior to his assignment with DMAHC, was stationed with the National Oceanic and Atmosphere Administration, Department of Commerce in Washington, D.C.

## Ferguson Returns To Aero Info

Gilbert Ferguson will return to the Aeronautical Information Department replacing the retiring Edward M. Thompson as chief, it was announced recently by DMAAC Director, Col. Donald D. Hawkins.

Ferguson had held the department head position prior to moving to his present position within the Plans, Programs and Operations Directorate.

A native of Illinois, Ferguson began his career with the government as an Air Force pilot in 1942. His service during World War II included flying "the

## New Director At Hydro

## Youth Summer Employment Program Set For June

Some 85 youths will have an opportunity for gainful summer employment with DMAAC under the Federal Summer Employment Program for Youth, reports Bill Warden, program coordinator for Personnel.

In addition to the Federal program the agency will assist the St. Louis Mayor's Council on Youth program by providing employment for 20 youths.

Under the Federal program the student aids currently working for the agency will be supplemented by summer aids to bring the total number under the two programs to 85. Summer aids are expected to come onboard about mid-June and work through August 30.

Youngsters selected for the program are from poverty level income families as determined by the Department of Labor. Employment applicants are referred to DMAAC by the Missouri Employment Service. Applicants must be age 16 and not over 22 at the time of appointment.

Youths employed under the Mayor's council on Youth program are provided employment by the agency but salaries are paid through a city funding program.

## Buckle Up!

It is now Defense Department policy that military and civilian personnel will wear safety belts when operating or riding in a privately owned four-wheel motor vehicle on base or when driving or riding in a privately owned vehicle operated off base while on official business.

In addition, members will be required to use protective helmets while riding motor cycles on base and while on official business off base.

City youth are expected to begin work about mid-July.

According to William Brehm, assistant secretary of Defense, an important part of the Federal Summer Employment Program for Youth is the effort to see that needy youths have opportunities for Federal employment experiences. In this regard, a general goal has been set for the employment of one needy youth for every forty regular employees.

"In addition to the values gained by young people through their involvement in a wide range of activities," President Nixon explained, "Federal departments and agencies benefit. Young employees can come as replacements for regular employees who are on vacation. They help do the work generated by increased workloads which agencies experience during the summer months. They provide Government agencies with a chance to expand relationships with educational institutions, and they frequently gain fresh insights from contact with these young workers."

## Bond Drive Report

The 1974 U.S. Savings Bond Campaign is drawing to a close. While final figures are not yet available, as of May 24 a total of 115 employees have joined the payroll savings plan with a total allotment of \$2,211 and 158 employees have increased their allotment. The goals for this year are to increase participation by at least 10% and to have the percent bond holders increase their allotment.

mapping company.

His service with ACIC began in 1948 as an analyst in the Research Section of the Washington Plant. Seven years later he became Chief of the Chart Research Division.

While still located in the Washington area, he recognized the need for a professional geodetic capability at the center and was instrumental in the establishment of the geosciences branch as part of his division.

Thompson reported for duty at the Center in St. Louis on March 16, 1957. In addition to responsibilities for the move of his division, he was asked to serve as deputy chairman of the "Biloxi Study Group." This group established the organizational structure and management guidelines which became basic to ACIC operations during the 60s and still prevail under DMAAC.

In trying to upgrade the professional status of the Center, the retiree was the first official to recognize the need for long-term, full-time professional training of selected employees. He then led the way in 1958 to prove this concept.

Thompson remained chief of the Chart Research Division until 1963 when he became assistant chief of the P&D Plant. While in this capacity, he chaired the ACIC Span of Control supervisory ratio guidelines for DMAAC.

During the 60s, the Center's missions expanded and the means to satisfy new DOD requirements led to center involvement in automated data processing. Throughout the early era of P&D

implementation toward automating production of the DOD Flight Information Publications. The future may well recall this as another milestone in the history of DMAAC.

