

Savalick Named Center Women's Program Coordinator

Barbara Savalick, AC, has been selected as the new Federal Women's Program Coordinator, according to an announcement made by Center Director, Col. James St. Clair.

Ms. Savalick has been with the Center since 1955 and has worked in the old Photogrammetry Division, Research Department, and currently in the Aerospace Cartography Department as a cartographic technician.

"As FWPC I hope to develop a plan which will motivate all Aerospace Center women," she said. "Participation in programs designed to help women develop to their greatest potential is paramount to us as individuals and to the Center as an agency."

"Many of us feel 'I can't do that job' without investigating the qualifications required. We must realize that we are a valuable resource to our agency, our community, and our families. When we have developed confidence in ourselves as capable, responsible persons, we will have won the confidence and respect of all our associates," said the new coordinator.

Ms. Savalick is a member of the Missouri ERA Coalition, manager of the coalition's speakers bureau, charter member of the Aerospace



Center Toastmasters, charter member of the Arsenal 76 FEW chapter and first vice president, and a member of the St. Louis Abused Women Support Project.

Assisting her with her duties as Federal Women's Program Coordinator will be an FWP Council. This council and alternates will be composed of: Gretchen Hawk, GDDB; Loretta Mason, CMDA; Betty Qualls, SDDS; James Sippel, SDDS; Marilyn Simpson, GDGG; Josephine Williams, ACCB; Judy Bebbmeyer, ACIT; Anna B. Estes, SDRD; and Marian Kinsella, LOPA. The latter three are alternates to the council.

Policeman of Year

Wilbert Shaffer has been named Aerospace Center Security Policeman of the Year, according to Maj. M. L. Brown, Jr., chief of the Security Office.

"Shaffer has consistently displayed the ability to blend courtesy with professionalism in



Orienteer

DEFENSE MAPPING AGENCY AEROSPACE CENTER

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Aerospace Center Responds

Coal Shortage Impacts St. Louis; Electric Utility Asks for Conservation

Effects of the strike on the national coal industry are being felt in the St. Louis area as the major electric utility, Union Electric, requested all its customers to make voluntary reductions in electrical energy consumption. The request, made at the end of last month, spurred city, state, and Federal officials into taking additional energy savings actions within their areas of concern.

In the St. Louis area, the Federal Executive Board has asked all Federal agencies to investigate and act upon energy conservation ideas. The Aerospace Center has already initiated several air conditioning system operating changes which reduced electrical consumption by approximately 5,904 kilowatts per day, according to officials of the

Facilities Engineering Directorate. The kilowatts represent a 10.6 percent reduction in average daily electrical power use.

In addition to the operating actions being taken, Facilities Engineers have indicated significant additional reductions in electrical energy consumption can be gained through individual participation and cooperation in the conservation program. Employees are encouraged to actively support the voluntary energy reduction by all unnecessary or idle equipment, appliances, instruments, systems, etc., are turned off when not in use. This would include overhead and desk top lighting, light tables, typewriters, coffee pots, office machines, and a variety of other electrical items.

Bomb Threat Forces 2nd St. Evacuation

A bomb threat, called into St. Louis City Police February 23, caused the evacuation of all employees from buildings at the Aerospace Center's 2nd Street

Dr. Helmering Receives Top ASP Paper Award

The Talbert Abrams Award for authorship and recording of current and historical engineering and scientific developments in photogrammetry was presented to Dr. Raymond Helmering of the



displaying the ability to blend courtesy with professionalism in the performance of his duties," reports Chief Ed Kendrick of the Security Police. "He is becoming increasingly well known throughout the Center and his performance for the past 12-month period has earned him the honor of Security Policeman of the Year."

Shaffer served in the Army from January 1942 to October 1945 and has been with the Aerospace Center since May 1967.

Snow Blow Operation Receives Center Chart Support



A C-5 Galaxy leaves behind snow removal equipment while a C-130 Hercules waits to begin another mission during Operation Snow Blow II. Aerospace Center Flight Information Publications, airfield data and planning charts assisted the Military Airlift Command, Air National Guard and Air Force Reserve aircrews in flying 127 missions, carrying more than 1,100 passengers and 2,504 tons of equipment into Massachusetts, Rhode Island and Connecticut.

