

ACSM/ASP Convention Termed "Best Yet"

The first ACSM/ASP national convention to be held outside the Washington, D.C. area ended last Friday at the Chase-Park Plaza Hotel in St. Louis with accolades from all participants.

Attendance was tops as over 2800 witnessed the five days of convention sessions. More exhibitors than ever before displayed their products and equipment for conventioners.

"We really didn't expect to have much of a turn out here in the mid-west," one exhibitor told the Orientor, "but the response to our exhibit has been great. I'm even going home with orders in my pocket." His comments were typical of those received from many of the exhibitors and conventioners.

Session rooms were jammed for each speaker with some of the larger session rooms accommodating 150 and more.

The keynote speaker, Dr. Robert N. Colwell of the Space Sciences Laboratory-University of California, drew more than 1200 as he discussed the information retrieved from the remote sensing applications of ERTS and Skylab.

Papers presented by DMA personnel were well received at the various sessions as scientists, engineers, educators and others gathered to exchange ideas and acquire greater knowledge.

"The hard working people who set up this convention are to be complimented," said a high official of one of the technical

societies involved in the convention. Most of the convention working group was composed of DMAAC employees.

Among the attendees at the convention were representatives of 17 foreign countries and exchange students attending colleges and universities in the United States.

DMA Director, Lt. Gen. Howard W. Penney, addressed a joint session of the societies March 14 on "Putting It All Together," a discussion of the Defense Mapping Agency and its past, present and future.

Orientor

DEFENSE MAPPING AGENCY AEROSPACE CENTER

Vol. XIV, No. 31

March 22, 1974

Retirement A "Big Adventure"--Chappas

Over 30 years ago a young student at the University of Illinois, Walter J. Chappas, donned an Army-Air Corps uniform and began training as a bombardier. That was to be the first step in an impressive military career. A career which comes to a close this month as the DMAAC Director is honored at change of command and retirement ceremonies, March 28.

A native of Bend, Ill., the colonel received his commission in 1944.

The Orientor asked him what were some of the major changes he had noted in the military service during his career?

"The move toward professionalism by 99% of the force has been marked. The earlier approach to mission accomplishment was by gut feeling management and brute force implementation. Today the emphasis is clearly on scientific analysis and professional application with greater thought placed on the realistic planning process."

Heroics Earn Air Medal At CTS

The Air Medal, an award for heroism, was presented to Sgt. Ronald Craig of the DMAAC Cartographic Technical Squadron, Calif., during February's Commander's Call.

Airman Rebecca Caldwell of the March AFB BEACON interviewed Sergeant Craig and an account of that interview is reprinted below:

"The water was cold as he splashed through it to save a mother and her nine-year-old daughter from drowning, but he didn't feel it until he was out of the water.

Sgt. Ronald Craig, remembered this when he received the Airman's Medal Tuesday for his heroic deed.

It was a warm June Friday afternoon. Craig had finished a

During the 1944 to 45 time frame the colonel flew in over 30 combat missions in the European Theater of Operations. Both the Distinguished Flying Cross and the Air Medal were awarded the retiree for this action.

In 1945 he returned to the states and married Evelyn Gaddo, also of Bend.

For a honeymoon he took his bride to Tokyo where he was assigned as a bombardier with the 6000 Base Service Detachment.

He later began training as a navigator-bombardier and was subsequently assigned to Offutt AFB, Neb. It was here that he began a pattern that was to continue throughout his military career, a pattern of providing himself with as much education as possible. He attended night courses at the University of Omaha and later at George Washington University in Washington during his tour of duty in the capitol. He is also a graduate of the Air Force Command and Staff College and the Armed Forces Staff College.

In 1956 the colonel began the first of several years to be spent in the nation's capitol. His first duties were with the 1132 USAF Special Activities Squadron. In 1959 he went to the 1125 USAF F/A group at Arlington Hall Station, Va.

After a year at the Armed Forces Staff College he returned to the same unit for duty as intelligence officer. In 1962 he was assigned as intelligence staff officer and research and development officer for the assistant chief of staff intelligence, Hq. USAF.

The Orientor asked the Director, "Now that you've been through it all, would you recommend the Air Force as a career for young people today?"