The present however must focus upon the retirement of Mr. Edward M. Thompson. To editorialize: we the people of DMAAC look to you with the highest regard and respect; we thank both you and your wife Mickey; we wish you and your family every fulfillment of health and happiness.

A retirement party for Ed Thompson will be held June 20th at Inn St. Louis.

## New Services Division

Concurrent with the operation of the new PD Distribution Division in late April, the Services Division of Directorate of Logistics became operational. The Services Division is comprised of the following: Chief, Services Division (Captain Campbell), LOT; Travel Section, LOTA; Contract Maintenance Section, LOTC, Vehicle Operations/Maintenance Branch, LOTV and Materials Destruction Branch, LOTD.

Freight Traffic, LOTF, and Packing and Preservation, LOTP, functions formerly part of the LOT Transportation Division, are now part of the Distribution Division. Persons requiring in-bound/outbound military or commercial shipments will now contact PDD rather than LOT.

in 1942. His service during World War II included flying "the Hump" from India to China.

Following service he, attended Washington University in St. Louis and in 1948 came to the Aerospace Center as an air navigation technician in the Aeronautical Information Division.



He was recalled to active duty in 1951 with the Army National Guard and served in Korea.

He returned to the Aeronautical Information Division in 1953. From 1956 to 1960 he served in various staff positions within the Operations Directorate and the Production and Distribution Plant. In 1966 he became Chief of the Aeronautical Information Department. He stayed with Aero Info until the formation of the Defense Mapping Agency when he was transferred to his present position in PP.

Ferguson is married and the father of two children.

while riding motor cycles on base and while on official business off base.

Also, commanders will have the authority to prescribe the protective devices which will be required to worn by military people riding vehicles off base in areas out-side the United States, its territories and possessions, where local laws do not prescribe the wearing of safety belts, approved safety helmets and eye protective devices.

bond holders increase their allotment.

While the formal campaign is ending we want to remind everyone that it is never too late to start saving, and with Series E Bonds now paying 6%, what better time to start? As little as \$3.75 a pay day will start your savings plan going. If you still have any questions concerning the savings bond program, or you want to join, contact the key worker or project officer for your area.

## Armed Forces Display Viewed by Thousands



Interested spectators view the DMAAC exhibit during Armed Forces Day at Scott AFB, May 18. The display highlighted the technological advancement of charting over the past 50 years from the days of "seat of the pants" flying to today's sophisticated navigational systems. Over 50,000 persons attended the all day event. DMAAC also exhibited at the Illinois State Air Force Association Convention held that same day in Belleville.

## Open Letter On Safety

### To All Employees:

It's high time everyone of us took time to be safe. Chances are we all slip a little, now and then, where it comes to making sure we're as safe as we should be.

Accidents can often be traced to little things we DIDN'T do that could have avoided an accident. Often it takes only a second to make sure. A minute saved, at the cost of an accident, is false economy.

With a little effort, I'm convinced, we can improve our accident-free performance. Let's make the most of our time by applying the principles suggested in our "Take Time to be Safe" campaign. I heartily endorse this program and hope that you will all participate. It is my wish that the program will contribute to your personal well-being on and off the job.

I'm pledging to "Take Time to be Safe" and want you to do the same.

JAMES H. ST. CLAIR  
Colonel, USAF  
Deputy Director

## Freedom Foundation 1974 Theme

The Freedom Foundation has announced that its 1974 Armed Forces letter writing contest theme is "Human Goals—The Advancement of Human Dignity." The program has been endorsed by Gen. R.H. Ellis, Air Force vice chief of staff, who said, "I encourage active support for the Freedoms Foundations Awards Program at all levels of command." The 1974 theme directly supports the Department of Defense Human Goals Program.

The best letter writers in the active-duty Armed Forces competition and Reserve forces event will each receive \$1,000 from the Freedom Foundation at Valley Forge, Pa. Additionally, the top 10 active-duty and Reserve winners of the 1974 contest will be invited to Valley Forge to receive awards at the annual presentation

Entries also may be in essay or poetry form. The length should be between 100 to 500 words. Entrants should include full name, social security number, military address, service component, and complete permanent home address, including ZIP code.