Aerospace Center's 2nd Street installation.

Because of the nature of the caller's information, the decision was made to exercise the Emergency Evacuation Plan. Employees were asked to search their areas for any suspicious parcels and after doing so to depart the buildings by 10:30 a.m. The evacuation was orderly with all buildings completely empty by the assigned time. Special search teams, composed of Center security personnel and city police officers, then continued the search, evacuating the building just prior to the time indicated by the caller for detonation.

No bombs were found, and after the time had passed for detonation, the building was again searched. Employees were allowed to re-enter the buildings at 12 noon.

Dr. Raymond Helmering of the Aerospace Center during the national ASP/ACSM convention in Washington D. C. this past week.

The award, along with a large trophy and \$1000, was presented as the result of Dr. Helmering's paper on "A General Sequential Algorithm for Photogrammetric On-line Processing" being selected as the paper of the year by the national American Society of Photogrammetry.

The paper discusses the use of minicomputers in a variety of photogrammetric equipments for on-line processes and presents processing scheme and general algorithm for sequential processing of data from computer-assisted photogrammetric systems.

The Abrams Award, now in its fifth year, was instituted in 1945 by



Dr. Abrams to encourage the authorship and recording of current, historical, engineering and scientific developments in photogrammetry by members of the ASP.

The award consists of one year's possession of a Grand Trophy, \$1000 cash, and a replica trophy for permanent possession, which is presented one year after receiving the award.

Dr. Helmering's paper was recommended by the St. Louis ASP Region.

St. Louis, Grand Canyon History Top ASP Bill

If you're interested in the 1904 St. Louis World's Fair or vintage film footage of the Grand Canyon in 1923, then the place for you is the March 14th meeting of the American Society of Photogrammetry. The "Historical Night" will be held in the Aerospace Center Dining Hall beginning with a hospitality hour at 3:30 p.m. and program at 4:30.

The first segment of the program will deal with local history. Mrs. E. Julian Birk, noted St. Louis speaker, will give a slide presentation and narration on the 1904 St. Louis World's Fair. She

will use slides taken by her father, which are original 3-1/4 inch glass slides requiring an old-time projector retrofitted with an electric light source.

The second historical segment is one of mapping community significance. A 24 minute film will be shown of the 1923 USGS Survey expedition through the Grand Canyon of the Colorado which was led by Col. Claude Birdseye (ASP founder). The film took over two years and thousands of manhours to produce this unique record of a significant milestone in the USGS. Original footage taken by E. C.

LaRue and a narrative by Leigh Lint, one of the four boatmen on the expedition, is combined with recent footage taken by the Northern California ASP Region.

Tickets are priced at \$2.50 per person and cover the cost of refreshments (food/snacks). Tickets are available from: Jerry Becker, 4231; Robert Edwards, 4801; Paul Goss, 4043; Robert Haddad, 4673; Beverly Barch, 8278; Robert Meinhardt, 4781; Ray Meyer, 4701; and Neil VanDermeulen, 4372.

Tickets may also be purchased at the door.

Major Recruitment Effort Termed Successful For Center Cartographer Hire

What do you do when you're faced with a major recruitment effort in a short period of time?

When the Aerospace Center found itself in that position last November, it looked to its Personnel Office to develop and implement a plan of action.

The basic requirement was to hire some 250 cartographers over a span of nine months to a year. The new hire authorization was the result of increased emphasis being placed on the cruise missile and therefore increased digital program requirements of the Aerospace Center. The 250 figure had to be adjusted to approximately 330 in order to compensate for normal cartographer attrition in St. Louis and the Kansas City Office.

The recruitment program developed by Personnel included as its first step obtaining "direct hire" authority from the Civil Service Commission in order to reduce the time lag of normal hiring. Immediately, ap-

proximately 175 colleges and universities across the nation were contacted to determine student interest in professional cartographic career opportunities, and the availability of the students to visits by special recruitment teams. These special teams were selected to recruit students who expressed interest from colleges and universities in Missouri, Oklahoma, Texas, Ohio, Louisiana, Arkansas, Alabama, Iowa, Tennessee, Kentucky, Virginia, Georgia, Florida, New Mexico, South Dakota, Illinois, Kansas, and Mississippi. The first campus recruitment trips by Aerospace Center teams were made at Middle Tennessee State and Ohio State University.