"The Air Force career deserves careful consideration by every young man and woman. The broad spectrum of careers throughout the industrial base of our country are also available in the Air Force with





Convention exhibits drew plenty of attention. Here Post Dispatch photographer Lester Linck prepares to snap the shutter on DMAAC personnel Chuck Hamilton and Nancy Gresham at the Defense Mapping Agency exhibit. Additional photos of the convention on page 4.

Some DMA Units Inactivated Others Added: DMAAC Affected

Several DMA units, both stateside and overseas, will be inactivated during the last month of the fiscal year, according to information received from the headquarters.

Three DMAAC overseas units are affected by the orders. They include the FIO-Pacific Detachment 1 (Clark AB, Philippines), Detachment 3 (Kadena AB, Okinawa) and Detachment 5 (Yokota AB, Japan). All inactivations are effective June 30 of this year.

The orders also call for the establishment of two DMAAC units by July 1. These are the Defense Mapping Agency Depot, Aerospace Center Detachment at Clearfield, Utah and the Defense Mapping Agency Depot, Aerospace Center Detachment at Philadelphia, Pa.

Other DMA units affected by the closing order are the Hydrographic Center Depot at Clearfield, Utah; the Hydrographic Center Depot at

Philadelphia; the Topographic Center Depot, Baltimore and the Hydrographic Center San Diego Office Detachment, San Pedro, Calif.

Units established in addition to the two DMAAC units are the Defense Mapping Agency Depot, Facility Manager Office, Clearfield; Defense Mapping Agency Depot, Hydrographic Center Detachment, Clearfield; Defense Mapping Agency Depot, Topographic Center Detachment, Clearfield; Defense Mapping Agency Depot, Facility Manager Office, Philadelphia; Defense Mapping Agency Depot, Hydrographic Center Detachment, Philadelphia; and the Defense Mapping Agency Depot, Topographic Center Detachment, Philadelphia.

Stocking of the two DMAAC depot detachments is already underway with products being transferred from St. Louis to the respective depots.

afternoon. Craig had finished a detail early and decided to spend the rest of the day at the base lake.

The Offutt Air Force Base lake covers 75 acres. It was almost placid, only a slight breeze rippling its surface and helping a 14-foot sailboat to skim across the scene. On the far side of the lake a fisherman lazily watched a motionless bobber.

Craig, clad only in a pair of cutoff blue jeans, stretched against the warmth of the penetrating sun, feeling the sandy beach scratch against his back.

Feminine screams suddenly shattered his tranquility.

"I looked out on the lake and saw a mother and daughter frantically grabbing for their overturned sailboat. The woman's husband stood petrified on the beach.

"From this point on everything is kinda fuzzy. I jumped into the water and swam out to the boat. I learned later that it was about 150 yards offshore.

"Somehow I managed to get the boat righted and momma and her daughter back aboard. The wind had died almost completely so I grabbed a rope on the front of the boat and started towing it back toward the shore. As one hand would get tired I'd switch to the other hand with the rope. I was tired and winded but was so busy I don't think I realized it until I got back on the beach," Craig said.

"Right before I got to the dock I pushed the boat past me and gave it a shove," he said. "I was pooped."

Industrial base of our country are also available in the Air Force with many added advantages. The sense of serving your country, being a part of a worldwide fellowship, unlimited opportunity for self-improvements and career growth, opportunity for visiting and living in many different places and adequate compensation for services rendered are a few. But the career is demanding and requires a continual application of your efforts. Those individuals that select the Air Force and become professional in their efforts can be assured of a very rewarding career."



Colonel Chappas, standing fourth from left, poses along with other members of the bomber crew during World War II.

In 1963 Colonel Chappas received his first assignment with the Center, an assignment that was to result in a long and lasting association with the Center and its units.

After serving as chief of the operations division at ACIC Detachment 1 in Washington he moved to the 7650th AC&I Squadron Kastel AS, Germany, as commander. There he served until 1968 when he came to St. Louis as assistant to chief and later as chief of the programs and resources division. His Center career continued to move upward when he

became the Director of Operations then Vice Commander of ACIC.

What have been your impressions of this organization and its upward movement within DoD?