In addition to the letters award category, there are some 17 other contest categories in the annual Freedoms Foundation Awards Program, some of which may suggest submissions by or on behalf of individual military members and organizations. These include public addresses, sermons, editorials, letter-to-the-editor, magazine and newspaper articles, radio and television programs, community projects, and governmental unit activities.

## Bits And Pieces

From the Black book:

Now that the Memorial Day holiday is over everybody is making their plans for summer vacations. Our office is no exception. In fact, some have been fudging a little by making plans as soon as last years vacation was over. As the weather grows warmer the conversations increase about what to see, what to wear, what to do, etc. This year the office plans range from a Florida tour to an Alaskan cruise and of course there's my overnight campout. Vacations are always nice three ways—when you plan 'em; when you take 'em and when you come back and tell all about 'em.

—0—

Speaking of vacation—don't forget that the youngsters are beginning to end their school terms and that means more and more children will be playing on or near the streets. Driving alertness is the key to safety.

dib. . .

## Generals Brown And Jones Move

President Nixon has nominated Gen. George S. Brown, Air Force chief of staff, to become the next chairman of the Joint Chiefs of Staff. General Brown, who assumed his present post in August 1973, would become the first Air Force general to hold the nation's highest military position since Gen. Nathan F. Twining retired in 1960.

Upon confirmation by the Senate, General Brown would replace Adm. Thomas H. Moorer

## Dear Consumer

# Getting Ready For Metric

By Virginia Knauer  
Special Assistant to the President  
and Director  
Office of Consumer Affairs  
Department of Health, Education and Welfare

One quart equals 0.95 liters.

Ten miles equals 16 kilometers.

And while 37 degrees Fahrenheit is not much above the freezing point, 37 degrees centigrade could be considered a heat wave.

These are a few examples of the changes we can expect when the United States converts from its customary system of measurement to the international system—the metric system.

Every industrial nation except the United States has officially adopted the metric system of measurements or has committed itself to adopt the metric system. It probably will not be too many years before our government also adopts the metric.

The metric system has become popular throughout the world for two reasons:

1. It is simple.
2. It is easy to use.

If you have any doubts about the ease of metric system, consider our American money system. It is based on the metric system: \$1, \$10, \$100, \$1000 and so on—\$1 is a tenth of \$10; \$100 is a tenth of \$1000.

That's easy.

But our other measurements are not so easy.

We have to learn—and try not to forget—our hodge-

Or, this for measuring length:  
1 meter—1 meter  
10 meters—1 dekameter  
100 meters—1 hectometer  
1000 meters—1 kilometer  
All these measurements are easily divided—by 10.

Though we are used to measuring by our present system, it should not be difficult to adjust to using the metric system. If you want to get a head start or want to learn more about the metric system just for the fun of it, you should find more information at your local public library.

National Bureau of Standards has published two aids for learning how the metric system works. One is a card that will fit into your wallet or billfold. It is called a **Metric Conversion Card**. The other is a booklet entitled **What About Metric?**

Valley Forge to receive awards at the annual presentation ceremony. A separate letter essay award contest for Junior Air Force Reserve Officers Training Corps cadets will offer a Patriot Award of \$500 and honor medal.

There also will be awards of \$100 and \$50 and George Washington Honor Medals and honor certificates. Last year, 149 Air Force active-duty and Reserve members won awards.

## Promotions

DMAAC promotions effected during April include: Solomon E. Ball, WP-08; Jimmie D. Bauer, GS-13; Marilyn A. Brouk, GS-04; Judith E. David, GS-05; Vivian A. Dednam, GS-05; Gwendolyn Dunn, GS-04; Bobby M. Hagler, GS-13; William A. Hawkins, WP-08; Diane E. Hinsen, GS-05; Christine E. Hoelker, GS-04; Jo Ann Hunt GS-03; Lawrence B. Kleinkemper, GS-05; Marlene C. Kunz, GS-05; Susan C. Layton, GS-04; Margaret A. Liberth, GS-05; Kenneth E. Mack, GS-05; William A. Miller, GS-14; Rose M. Mulnik, GS-05; Frank M. Olson, WS-05; Margie A. Pate, HS-05; Sheri E. Patefield, GS-03; Ronald J. Pierce, GS-14; Mary C. Ruffin, GS-11; Alton E. Skinner, GS-12; Richard C. Webster, GS-14; Joseph S. Wojcicki, GS-12.