To date, 49 schools have been visited by the recruitment teams. While on campus, Aerospace Center personnel not only have met with interested members of the student body but have addressed professional and social organizations associated with the disciplines of interest to the Center. They have met with the department heads and members of the faculties of the various schools of engineering, math, computer science, geography, etc., in an effort to promote interest in cartographic employment with the Center for future classes.

Because of the short time frame

and immediate need for new hires, the recruiters were forced to work around the December exam schedules and the holidays. Bad weather also presented problems as recruitment teams slushed through snow to meet with various student groups on the campus or to "run down" prospective applicants between exams.

To take full advantage of the local recruitment possibilities, special advertisements were placed in the major daily newspapers of St. Louis. These ads reached many area youth home for the holidays and resulted in several hundred calls to special recruitment phones located in the Personnel Office. Special ads were also placed in local minority papers in an effort to provide maximum exposure for the Center hiring.

Competing with industry in the job market, the Aerospace Center recruiters found that they not only had to sell cartography and the Aerospace Center but the benefits of Federal employment as well.

To date, the recruitment effort has been most successful as 155 new employees have been brought on board. At press time, commitments had been made to approximately 25 with several actions nearing completion.

The recruitment has been challenging but it isn't finished yet. New cartographic training classes are starting every two weeks and new employees are being sought to fill each class programmed into July. Personnel is already formulating new schedules for recruiters to talk with potential

'Blue Book' Now TV Series

"Project Blue Book," the Air Force investigation of unidentified flying objects (1947-69), is being made into a one-hour television series to start Feb. 19th.

"Project UFO" will be shown at 8 p.m. (Eastern time) Sunday nights on NBC stations. The series will feature two fictional Air Force personnel as UFO investigators.

Jack Webb, executive producer of the series, bought copies of "Project Blue Book" files from the National Archives to use in making the series.

The Air Force ended its study in 1969 primarily because none of the UFOs reported, investigated and evaluated indicated any threat to national security.

Since then, anyone reporting a UFO to the Air Force is being instructed to contact law enforcement officials if the individual feels his or her safety is threatened.

There are also a number of private organizations which study UFO phenomena and welcome sighting reports.

BAG Highlights 1977

Highlights of 1977 was the theme for the Black Awareness Group (BAG) meeting during February.

President Louis Foster commented on the increased membership for 1977 which marked the largest number of members in the five-year history of the

organization. Increased membership for the new year was set as one of the organization's goals.

Shown below are the new BAG officers: (left to right) Lonzell Williams, secretary/treasurer; Robert Franklin, vice president; and Louis Foster, president.

Bits And Pieces

From the Black book:

The bomb threat recently at the Center was no laughing matter, in fact, it was rather a sad commentary on an individual's thinking, but from bad there always seems to be some lighter

In Sympathy

Virginia L. Bathe, wife of John Bathe, chief of the Geopositional Department, died February 15. Delectable sessions were held on the



always seems to be some lighter side and we found it on February 23rd. What do you do when you suddenly have time off from work; all the buildings are closed on the installation; and the temperature outside prevents standing around? We asked some people in a random sampling the afternoon of the 23rd as things began to settle down in the work areas. You'd be surprised at the answers. Most people just started their lunch period earlier at nearby restaurants. Some went shopping in the neighborhood stores. One individual went downtown to the music store to browse over the sheet music. One person said he had never been to the Arch Museum since he lived in St. Louis and decided the time presented the opportunity. Some who lived in the adjacent neighborhood simply went home. One woman went to visit a sick friend at the hospital. Someone else took the opportunity to pick up tax forms from IRS. And perhaps the topper of all was the person who took a tour of the brewery.

—0—

Now that March is here and the weatherman is predicting the arrival of Spring we can turn our thoughts to outdoor activities. My thoughts were of tennis, fishing, camping, all the good things. I find my wife has been thinking of lawn work, gardening, and house painting. Oh, well, maybe next year.

dlb . . .

Department, died February 15. Private services were held on the 18th with interment in Lakewood Park Cemetery.

She is survived by her husband and six children.

