

Group Achievement Award To GEOS-3 Team

Three employees of the Geopositional Department were presented a Group Achievement Award by the National Aeronautics and Space Administration for the information provided by them as members of the Geodynamic Earth Orbiting Satellite-3 (GEOS-3) Team.

The team members, Kenneth L. Brace, Roe R. Davenport and Melvin E. Schultz reduced and analyzed data collected by the NASA

GEOS-3 satellite which provided revolutionary geodetic and geophysical information for two-thirds of the earth's surface.

The citation read, "In recognition of the contribution of the GEOS-3 Team to advancement of our understanding of the nature of the solid earth, the oceans and the earth's gravity field, and for the effective use of space for solving problems on earth."

Personalized Bus Schedule Available

In conjunction with the Aerospace Center's Energy Conservation efforts, forms are now available to employees who would like an individualized bus routing schedule which will show them the quickest and most convenient way to get to and from work by bus.

The Bi-State Development Agency is providing these personalized schedules at no cost. All

an employee need do is fill out a special form and send a self-addressed, stamped envelope to the address listed on the form.

Forms are available at Second Street in Building 36, Section 1B (across from the Snack Bar), beneath the van and car pooling display, and at 8900 S. Broadway in the cafeteria.

Toastmaster Meet March 20th

The Toastmasters Meeting on Mar. 20 will be held in the First Floor Training Room in Bldg. 36, instead of the Lindbergh Room of the Second Street Dining Hall as reported in the Feb. 29 issue of the *Orienteer*. The theme of the meeting

ext. 4010 or 894-0026 so arrangements can be made.

Toastmasters is an oral communication development program whereby participants learn by doing. The concept is that of "enlarged conversation". By learning

Orienteer

DEFENSE MAPPING AGENCY AEROSPACE CENTER

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Sounds Like A Personal Problem To Me

Personal problems. We all have them at some time, and normally they can be resolved without great consequence. But when these problems begin interfering with the ability to perform your job, it is time to seek help. That's where the Aerospace Center's Employee Assistance Program comes in.

The Employee Assistance Program (EAP) is designed to assist employees who have personal problems that could adversely affect their job performance and conduct. Personal problems such as alcoholism, drug abuse, emotional disturbances, marital trouble, bad debts or finance, etc., that may impact your job can be discussed, in confidence, with the Employee Assistance Program Officer, John Wilson, ext. 4292.

If an employee feels he needs help, he can contact the Employee Assistance Program Officer without going through his supervisor. Often times, the supervisor may suggest the Program to the employee. Providing assistance to the employee in resolving the personal problem that is causing unacceptable performance or conduct reduces the management problem at the same time.

A supervisor cannot force an

employee gives to the Employee Assistance Program Officer is confidential. Before the EAP Officer can discuss that information with anyone else (for example, his supervisor, the dispensary, a referral agency, etc.), he must have written permission from the employee requesting counseling, and can only talk to individuals specified by the employee.

At the present time, the EAP offers advice and counsel, through services provided by professional organizations in the local community. New facilities brought to the attention of the EAP Officer will be used for consideration for future use by the Center.

Family members can also contact the Employee Assistance Program



alcohol abuse may prefer to contact a fellow employee who has overcome this problem. If so, he may call ext. 8255, which is a private extension answered only by that employee.

"We feel the Employee Assistance Program is one of the most vital programs in Personnel," said Richard A. Vierling, director of Civilian Personnel, "it has our special attention, the endorsement of all levels of management within DMA, and the support of NFFE Local 1827 and AFGE Local 2786. We all recognize that personal prob-

Orienteer. The theme of the meeting will be "Retirement -- Friend or Foe?", and employees, those contemplating retirement, and retirees are invited.

Anyone interested in attending should contact Kent Kenniston at

larged conversation". By learning to speak effectively to a group, Toastmasters can comfortably handle other communication challenges. This ability builds the individual self-confidence which results in a more flexible employee, and member of society.

A supervisor can encourage an employee to participate in the Employee Assistance Program. However, employees must realize that they have the responsibility to correct poor performance, whether or not they accept the assistance.

Any information that an

the Employee Assistance Program Officer, with or without the knowledge of the employee. If an individual who has personal problems desires, a family member may be brought along to the counseling session.

An individual who suffers from

We all recognize that personal problems can influence performance and behavior and with the help of the employees and the supervisors working through the Employee Assistance Program Officer we can provide workable solutions to problems."

Taking the Census -- Everybody Counts



The 1980 census, which begins April 1, will mark the 20th time in the Nation's history that Americans have counted themselves.