All entries must be sent before Oct. 31 to Freedoms Foundation, Valley Forge, Pa. 19481.

## AF Strength

Total Air Force active-duty strength April 1 was 664,401, compared to 669,447 members March 1. There were 696, 133 people in the Air Force April 1, 1973. Combined strength of the Armed Forces April 1 was 2,187,252. This represents a decrease of 7,424 from March 1 when the total was 2,194,676. There were 2,290,941 persons in uniform April 1, 1973.

The ORIENTOR is an official newspaper, published bi-weekly on Friday by and for the personnel of the Defense Mapping Agency Aerospace Center, at St. Louis, Missouri. Opinions expressed herein do not necessarily represent those of the DOD.

**Col. Donald D. Hawkins**  
Director

**David L. Black**  
Chief, Office of Information  
Editor

Senate, General Brown would replace Adm. Thomas H. Moorer who is scheduled to retire in July.

The President has also nominated Gen. David C. Jones, Fourth Allied Tactical Air Force commander and U.S. Air Forces in Europe commander in chief, to become Air Force chief of staff.



Jones

We have to learn—and try not to forget—our hodge-podge system. For example, an ounce is one-sixteenth of a quart, or a pound, but an inch is one-twelfth of a foot. A pint is half a quart, but a foot is a third of a yard.

Using the metric system, our weight measurements would be in easily divisible numbers, like this:

1 gram—1 gram  
10 grams—1 dekagram  
100 grams—1 hectogram  
1000 grams—1 kilogram

The other is a booklet entitled **What About Metric?** Both are available from Superintendent of Documents, Government Printing Office, Washington, D.C. 20402. The card sells for 25 cents, and the booklet (stock no. 0303-01191) sells for 85 cents. Make check or money order payable to Supt. of Documents.

If you start learning about metric now, you'll be miles—or kilometers—ahead of your friends.

## Calendar of Events

June	Event	Where	Information
4	Bag Meeting	Dining Hall	H. Malone/4328
6	Assn. of Litho Club	Salad Bowl Rest.	L. Held/4845
11	FBA Luncheon	Carpenters Hall	D. Black/4142
14	AFA Dinner Mtg.	Saro's Rest.	D. Kuhn/8254
14	Flag Day		
16	Father's Day		
20	E.M. Thompson Retirement Party	Inn St. Louis	N. Stender/8378
21	Baarent TenBroek Retirement Party	Pietro's	J. Czarnecki/4181
24	Coin & Stamp Club	RD Conf. Room	Capt. Campbell/4752
26	Wm. Slovacek Retirement Party	Inn St. Louis	E. Scott/8404
28	T.C. Finnie Retirement Party	Fort McNair, Wa. DC.	S. Carter/4307

Due to limited summer activities calendar will be discontinued and resumed in September.

## Four More Reach Thirty

**KENNETH E. SHOCKLEY, ADDE**, began his Federal career when he enlisted in the U.S. Army in October 1940. He entered the aviation cadet program in November 1942 and was commissioned upon graduation in August 1943. He served in the European and Mediterranean Theaters with the 8th and 15th AF receiving his discharge in September 1945. He was recalled to active duty in April 1948 and was assigned to the Far East, serving during the Korean conflict. He also spent a tour of duty in Morocco before receiving his discharge in August 1953.

He came to DMAAC in July 1954 and has been assigned to the Aeronautical Information Department where he is presently supervisory air information specialist, supervisor of the section that participates in the production of the domestic FLIP publications.