Harold J. Rangle, a former Center employee, died February 15. He was a multilith operator in the Printing Division when he retired in 1972.

He is survived by his wife, Lucille, and two daughters.

Services were held on February 18th with interment in Our Lady of Miraculous Medal Cemetery.

Word has been received of the death of former employee Gilbert H. Fargen. He and his wife had moved to Phoenix, Ariz. shortly after his retirement in 1974. While employed, he had been assigned to the Directorate of Programs Production and Operations.

He is survived by his wife, Mildred, who has returned to St. Louis.

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Col. James H. St. Clair
Director

David L. Black
Chief, Public Affairs Office
Editor

recruiters to talk with potential May graduates so there will be no lag in the hiring effort.

TAXPAYER Q and A

Q: I understand that if I moved in 1977, the move doesn't have to be as far as previously required in order to claim my moving expenses. Is that true?

A: Yes. The old distance requirement of 50 miles has been reduced to 35 miles.

Q: Haven't some of the maximum allowance limits been changed, too?

A: Yes. You may claim up to \$3,000 for expenses involved in buying, selling, or renting a principal residence, of which no more than \$1,500 may be used for pre-move househunting and temporary living expenses. The old limits were \$2,500 and \$1,000 respectively.

Q: I pay alimony to my former spouse, but I don't have enough deductions to itemize. Can I still claim the alimony on my return?

A: Yes. Beginning in 1977, alimony will be an adjustment to income, similar to moving expenses. This means that you need not itemize deductions to claim alimony payments.

Car Rental Discounts Offered DOD Travelers

Military Traffic Management Command (MTMC) and six car rental agencies have announced an agreement to give Department of Defense travelers discounts and rate reductions.

The discount and special rate agreements run from 10 per cent to 40 per cent, depending on the company. Charges will vary from city to city and are subject to change without notice.

Companies entering into the

agreement are: Avis, Dollar, Econo-Car, Hertz, National and Thrifty. Car-per-day rates vary by size from subcompact to full size and from company to company. The discounts apply to any DOD traveler except for Thrifty which offers special rates for official travel only.

MTMC officials said individuals should contact companies direct to get exact costs in areas travel will be performed.



CROSSWORD 4

Named to Who's Who

Vincent Brencick, Jr., son of Helen Brencick, GDGGS, has been elected to Who's Who among students in American Universities and Colleges.

He will graduate in May from the University of Missouri School of Veterinary Medicine. He will specialize in equine medicine and practice in the New Orleans area.

Give A Little Blood Today
To Help Another Along the Way

For Eight 30 Comes Quickly

SINGLETON HARRIS, PDLA, reached the 30 year mark on January 9. He was inducted into the Air Force Signal Corps in December 1942. He was assigned as a draftsman, photographer and switchboard operator with CO 449, Signal Corps Company B, in the European Theater of Operations. He received his discharge in December 1945.



Harris

After attending Yale University Special School of Professional Photography he returned to Federal service at the Post Office. He worked there for about six months before coming to the Center in January 1951. He was assigned to the Printing Division as a warehouseman and fork lift operator.

After some time he decided to get into his field of schooling and did photography work in the evening and on weekends. In 1969 he became a photographer in Graphic Design of Cartography Department and since 1974 has been assigned to Photo Services as a photographer (map & chart).

Harris adds that he has been a professional honorary master photographer for about 30 years now, with several awards, having lectured and trained a number of people in the field. He is presently teaching a course in photography at a girls high school on a part time

January 24. He entered the Army Air Corps in February 1943 and was commissioned in May 1944. After pilot training, he ferried single engine trainers/fighters, mostly in the U.S., until discharged in October 1945.

He returned to Federal service at the Aeronautical Chart Plant at 12th & Delmar on December 6, 1950. He was assigned to the Aeronautical Information Division, as a carto comp aid (nav.) In the late 50's and early 60's he conducted new employee training for the Division. All of his service has been in the Aeronautical Information Department where he is presently assigned as an aero info specialist in the Data Reduction Division.



Wright



Carroll

TERRENCE R. CARROLL, ACPB, reached the 30 year mark on February 2. He was inducted into the Army in January 1943 and served in the European Theater of Operations with the 458th Ordnance Evacuation Company, a tank transport outfit. He received his discharge in November 1945.