"I've been an operational user of Aerospace Center products--as a USAF staff officer responsible for many AC programs, staff officer and commander of subordinate AC organizations, and finally, staff officer and Director of the Aerospace Center; so I am most keenly aware of the changing role of DMAAC. There has always been

Continued Pg. 3

Outstanding EM Honored



SSgt. Robert Stiefel receives congratulations and a \$50 U.S. Savings Bond from DMAAC Deputy Director, Col. Donald Hawkins, during ceremonies announcing Stiefel as the Bi-Annual Outstanding Enlisted Man for the St. Louis Air Force Station. SSgt. Stiefel is assigned to Operating Location "P" of the 1814 Communications Squadron.

VA Explains 'Release From Liability'

The Veterans Administration (VA) warns veterans and servicemen who sell homes purchased with GI loans to make certain they obtain a "release from liability" if the purchaser assumes their loans.

"Otherwise the seller, (the veteran), could be held financially liable should the purchaser default on mortgage payments," VA spokesmen explained.

The VA granted 9,270 releases last fiscal year, about the same number as the year before.

VA will grant a release provided the veteran's loan is current, the purchaser agrees to assume the veteran's liabilities, and the

prospective purchaser is a good credit risk with sufficient income to meet GI loan mortgage payments.

A release from liability does not automatically restore the GI loan entitlement the veteran used to purchase the home sold. Restoration can be made only for what the VA describes as "compelling reasons" for disposing of the property — provided the GI loan has been paid in full.

Where purchasers agree to assume loans, officials urged veterans to apply promptly for a release from VA officers which guaranteed their loans.

Bits And Pieces

From the Black book:

I've put newspapers together in some rather strange places, but this is the first one I can remember being written, edited, layed out and photographed at a convention. The entire week that normally would be press week with the Orientor was also the ACSM/ASP week so the Orientor office moved to the convention. It's been fun writing stories in the convention press room while the hustle and bustle of the convention proceedings go on around you. For that reason some of our sentences may not make too much sense. The press coverage of the convention has been excellent as KSD-TV, KTVI, KPLR-TV, KMOX radio and the Post-Dispatch have all had reporters covering various segments of the convention. I had the opportunity to sit in on several of the sessions and was impressed with the great wealth of knowledge that was available to the attendees. As you read this, things will have settled down a bit as we return to the Center and prepare for the change of command and retirement ceremonies coming up Thursday.

-0-

Speaking of the retirement ceremonies, we hope as many as possible plan to attend the Thursday afternoon event. The usual pageantry of such a military event will be evident as Colonel Chappas steps down and Colonel Hawkins assumes command. To Colonel Chappas and his wife, Evelyn, we extend our best wishes for an enjoyable retirement with the best of health and happiness. As our story on page one indicates, the Director has had many years

Restaurant Operations Outlined

by N. W. Henley, Base Restaurant Officer

In an effort to inform the employees of DMAAC about the operation of the Base Restaurant, the Restaurant Council is beginning a series of articles in the Orientor. Keeping employees informed is of major concern to the Council since the lack of correct information leads to misconceptions and rumors about the restaurant operation.

In the near future a complete renovation of the snack bar is planned, in fact, bids were due at presstime. It is hoped the contract can be let for completion of the snack bar in March or April 1974. The basic renovations call for removal of stand-up tables which is anticipated to bring some employee complaints. This decision was made based on the need to improve the service work area and sanitation. It is estimated the renovation will require closing of the snackbar for approximately one week. Advanced notice of the closing will be provided employees.

Another area of operation receiving comments recently is the pricing. Those of us who do family grocery shopping are all too aware of the astronomic rise in the price of foodstuffs. The cost of food purchased by our concessionaire has also risen at the same or higher rate and obviously such costs must be passed on to the consumer. As an example: from May thru December 1973 a few increases in cost of the items to concessionaire were:

Beef Bottom Round went from \$.98 a lb. to \$1.59

Baked Ham went from \$1.10 a lb. to \$1.79

Fryers went from under \$.49 a lb. to \$.87

Fish went from \$.61 a lb. to \$.89
Cold Cuts went from \$.79 a lb. to \$1.15

Dairy products have increased from 10% to 80% in price

Paper products have increased from 25% to 75% in price

Plastic products have increased from 15% to 40%

Bakery products have increased from 25% to 70%

A sampling of 110 food items cost figures from November 1972 thru November 73 showed an average 33% increase.