**JOHN T. LAWLER, PPCF**, reached the 30 year mark early this month. His Federal career began in March 1943 at the Army Map Service, St. Louis Field Office as a topographic draftsman. When the field office closed in March 1947 he went to work at Rand McNally in Chicago. A year later he returned to St. Louis and resumed his Federal career when he joined DMAAC in April 1948. He was assigned to the Cartography Department until November 1952 when he was reassigned to the

Directorate of Operations as chief, Services Programs Branch. Since the reorganization in June 1972 he has been chief, Flight Information Branch. He served as a U.S. representative to the NATO Cartographic Conference during 1970-71. He is presently Chairman of the DMAAC Study Group for Implementation of DMA Distribution Realignment Plan.

**CLIFFORD R. YOUNGSTROM, RDS**, entered the U.S. Navy in January 1944 and served until November 1947, advancing from apprentice seaman to turret

He came to DMAAC in April 1948 and was assigned to the Photogrammetry Division until 1951 when he was assigned to the group who organized the first training division. During his years at DMAAC he has been assigned to various divisions and staff of the P&D Plant and the Directorate of Operations and, since last year, has been assigned as Chief, Production Support Division, Research Department.

**MARTIN STEIN, PDWB**, began his Federal career when he was



Shockley



Lawler



Youngstrom



Stein

captain 2d class (acting). He served in the Pacific area (Philippines, Iwo Jima and Okinawa) aboard the USS Crowley during WWII. He was a member of a prize crew on the Japanese battleship Nagato during the Atomic Bomb Tests at Bikini Atoll in 1946. He then served as a main battery turret captain on the heavy cruiser USS Fall River in 1946-47 prior to discharge.

inducted in the Army Air Corps in September 1942. He was assigned as a warehouseman and served in the ZI until his discharge in February 1946. He returned to Federal service when he came to DMAAC in May 1948. Since that time he has been assigned within the Distribution Division where he is presently a warehouseman in the Distribution and Storage Branch.

## The Annual Run....



"And around the far turn into the backstretch" - - - It's not the run for the roses—it's the annual military qualification run. Leading the pack, or as some of the stragglers put it "setting the pace," is the Center's Deputy Director, Col. James St. Clair. All military members of the work force, 45 years of age and under are required to make the run as part of the Air Force physical fitness qualifications. (Photo by David Touchette)

## Early May Retirements

**WM. NEAL GORMAN'S, ADPP**, retirement was effected May 2nd. His career began when he entered the Army Air Corps in August 1941 at Des Moines, Iowa. After graduating from radio operating/mechanics School at Scott Field he was retained as an instructor. He was reassigned to Air Transport Command in 1944 and served in the China/Burma/India theatre of operations where he made some 90 trips over the "Hump" flying gas for

plan to gain 30 lbs.—and then travel—first on the agenda, Ireland."

Other retirements, for which no information was received by the Orientor include:

**ALBERT J. COTEA, ADDN**, was retired May 7th with 30 years 8 months total Federal service. At DMAAC since July 1964, he was an aeronautical information specialist assigned to the Aeronautical Information Department.

## Know How Much Credit Buying Costs

By MAJ. HARLAN CYPHERS,  
USAF Reserve

year and pay 6 percent interest

next two years. Here again, the

Until the enactment of the "Truth in Lending Law," interest and finance charges were stated in so many differing ways that it was virtually impossible to know just what credit was costing you. The "Truth in Lending Law" requires creditors to state charges in a uniform manner so that consumers know exactly what the charge is, thus allowing them to make more readily comparisons of the charges from different credit sources.

We all use credit in one form or another; whether it is a credit card, furniture purchased on the installment plan, a car that is financed, a mortgage on a house, or borrowing for other needs. The law requires that two things be disclosed—the *finance charge* and the *annual percentage rate*.

The finance charge is the amount of money paid to obtain credit, while the annual percentage rate provides the basis for comparing credit costs regardless of the dollar amount or the length of time over which the payments are made. Both the finance charge and the annual percentage rate must be displayed prominently on the forms and statements used by a creditor to make the required disclosures.