Upon completion of graduate school at St. Louis University, he resumed his Federal career in September 1950 at the Aeronautical Chart Plant at 12th & Delmar. He was assigned to the Photogrammetry Division as a carto photo aid. He was reassigned to the Cartography Division in

sferred back to the Cartography Division where he is a cartographer and is serving as the Department Security Officer.

ELZEE OWENS, FEMPA, reached the 30 year mark on February 8. He served in the Army from 1943 to 1945. He served in the Infantry and was assigned to the European, African and Middle Eastern Theaters.

He returned to Federal service in 1948 at Jefferson Barracks Veterans Hospital as a nursing aid.



Radovich

He came to the Center in 1966 and has been assigned to the Operations and Maintenance Division as a custodian.

MELO T. RADOVICH, JR., ACIA, reached the 30 year mark on Valentine's Day. He enlisted in the Marine Corps in 1936 and spent the first 17 months in Pearl Harbor. Then, in August 1937, he went to China as part of the 2nd Marine Expedition joining "D" Company, 1st Battalion, 4th Marine Regiment at Shanghai, China. He returned to the States and was discharged in June 1940.

While working at Convair in San Diego, he worked part time at the Post Office and then in 1944 full time as a sub postal clerk for a few months.

He reenlisted in the Marine Corps in January 1945. He was assigned as a flight deck crewman with All-Marine Corsair Fighter Sqdn. aboard the escort carrier



Reeve



Hoy

He had summer jobs between semesters at the University of Illinois, with the U.S. Forest Service. He received his Master's in Geography in 1954. He joined the Chart Center in July 1954 and was assigned as an editor in the Cartography Department. He was transferred to the Carto School in 1958 and spent 15 years as an instructor in the Plant Carto School and in Military Photomapping School, servicing the Recon Tech Sqdns for Air Training Command. In early 1967 he gave a 12 hour lecture course to Manned Orbiting Lab (MOL) Astronauts at the Aerospace Research Pilot School at Edwards AFB, CA. He returned to the Cartography Department and was recently assigned to DLMS as a cartographer.



Moreiko

DONALD R. REEVE, PPCA, reached the 30 year mark on February 24. He served in the Army from 1945 to 1947 and was assigned to the European Theater. He returned to Federal service at the Aeronautical Chart Plant at 12th & Delmar in October 1949 as a carto aid in the Cartography Division.

He was assigned as a carto aid, cartographer and supervisory cartographer of either Compilation Unit or Production Control Office while serving in the Cartography, Photogrammetry and Missile Support divisions until March 1965. He was assigned as a program manager in the Directorate of Operations and now the Directorate of Programs, Production and Operations since then.

Marine Corps from July 1942 until March 1946. His Marine Corps duties carried him from the East coast of North Carolina across the Pacific to Tiensin, China, and back to Bainbridge, Md. for honorable discharge.

Before entering the University of North Carolina he worked for a few months as a file man and expeditor for the Veterans Administration. He graduated from the University of North Carolina in 1951 with a B.A. in Geography.

He resumed his Federal career in early 1952 at the U.S. Navy Hydrographic Office in Washington, D.C. as a compiler, editor and researcher. He transferred to our Det #1 in Washington on January 31, 1955 and was assigned to the Research Division. He moved to St. Louis with the Division in the summer of 1957 and continued to work in the Research Department until the reorganization in October 1976. He was reassigned to the Aerospace Cartography Department where he is presently assigned as a cartographer.

JOHN J. MOREIKO, ADF, reached the 30 year mark on February 28. He enlisted in the Marine Corps in June 1942 and was commissioned in April 1944. He was a conventional and jet fighter pilot with overseas duty in the Pacific Theater during WW II. He remained in the reserve program until his retirement in 1964.

He returned to Federal Service at the Hydrographic Center in Washington, D.C. and came to the Center in 1953. He was first assigned to the Aeronautical Information Division then the Directorate of Operations, Requirements Division. He returned to the Aeronautical Information Department where he is presently chief, Production Division.