The number of questions and the uses of census data have both grown considerably since the first count, and quill pens have yielded to computers, but the census has

never lost its roots in the Constitution.

When the delegates to the Constitutional Convention met in 1787, they decided that population distribution should be the basis for direct taxation and for apportionment in the House of Representatives, so they approved a Constitutional requirement that every person in the

Nation be counted at least once every ten years, beginning in 1790.

For nearly two centuries since then, the decennial census has monitored the growth and development of the Nation, yielding invaluable information about ourselves as a people: who we are, what we do, how we live. Taken together, these ten year assessments of the developing republic form the backbone of our history.

The 1980 census will count all residents of the U.S., Puerto Rico, the Virgin Islands, Guam, American Samoa and the Trust Territories of the Pacific Islands.

Data will be compiled for 3200 counties; 20,000 incorporated villages, towns and cities, 37,000 county subdivisions; 45,000 census tracts; 300,000 enumeration districts and block groups and 2,500,000 city blocks.

In addition to determining the seats in the House of Representatives the census data also is used to guide the distribution of billions of

dollars in Federal funds to State and local governments and the distribution of additional billions of dollars in State funds.

Every household in the U.S. will receive a census questionnaire in the mail on March 28 and will be asked to answer the questions. About 90 percent of the households will be asked to mail back their completed questionnaires. The remaining ten percent - primarily those in sparsely settled areas - will be instructed to keep their completed questionnaires until census takers pick them up.

Approximately four out of five households will be asked to answer the 19 questions on the short version of the questionnaire. The remaining households will answer the longer version with 46 additional questions. Many people will answer the short version in 15 or 20 minutes and the longer version may require 45 minutes or so, but individual times will vary. Most questions will be answered by filling in the appropriate circle with a pencil.

Data processing by Census Bureau computers will yield an estimated 300,000 pages of statistics. The information, which cannot be used to identify an individual's census answers, will also be available in microfilm and on computer tapes.

Most of the 1980 census questions were also asked during the 1970 census, including subjects such as age, race, sex, marital status, type of housing unit, education and occupation. This census will gather more information about racial and ethnic origin, national energy usage and journey-to-work patterns.

While Federal law requires everyone to answer the census, the same law assures that every person's answers to the census are confidential.

The first U.S. census, done in 1790, took 18 months and showed a population of just under four million. The 1980 census is expected to count approximately 222 million people and 86 million housing units.

Kudos

Service School Selections

Headquarters Defense Mapping Agency has selected the following Aerospace Center employees to attend Long-Term Full-time Training: Air War College - Jack T. Wallace, SDC; Armed Forces Staff College - Betty J. Qualls, SD, and Joseph Mullins, GD; Navy Command and Staff College - Robert L. Thibodeaux, SD; College of Naval Warfare - Harlan W. Reese, PR.

Nelson Appointed

William Nelson, LOC, was recently appointed a Government Contracting Officer, with no dollar limitation, during recent ceremonies held in the Director's Office at the Aerospace Center.

Nelson will serve as contracting officer for the Equipment and Construction Section, Materials Buying Branch, Contracting Division. His principal responsibilities will be contracting for construction and investment equipment, including ADPE. This position was formerly held by William Liggett prior to his retirement.

Personnel Selection

The acting director of the Defense Mapping Agency has approved the selection of Dr. Joseph J. DelVecchio as deputy director for Systems and Techniques at the DMA Hydrographic/Topographic Center. Dr. DelVecchio succeeds James Gillis, who has retired.

Fly-by of Jupiter Topic of ASP Meet

Dr. Ray Arvidson, Associate Professor of Earth and Planetary Sciences Department at Washington University was the speaker at the American Society of Photogrammetry meeting held Feb. 12, where

lunar-like surface.

Ganymede, Jupiter's largest satellite is about one and one-half the size of our moon with a composition of about 50% water or ice and the rest rock. Its surface exhibits

Recent Retirements Noted

JUNE A. MORAN, PRRN, retired on Feb. 22 with 36 years, 8 months total Federal service.

Her Federal career began in 1943 at the Army Map Service, here in St. Louis. The following year she transferred to the District Engineer until July 1946 when she transferred to the Aeronautical Chart Plant at 12th & Delmar. She was assigned to the Cartography Department as a carto draftsman.

Since that time she has worked in various offices and held the positions of cartographer and supervisory cartographer. She worked in the Navigation/Aeronautical Systems Branch of the Directorate of Plans and Requirements at the time of her retirement.