Many of us know what interest is; 6 percent per year is an example. If you borrow \$100 for one

year and pay 6 percent interest you pay \$6 for the use of that money. If you have the use of the entire amount for one year you are paying an annual percentage rate of 6 percent. But if you repay the \$100 in 12 equal monthly installments, you do not have the use of the entire amount for the full year. In fact, over the entire year you have the use, on the average, of only about half of the full \$100. So the \$6 charge for credit in this case becomes an annual percentage rate of about 11 percent.

Some creditors levy a service charge, a carrying charge, or some other charges instead of interest, or perhaps they may add these charges to the interest. Under the Truth in Lending Law they must now total all such charges, including the interest, and call the sum the finance charge. Then they must list the annual percentage rate of the total charge for credit.

The new law also gives a new look to the advertising of credit terms. It says that if a business is going to mention one feature of credit in advertising, such as the amount of down payment, it must mention all other important terms, such as the number, amount, and period of payments that follow. For example, if an advertisement states "Only \$2 down," it must also state that you will have to pay \$10 a week for the

year and pay 6 percent interest over the "Hump" flying gas for our Air Forces in China. He was awarded the Distinguished Flying Cross, Air Medal with clusters, Presidential Citation, Asiatic Theatre Ribbon with three battle stars. He returned to Scott Field as a civilian instructor until his discharge in December 1945. He came to DMAAC in October 1958 as an air navigational technician in Aeronautical Information Department where he was assigned as an aeronautical information specialist at time of retirement. When queried on his retirement plans, he replied, "I

One other important provision of the Truth in Lending Law is specifically designed for your protection in case you use your home as collateral in a credit transaction. Now, when you enter into a credit transaction in which your home is used as collateral, the law gives you three business days to reconsider and cancel the transaction, should you desire. The creditor must give you written notice of your right to cancel and if you decide to cancel the transaction within the three-day grace period, you must notify him *in writing*.

There is one noteworthy exception to the previously mentioned right of cancellation. This right does not apply when you sign a first mortgage to finance the purchase of a home.

The Truth in Lending Law does not fix interest rates or other credit charges. It only requires that these charges and rates be *disclosed* and stated in terms of *annual percentage rates*. However, the Truth in Lending Law *does* provide you with sufficient information to enable you to shop around and get the best deal on your credit purchases.

Read closely the credit information that is provided to you and get the most for your money.

Department.

**LOUIS F. PARIZON, CDIN**, an engraver foreman, retired effective May 19th. All but a year and a half of his almost 20 years total Federal service was at DMAAC.

**ROBERT H. SICKING, CDCC**, retired May 10 with 26 1/2 years total Federal service. A cartographer, all but three years of his service was here at DMAAC.

**JESSIE L. WALL, JR., CDSC**, retired on May 11th with over 25 years Federal service. A photographer (M&C) he had been at DMAAC the past ten years.

## Honor Society Member

Jacqueline J. Popp, daughter of Stuart E. Popp ADDE-3, was enrolled as a permanent member of the National Honor Society during the first of the month.

Jacqueline is a sophomore at Bishop DuBourg High School and has maintained a straight "A" average for the past two years.



## ICAF Certificate



Joseph France, AD, receives his diploma in military management awarded him by the Industrial College of the Armed Forces. The presentation was made by DMAAC Director, Col. Donald D. Hawkins.

# ASP Science Awards

Two St. Louis area girls were the winners recently of the St. Louis Region American Society of Photogrammetry awards in the St. Louis Science Fair sponsored by the Post Dispatch.

First place award was presented to Laurel Fairing of Parkway West Senior High School for her exhibit "An Investigation of the Orientation of Stomata". The second prize went to Mary Kay Sullivan of St. Joseph's Academy for the presentation "The Use of Projections in Map Making."