He is past Exalted Ruler of the Belleville Elks Lodge #481 and is presently a trustee of the lodge. He

...basis.
WILLIAM H. WRIGHT, ADDS, the Missile Support Division. reached the 30 year mark on

...October 1957 and in January 1959 to
 USS Salerno Bay, operating in the Atlantic Ocean until discharged in August 1946.

...HAROLD R. HOY, ACAAB, reached the 30 year mark on February 26. He served in the

...presently a trustee of the lodge. He is currently Illinois Elks State Chairman for Veterans Service Program.

The month of March takes its name from Mars, the Roman god of war. It was the first month of the Roman year until the Julian calendar was adopted in 41 B.C. And it continued to be the beginning of the legal year in England and its colonies until the 18th century.

In regard to conflicts, the month has lived up to its name, although every month of the years has been marked by the horrors of war. It was on March 6, 1836, that the Alamo fell,



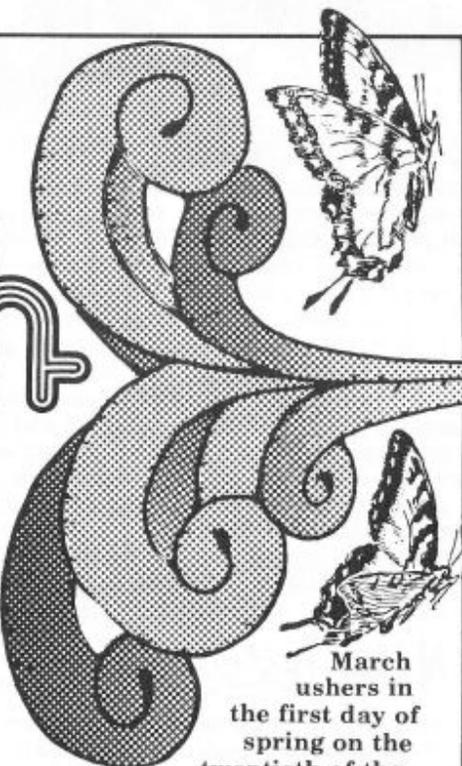
resulting in the deaths of its 180 American defenders and 500 Mexican attackers. A few years later the famous battle between the Monitor and the Merrimac took place on March 9, 1862.

march

By Presidential Proclamation, March is designated Red Cross Month. Noted for its vital contributions in times of war, the Red Cross also provides significant humanitarian services for military members and civilians in peacetime.

Poison Prevention week is observed during the third week of March.

The emphasis is on preventing the accidental poisoning of children.



purchase of Alaska, "the giant icebox," on March 30 of that year.

Easter, the most important Christian holy day, comes early this year



on March 26. St. Patrick's Day, March 17, began as a religious feast day and now includes secular celebrations as well.

March weather is often windy, blowing out winter's cold. The famous New England poet, John Greenleaf Whittier, wrote:

"Up from the sea the wild north wind is blowing
 Under the sky's gray arch.
 Smilingly, I watch the shaken elm boughs knowing
 It is the wind of March."

March ushers in the first day of spring on the twentieth of the month, and with it spring fever and a joyous sort of springtime madness. The most famous act of madness, according to many people living in 1867, was the

Charts Find New Use

Product Efficiency Key to CM Printouts



John Watford of CM, demonstrates the operation of the new Xerox 1200 page printing system now being used to reproduce computer reports in a small, handy to use, format.

If you're one of those who deal with and complain about printout reports that circulate through the Center's administrative channels daily, you'll be glad to learn that things have changed.

The Comptroller's organization has come up with a new format and reproduction procedure that not only makes the reports easier to handle but less costly to produce.

Early last year they began to look at ways to improve the method of producing and distributing high-volume reports. With the assistance of the Air Force Data Systems Design Center, they studied the current volume of reports. After determining that the volume (over 9 million pages a year) required two printers, the CM people then began to look at other options of report preparation available with today's computer and printing technology.

In examining new ways, they looked for methods of saving print time; saving paper; saving storage space; and saving on decollating and collating costs.

The key Center reports that were concerned in the study were the DMIS/P payroll system and some automated personnel information.

After an examination of the state-of-the-art equipment, the Xerox 1200 page printing system was determined to be the unit of study.

The unit consists of a tape drive, mini-computer and xerographic process printer.