The Base Restaurant Council (BRC) is responsible for establishing food prices but due to the weekly wholesale food and supply price fluctuation, the BRC system employed for establishing price increases was revised to preclude unnecessary delay in warranted price increases. As a result of greatly increased food costs, the concessionaire was forced to stop serving some foods, cut down on employees and seek less expensive foods. This brought about numerous complaints as to the quality of foods served, services, etc.

Hopefully, the new procedure developed for granting food price increases will improve the quality of food and service in the near future, however, consumers are cautioned that price fluctuations can be anticipated.

Employees are encouraged to voice their comments concerning the operation of the dining hall by calling the **HOT LINE, 865-5467.**

By calling the Hot Line, this assures action by the entire Base Restaurant Council.

Attention Golfers

The DMAAC Charter golfers will get under way for 1974 at Triple Lakes Golf Club, April 16. Everyone is invited to join. Tee off time starts at 12:00 noon. Handicaps will be necessary for placement in flights. For those of you who have not played with us before, two validated score cards from any 18-hole regulation course are required. In this regard, the

April 16 outing may be used as the second.

Membership is \$7.50. The schedule is listed below. Since some may not make all the outings, the best 4 out of 5 outing system will be used to determine First and Second half Flight Winners. Two specials are programmed, both at Triple Lakes—a buffet followed by prizes and awards.

| | |
|------------------------|--------|
| Triple Lakes | 16 Apr |
| Columbia | 30 Apr |
| Forest Park | 14 May |
| Grand Marais | 28 May |
| Crystal Lake | 11 Jun |
| Special - Triple Lakes | 25 Jun |
| Columbia | 9 Jul |
| Paradise Valley | 23 Jul |
| Crystal Lake | 6 Aug |
| Tamarack | 20 Aug |
| Grand Marais | 3 Sep |
| Special-Triple Lakes | 17 Sep |

Membership applications are available through your Golf Committee (check Golf Posters on Bulletin Boards for other representatives):

| | | |
|--------------------|------------------|------|
| President | Bernie Nelson | 8251 |
| Vice-President | Jim Hartzell | 8407 |
| Secretary | Chas. Lambert | 8495 |
| Treasurer | Hal Freeman | 8192 |
| Board of Governors | Al Litwa | 8397 |
| | Herb Levack | 8394 |
| | Tony Birkenmeier | 4402 |
| | Ernie Brock | 8367 |
| | Bob Wolff | 8223 |

We expect to have a fine year of golf, so why not join us in the fun.

the Director has had many years of association with this Center and has come to be well known and respected by members of DMAAC. As for me, I have known the Colonel since his return from the squadron in Germany and have found him not only an excellent boss but a good friend. Best of luck Walt.

dib..



ARIES

MARCH 21-APRIL 20

The Aries' competitive nature and urge to excel in everything makes you a money earner, but you tend to dissipate earnings in the luxuries you love. Put your ability for decisive action to work now to save for big luxuries in your future—by joining the Payroll Savings Plan for U.S. Savings Bonds.

New Words & E/P

by William Hogan

Many times words and phrases come into common usage over a short period of time. "Right on" and "psychedelic" are recent examples; an even more current example is the usage of "streaking" and "streaker" to mean something other than a flash of light. Because of frequent usage, people become familiar with the words that are being bandied about but may not really understand the full meaning of them.

Some time ago E/P was a mysterious set of initials to most DMAACers. Today E/P is more familiar to us as the symbol for the Effectiveness/Productivity program, yet we may not really understand what is behind E/P. Phase II of the E/P display (in Building 36) and Phase I (in Section 4 of Building 89004) are meant to explain E/P and the role that most employees can have in the program. All personnel are encouraged to thoroughly view the display.