Miss Fairing's exhibit determines whether the axis of stomata (the breathing pores of a plant) have a preferred orientation or whether they are randomly

oriented. The electron microscope was used in the experiment.

Miss Sullivan used the mathematical concept of projections to transfer a map of the United States from a sphere to the surface of a cylinder, a cone, and a plane and determine the most accurate projection.

The first place winner was awarded a \$50 saving bond by ASP and the second place a \$25 bond.

Three DMAAC employees who are members of the local ASP were judges during the event. They are William Cannell, Gerald Elphingstone and David Rogers all of MD.



David Rogers (left), William Cannell and Gerald Elphingstone look over the prize winning entry, as judged by the local American Society of Photogrammetry chapter, in the recent St. Louis Science Fair. The three men served as judges to select an exhibit by a Parkway West High school student as the winner.

## Space Missions Pay Says Skylab Pilot

# Stoessel At Quality Control

Otto Stoessel, chief of DMAAC Printing and Distribution Department, recently addressed the 28th Annual Technical Conference of the American Society for Quality Control held in Boston. Speaking on the subject "Some Ideas on Quality Control Techniques for the Printing Process", Stoessel pointed out the need to include quality control provisions in equipment manufacturing contracts to best define, in operational terms, quality and performance requirements. He also presented a method for building in a device to achieve instant analysis of registration quality and degrees of defects on each printed sheet, and a quality control system on control of printed screen tints in many colors.

The systems described by Stoessel are in operation within his department at DMAAC.

The American Society for Quality Control is made up of professionals engaged in management, engineering, and scientific aspects of quality and reliability. It serves some 20,000 members.

## FBA Officers

Two members of the DMAAC workforce have been elected to serve as officers in the Federal Business Association of Greater St. Louis during the coming year. The two are Shirley Sostman elected 2nd Vice President and George Shalhoob who was elected Treasurer.

Other new officers elected at the May FBA meeting were: Norman Mueller (GSA) President; James Harris (RCPAC) 1st Vice President and Pat Hecker (TROSCOM) Secretary.

John Johnson, DMAAC Com-

# Award Winners



Define



Stampley



Overlease



Walschauser



Yorke



Slovacek



Willenbrink



Wander



Charleston



Watford



Tichenor



Cumbow



Pauls



Barnhart



Coleman



Cracchiolo

Certificates and pins for completing 20 years of Federal service were received by the first six DMAACers pictured above. Beginning top row, from left to right: Donald Define, MDCT, James H. Stampley, MDCO, Samuel E. Overlease, MDR, Robert Walschauser, MDR, Robert E. Yorke, MDE and William J. Slovacek, ADDP.

The remainder received suggestion awards: Paul H. Willenbrink, LOP, received \$130.00 for a suggestion to streamline contract procedures involved in compositing negatives; Kenneth H. Wander, ADDN, received \$122.50 as his share of an additional award for a suggestion which he and the late Ken Sarber

Watford, CMD, received \$25.00 for a suggestion to preserve silver recovery power units from moisture and possible spillage when refilling by mounting on a stand several feet over exhausted hypo trays; Ethel J. Tichenor, MDA, received \$25.00 for a suggestion to place a photo positioning diagram in the Nistri log and instruction book to help assure correct positioning of film positives; Jack Cumbow, MDC, a \$25.00 award for suggestion to install an alerting device on the Calcomp Drum Plotter to signal job completion; Donald Pauls, MDD, received \$25.00 for his suggestion to improve Target Reduction Computation Sheets; Harold C. Barnhart, ADPA, \$25.00 for suggestion to provide a