Using the new system, the magnetic tapes containing the computer programmed material are placed directly on the tape drive unit of the process printer. The mini-computer reads the information and the process printer reproduces it in a miniature 8½ x 11 inch copy as compared to the old printer 15 x 11 format. The copies are stacked and collated by stack in the process printer.

Under this process, the large format required with the use of the impact printer is eliminated. Decollating (removal of carbons) from the large format is eliminated (all copies are exact duplicates of the magnetic tape program). The smaller format is much easier to distribute in the mail system and much easier to handle and file in the administrative areas.

The new system also prints at the speed of one copy per second or four times faster than the previously used impact (typewriter style) printer.

As if that information isn't enough to make the system economical, we add one more ingredient—type of paper used. Under the previous system, special fan-fold paper was used which had to have sprocket holes on the sides for printer advance; special carbon attached if copies were required; and required \$65,000 a



Map stock salvage paper is used for the page reproductions thus saving the Aerospace Center several thousands of dollars each year.

year in purchase cost.

The new page printing system uses salvage map stock as its paper thus substantially reducing the overall cost of the reports.

"Some fan-fold reports will still be required," said Jim Wissler, project officer for the copier, "but when all the costs for equipment leasing, paper, manhours, etc., are compared to the previous way of putting out the reports we figure to save about \$40,000 a year."

During the past few months, the system has been in a test stage at the Center with complete operational acceptance expected shortly. Already the impact of the new program is visible as the smaller format reports can be seen on desks. They're easily recognizable—they're the reports with the charts on the back.

AGU, AMS Meeting

The combined American Geophysical Union (AGU) and American Meteorological Society (AMS) meeting will be held March 16 at the Officer's Club of Scott Air Force Base.

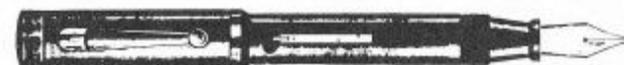
Featured speaker for the meeting will be Stan Chagnon of the Illinois State Water Survey. His topic will be "The Effect and

Impact of St. Louis on the Weather."

Refreshment hour will begin at 6:30 p.m. with dinner and program to follow. Tickets are \$4.50 and are available until March 10 from any of the following AGU members: Inez Dimitrijevic, 4742; Louis Greco, 4919; Dr. Luman Wilcox, 4851; or Carol Greco, 4737.

21 YEAR Hobby Provides FAROUT PICTURE

Twenty-one years ago Oliver Deppong of the Geopositional Department became interested in astronomy. Today, several telescopes and many painstaking hours later, he is the proud



Crossword 4

Courtesy QUALITY CROSSWORD PUZZLES, Copyright 1977, Quins Publishing Co., Inc.

ACROSS

1. Epoch
4. Fish sauce

Stranger

21. Provided
24. German

35. 60, _____, 80-
37. Patriots' Cunningham
38. Mimics
39. Search for food
42. Walking
2. Enthralled
3. Aerial
4. Prevent
5. Girl
6. Curved letter
7. Civil engineer (abbr.)

hours later, he is the proud owner/builder of his own personal 16 inch reflecting backyard telescope.

"Most of my hobby time has been tied up in the making end rather than in the observing end," claims Deppong.

It all started when he began to attend meetings of the St. Louis Astronomical Society to collect ideas on telescope building from its members.

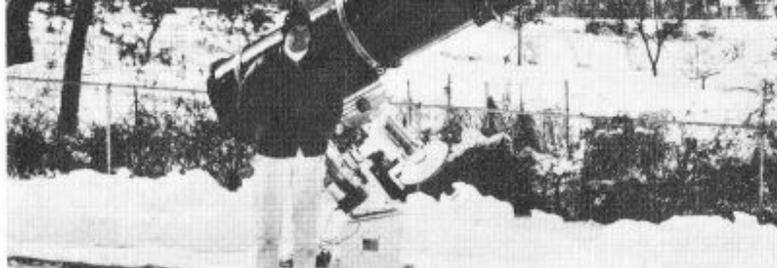
After completing several telescopes over a 13 year period, he decided to tackle just "one more" project.