The week of the 25th of March the display will be expanded to include individual displays from each of the production departments located in St. Louis, and exhibits from the Cartographic Technical Squadron in California and the Geodetic Survey Squadron

in Wyoming. This particular part of the display promises to be very interesting and should provide something for everyone in that it brings together instances of past and planned changes for productivity improvement. At least one of these improvements or changes will surely be personally familiar to every display viewer who has been a member of DMAAC for even a short period of time. Even viewers who were not instrumental in planning the changes have had a piece of the action in helping to accomplish a smooth transition from an old system to a newer, more effective method. In truth, it does take everyone — planning, staff, production — "Working Better Together" to make E/P do its job.

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. Walter J. Chappas

Director

David L. Black

Chief, Office of Information
Editor

Chappas--Retirement

continued from Pg. 1

the thread of "can do" attitude, but as the Center moved upward in the DoD, more tools and avenues became available. This accelerated the achievement of our objectives. As long as we continue to maintain our outstanding rapport with the operational users and the military departments we can hope to continue to reap the benefits and apply the profits to meeting the MC&G requirements of the DoD Military force."

He was tabbed as part of the DMA start-up staff when the President announced the creation of the new agency. Working with other Center executives he helped to formulate the basic plans and programs of the Defense Mapping Agency. When ACIC became DMAAC he returned to St. Louis as the Deputy Director for one month before taking over the Director's position in August 1972.

Because of his long association with the MC&G field the Orientor asked about the scientific and technological revolutions that this country has undergone in recent years and his views on the future of MC&G and the professionals associated with it?

"Revolution is almost an understatement of the events. But the key to this revolution is people. When I think of them, the future of MC&G is indeed bright. During the late fifties and early sixties—due to the leadership of a few key

people—Alan Eldridge, Col. Bob Herndon and Tom Finnie, the MC&G activities in the Air Force took a dramatic turn of events. We moved into an era of professionalism. This resulted in a dramatic increase in the numbers of highly skilled and educated personnel. Today's depth in quality and quantity of true scientists assures that new and innovative MC&G products and services will continue to be developed to meet present and future stated requirements of the military forces. Policies and programs being developed in the DMA will assure that this capability will not be dissipated, but will be enhanced."

What about retirement? Will it be a change in life style? What are your thoughts as you approach April 1st?

"I do not look to retirement as a change in life style. My military career has always placed me in a position of looking toward another 'big adventure'. So in retirement our family is again looking toward another 'big adventure'. However, one change is quite evident, we will choose that adventure, so my thoughts and interests are deeply involved with that process. I have enjoyed every assignment in these past 31 years and our family has enjoyed every station. We have a strong affinity for the St. Louis area, but are always ready for an adventure no matter where it takes us."

Smith To Judge Science Fair

Thomas W. Smith, MDM, was recently selected by the Chief of Research and Development, U.S. Army to represent the Army R&D Community at the Greater Saint Louis Science Fair sponsored annually by the St. Louis

As Lt. Col. Smith, Tom will serve as the senior Army R&D representative in judging the high school level exhibits that have an application of interest to the Army.

March 29 Vietnam Vets Day

President Nixon, in a special proclamation, has named March 29th as Vietnam Veterans Day in the United States.

In the proclamation the President said, "As America enters its second year of peace after a decade of conflict, it is highly appropriate for us to acknowledge the debt we owe to those veterans who served in the Armed Forces during the conflict in Southeast Asia. The untiring devotion that characterized our Armed Forces during this trying conflict is a tribute to the national character."

FIO-Alaska Gets New CO



Major Rondall E. Skinner will assume command of the DMAAC Flight Information Office-Alaska the first of April as he succeeds the retiring Lt. Col. Kenneth D. Stahl.

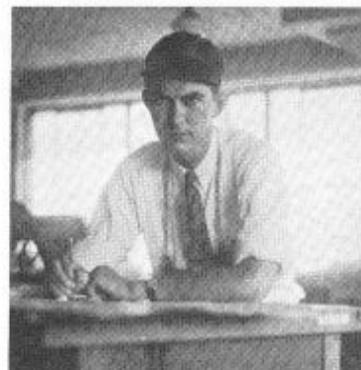
The 12 year veteran received his commission through the ROTC program at Bradley University.