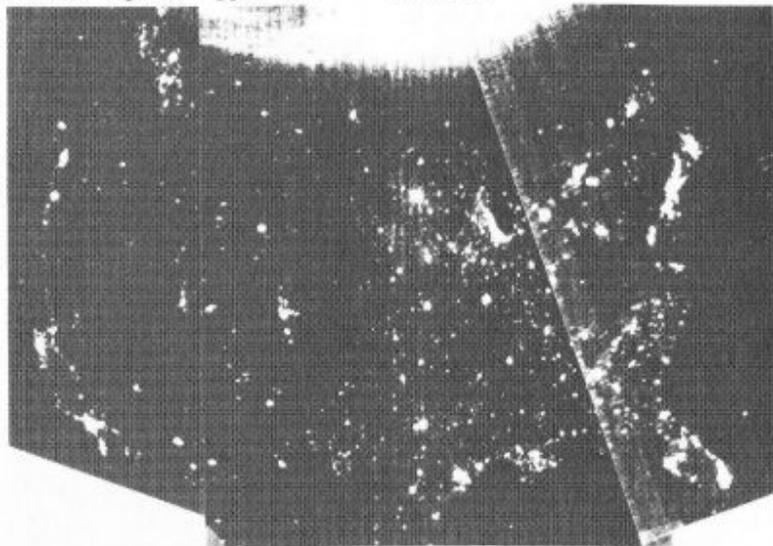
The taxpayer gets his money's worth from the space program says Jack Lousma, pilot of the Skylab 3 mission.

Speaking in a television interview over the American Forces Radio and Television Service the Marine lieutenant colonel said, one spinoff of space technology to the workaday world comes from weather satellites, hopefully pointing to a new era of tornado and hurricane forecasting. Yet another space application —

communications satellites — has made world wide television everyday commonplace, he said.

NASA astronaut Lousma is now the backup pilot for the coming 1975 joint American-Soviet space mission.

"It is an excellent opportunity to conduct international communication and cooperation, not only with the Soviets but also with other countries around the world," he said.



**VIEW FROM THE TOP**—Visual sensors of a satellite in the Defense Meteorological Satellite Program captured this spectacular display across North America of the Northern Lights (Aurora Borealis). The lights of the metropolitan areas throughout the United States can also be seen. (U.S. Air Force Photo).

John Johnson, DMAAC Comptroller, was chosen to serve on the FBA Executive Council.

Installation of officers will take place at the June 11th meeting.

Asked if millions spent in space could be better spent on earth, Lousma said, there were equally pressing social problems in 15th and 16th Century Europe that didn't stop Columbus and other explorers from venturing out.

"It was the same when the airplane was developed and when the railroad was developed or the automobile. People said, let's keep that thing out of here, let's keep the place like it was."

Lousma predicted that, "in 30 or 40 years, a critic of the space program will be a hard person to find, and people will wonder then why anybody ever criticized about going into space."

When asked about the astronaut of tomorrow, the Marine Corps aviator spoke of a newer breed, that of scientists—PHDs in geology, solar physics, astronomy—who are selected for their educational backgrounds and then taught to fly.

"I think, in the future, when the space shuttle becomes operational, we will probably have two astronaut or test pilot types who fly and will be able to carry along passengers who may have never had an flight experience whatsoever but who do have a purpose for being in space."

The space shuttle program is

which he and the late Ken Sarber submitted which changed the pricing structure of FLIP contracts; Vernon Charleston, CMD was awarded \$37.50 for a suggestion to update and revise the B3500 Computer Production/Test Instructions; John A.

for suggestion to provide a looseleaf format for the dissemination of new acquisitions in Data Reduction Division; Virginia G. Coleman, CMD and Eleanor A. Cracchiolo, CMF received notification of adoption letters.

## Canadian Visitors



aimed at the 1980's. It involves a spacecraft to be launched like a rocket, fly like a spacecraft, but be able to reenter the atmosphere and land like a plane.

What about women in space?

"Oh, yes," he said, "I believe that in the 1980's women will be flying in space . . . In fact, in the past six months or so, several military nurses have been undergoing tests to determine the capability of female physiology to withstand the rigors of space."

Students of the Canadian Forces Instrument Check Pilot School received a briefing in Aeronautical Information Department during a recent tour of the Center. The briefing was conducted by Charles Bonham. The tour provided necessary background experience for the instructional staff and a familiarization of the course members with problems and developments pertaining to instrument flying and air traffic control.