That "one more" required several hours of machining if the 16 inch model were to be built. Machining is not the most inexpensive item in today's industrial world. To offset the cost, Deppong decided to do it himself. He enrolled in a machine shop course at O'Fallon Technical High School during January of 1971.

He acquired a basic knowledge of machining during the first semester and received special permission to work on his telescope during the next two semesters as an assigned project.

"Those two semester represented 180 hours of machining to complete all the essential parts," he said. "Most of the material used was obtained as scrap from junk yards at a nominal cost."

After the course, all that



remained was fabrication without machining and this he could do at home. What remained did require lots of time though when items like the telescope tube, rotating saddle, mirror cell, spider support, and finder had to be made.

"The design and planning stages usually require more hours than the actual making end of it does," said Deppong. Approximately 500 hours of actual working time over a period of seven years was required for the venture.

The telescope has one unique feature in that it rolls out on an angle iron track aligned with the

North Star. "This feature was added to meet my particular problem of moving away from trees to observe the sky."

Now that it is done, Deppong has been trying his hand at photography; particularly that of the moon. He has found, however, that St. Louis has few clear nights in a year and many street lights offer competition.

He has also been assisting two elementary school classes with their astronomy classes and weekend observing sessions. "But so far, the weather has not been very kind to us," he said.

Nuke Tests; Cancer Link?

Department of Defense is trying to locate active military, civilians, and former soldiers and sailors who participated in nuclear tests and who may run an increased risk of cancer, officials announced last week.

Some health officials believe that test participants may run a higher than normal risk of leukemia or other cancer-related maladies.

DOD is attempting to review individual cases to research the claim.

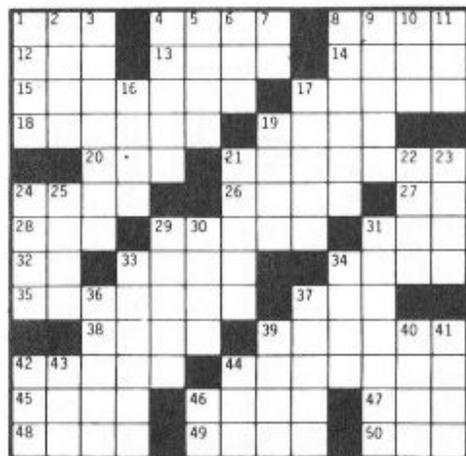
The tests involved 300,000 people, primarily soldiers who participated in tests in Nevada between 1946 and 1963. Other tests primarily involved sailors in the Pacific Ocean.

DOD has installed a toll-free number for participants to call. The number is (800) 638-8300. In its first five days of operation, the number averaged 500 calls daily.

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|------------------------|----------------------------|------------------------|
| 4. Fish sauce | 24. German novelist | 42. Walking sticks |
| 8. Applaud | 26. High cards | 44. Thrower |
| 12. Delivery truck | 27. Southern state (abbr.) | 45. Kiln |
| 13. Urn | 28. _____ mode (2 wds.) | 46. Not fair |
| 14. Make muddy | 29. Tedious types | 47. Auricle |
| 15. Appropriateness | 31. Lair | 48. Finest |
| 17. Fop | 32. Thus | 49. Matures |
| 18. Guides | 33. Lion's cry | 50. Physicians (abbr.) |
| 19. Loaf of corn bread | 34. Unadorned | |
| 20. _____ as a | | |

DOWN

1. Ms. Gabor et al.



8. "Whooping" birds
9. Companionless one
10. Help
11. Plait
12. Type of sign
13. Pampers
14. Step
15. Tote
16. Always
17. Scandinavian one
18. Lump
19. Lily plant
20. Dice (sl.)
21. Dobbin's fare
22. Marred
23. Rue
24. Farm building
25. Weathercocks
26. Dirties
27. Chimney shaft
28. Cog
29. Sins
30. Corn spike
31. Hail!
32. Heavy mist
33. Scale note

Huther's Son Receives High Medal

Bradford Huther, son of Ralph Huther of PDT, recently was awarded the Meritorious Civilian Service medal by the Department of Commerce.

The award winner is the Deputy Assistant Commissioner for Administration, Patent and

Trademark Office of the Department of Commerce.

The award was presented for outstanding performance of duties which resulted in significant advances to administrative support processes of the United States Patent and Trademark Office.