Moon Mapping Only A Small Part of 40 Years

by David L. Black

"I started as a messenger boy for the Washington Navy Yard when I was 19," said Robert Carder, in reply to an Orientor question about his 40 years of Federal service.

From a messenger boy, Carder has come a long way to his present position as a staff cartographer in the Programs, Production and Operations Directorate.



Carder as a draftsman in 1936.

What turns a 19 year old toward cartography?

"I had a little flair for drafting and a drafting engineering friend encouraged me to attend night school and study topographic drafting," replied Carder.

He did just that and in 1935 began work with the infant Soil Conservation Service as a drafter. In 1936 he transferred from the Washington, D.C. office to a regional office in South Carolina where he remained until 1942.

Carder started his association with the Chart Center in July 1942 when he joined ACS (Center's forerunner) in a cartographic position. He moved to St. Louis in 1943 as Chief of the Cartographic Section, Production Branch. His rise within the organization continued as he became assistant Chief of the Cartography Division, Chief of the Programs Branch in Operations, head of the NASA Project Office and now his present position within PP.

Although he was greatly involved in the pioneering of lunar charting and the management of the NASA cartographic requirements for various space missions, the aeronautical charting of World War II he considers his most important contribution.

That was the time when the nation had its back to the wall and the fledgling Air Corps was asked to fly more and more and farther and farther. When they could they used ground charts and pages from atlases for flying but many areas of the world weren't even charted. The need for aeronautical charts was recognized and the small 200 man work force of the Chart Center given the Herculean task of providing the necessary charts in a greatly compressed time frame.



sored annually by the St. Louis Post-Dispatch. This year's Fair will be held at the Washington University Field House in Clayton, Mo. from April 17th thru 27th.

Smith, a member of the U.S. Army Reserve, is a Mobilization Designee of the U.S. Army Materiel Command assigned as Special Assistant (R&D Coordinator-Logistics) to the Director, Research Development and Engineering, U.S. Army Armament Command, Rock Island, Illinois.

The Education Committee of the American Society of Photogrammetry (St. Louis Region) has announced that two awards will be presented at the Greater St. Louis Science Fair to high school students exhibiting science projects relating to the field of Photogrammetry. First Prize will be a \$50 U.S. Savings Bond, with the Second Prize being a \$25 Bond.

ACSM will offer similar awards.

New Interest Rates On Arsenal CDs

At the March regular monthly meeting, the board of directors of the Arsenal Credit Union approved another increase in the interest rate for certificates of deposit. The new rates are as follows:

| Minimum | Term | Old Rate | New Rate |
|-----------|---------|----------|----------|
| \$2000.00 | 1 year | 5 3/4% | 6% |
| 3000.00 | 2 years | 6% | 6 1/2% |
| 5000.00 | 2 years | 6 1/2% | 7% |

Note the term on \$5000.00 has been reduced from 3 to 2 years.

The minimum amount may be increased in increments of \$1,000 for each of the above certificates. Interest is payable semi-annually from the date of issuance. The interest rate is guaranteed for the term of the certificate and will not fluctuate as normal share dividends may.

Awards Night April 5th

Program at Bradley University. He is a native of Washington, Ill. The major comes to his new assignment from duty at the Armed Forces Staff College, Norfolk, Va.

He is married and has one son.

Promotions

Promotions for the month of February are as follows: Clemmie Brown, (GS-7); Robert P. Brueckmann (GS-7); Johanna Captiva (GS-7); Robert D. Craig (GS-7); Patricia J. Culiberk (GS-4); Judith P. Davenport (GS-7); Robert F. Day (WP-22); Lester Dean (GS-7); Anna Dotson (GS-7); Eleanor L. Dutton (GS-7); Sue E. Fidler (GS-12); Betty J. Forniss (GS-5); Helen C. Hicks (GS-4); Robert D. Hodge (GS-11); Steven R. Kammeyer (GS-7); Barbara A. Kastner (GS-3); Geraldine M. Knittel (GS-3); Christine S. Kurtz (GS-5); Billie L. Lambert (GS-11); Richard A. Lesage (GS-7); Richard V. Macy (GS-7); Joseph F. Mataske (GS-7); Masao Roy Matsumoto (GS-7); John H. Mays (GS-7); Douglas W. Prosser (GS-7); Wilbert A. Reeb, Jr. (WP-22); Robert W. Robinson (GS-11); Thomas J. Ryan, Jr. (GS-7); Norma I. Shickman (GS-8); Richard A. Strickland (GS-7); Joy J. Strothman (GS-5); William W. Sugg, Jr. (GS-7); Eugene A. Swinnerton (GS-7); Ronald W. Tharp (GS-7); Royal C. Webster (GS-7); Josephine E. Williams (WP-7).

"We had a mission to accomplish and a basically untrained work force to do it with, since most of the trained people had been called-up," related Carder. "We trained housewives, the handicapped, etc., to do the work. We charted the Philippines and other places. The accomplishment was rewarding and the task exciting."

As he likes to phrase it, "Those were the days when we were placing the building stones for what is now DMAAC."

Carder was later to be instrumental in the development and formulation of several new charting processes and products including the recommendation for printing the large format ONC currently in use. For this he layed out the sheet lines and numbers.

In the lunar program he was instrumental in setting-up the Lowell Observatory cartographic unit and supervising the production of the first map of the moon exhibited to the world in 1960. The lunar program went from an extra duty assignment, while he was part of Operations, to the full time support of the NASA



Robert Carder

program encompassing the moon, Mars and mans travel through the universe.

It is because of this involvement and knowledge of lunar charting that the selenographer was asked by his friend, Zalenek Kopal of the University of Manchester, England, to co-author a book on The Mapping of the Moon. The aim of the book, which is due out in June, is two-fold: it will provide an extensive account of the mapping of the moon from the early part of the 17th century up to the present time and then give an up-to-date account of the state of this art through the Apollo era. Carder's portion deals with mapping from the 1960s on.

From the time Carder first stepped into that drafting classroom 40 years ago he has seen many changes in mapping. What's more, he has been involved in those changes; has seen the birth of the aeronautical chart; has felt the growing pains of an organization and has helped the first man set foot on the moon.

ION Meet

The Institute of Navigation, St. Louis Section, will hold a meeting at the U.S Coast Guard, Officer's Club March 28.

This will be a general business meeting to introduce the members nominated for election and to

accept nominations from the floor. Price for the dinner meeting is \$4.75.

More information can be obtained from Orville Kloeckener at ext. 8193.

1974 Convention Scenes



General Penney, DMA Director, looks over DMA exhibit at the convention.



Questions and answers were an important part of the convention.

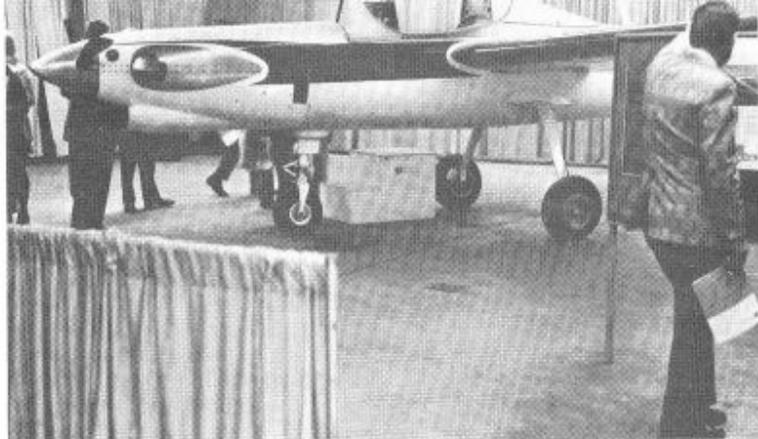


Number 2500 quietly fills out his registration form.



Keynote, Dr. Colwell, talks with Reed Farrell on the KPLR-TV "Morning Affair" presented live from the convention hotel lobby.





An airplane at the convention?



Convention Director Nick Michalas addresses the opening session.



The ladies found things of interest during the convention.



Our cameras found small discussion groups everywhere.



DMAACers plan next session attendance.



Exhibitors explain their equipment to prospective buyers.



Missouri, St. Louis County and St. Louis City Proclamations proclaim convention week.

Convention photos by Earl Reed. Some courtesy of ACSM/ASP convention photographers.