Moran received the USAF Civilian Service Meritorious Award in 1967 for development of the ACIC Quality Control system. She was a DMA nominee for Federal Women's Award in 1974 and received the DMAAC Woman of Achievement Award in 1975.

She is a charter member of the St. Louis Sections of ASP and ACSM and, has held various offices in both, and has arranged the women's activities at those conventions in St. Louis.

When asked her retirement plans she said, "Continue my hobbies and other areas of interest including travel (have been to six continents), collecting art objects, rocks (especially crystal), walking and golf."

She also added that, "Back in the beginning - 1946 to 1955 - this organization knew how to have a party. We decorated the 'Hanger' and the 'Arena' with 1500 to 1800 chart makers turning out and I was a member of that group."

ARTHUR U. FEHRMAN, CDAEC, retired on Feb. 29 with 38 years, 9 months of Federal service.

He was inducted into the U.S.

part of a training cadre to teach incoming army medical personnel medical service in Army collecting and clearing companies.

In January 1945 he went to Central Europe and the Rhineland with the E.T.O. until September 1945 and then in November of that year was discharged from the service at Jefferson Barracks, Mo.

In January 1946 he joined the Organizational Records Branch, Records Administration Center, A.G.O. as a correspondence clerk, and served in that capacity until July 1950 when he transferred to the Army Finance Center as a fiscal accounting clerk.

He came to the Aeronautical Chart Plant in May of 1952 as a carto draftsman. Later he was converted to a negative engraver under the reorganization, the position held throughout his service in the Aerospace Cartography Department.

"Retirement plans include travel, camping, fishing and sleeping late," said Fehrman.

ROBERT R. MYERS, SDCOB, retired on Feb. 29 with 29 years, 6 months total Federal service.

"My first Federal job was teaching sewing to young ladies who were enrolled in the National Youth Administration's work program in 1940. This was not considered as civil service employment at that time," said Myers.

He was inducted into military service in October of 1942 in Peoria, Ill. After completing basic training at Ft. McClellan, Ala., he was assigned the job of company clerk. Early in 1943 he was reassigned to the Judge Advocate's School of Administration and Personnel Classification at Washington and Jefferson College in Washington, Penn., and then in the spring of 1943 as Classification Specialist in Headquarters Company of the 3rd

R.I.

He was discharged from military service at Jefferson Barracks Separation Center, Mo., in March of 1946. One week later he was hired by the Separation Center as personal affairs consultant to servicemen being separated from military duty.

From 1948 to 1952 he taught tailoring in the Missouri Valley School of Trades. He came to ACIC in March 1954 as a carto aid in the Cartography Division. During the past 25 years he has been assigned to Photogrammetry, Research and the Scientific Data Divisions. His last assignment was as a computer operator in SDCOB.

Myers community activities include membership at All Saints Episcopal Church, The Gaylord Social Club, Board of Directors of the St. Louis Grand Jury Assn. and the Alpha Phi Alpha Fraternity.

As for retirement, "I will continue with the above. My plans include building up my tailoring business, playing golf three times a week, travel, gardening and completing the handyman chores around our home.

"My 29 years, 6 months and 6 days of working for the U.S. Government have been a very rewarding experience and I appreciate having had the opportunity," said Myers.

WILLIAM TYSON, GADMP, retired on Feb. 29 with 31 years, 8 months of Federal service.

He began his Federal career when he was inducted into the U.S. Navy in June of 1945, and served at Pearl Harbor as a shipfitter. He was discharged from the Navy in May of 1946.

Tyson began working for DMAAC in June 1951 and was a woodworker in the Packing Section of the Distribution Division in the

metry meeting held Feb. 12, where he presented a fascinating talk in the latest results of Voyager's fly-by of the planet Jupiter.

Dr. Arvidson began his presentation with color-enhanced slides depicting views of Jupiter on approach. The ever-changing convection patterns in Jupiter's color-banded atmosphere were dramatically pictured along with the Great Red Spot, a circulating atmospheric disturbance which could contain two earth-sized planets.

After viewing some close-ups of Jupiter, Dr. Arvidson turned his attention to four of the Galilean Satellites. Callista, the outermost Jovian satellite has the lowest density and its surface is darker than the other Galilean satellites. Called the "ice planet", it has large amounts of water in its bulk composition and a

the rest rock. Its surface exhibits white stringy material intruding over older and darker terrain indicating that a type of tectonic activity may be present.

Europa, the brightest of Jupiter's Galilean satellites is approximately the same size and density as our Moon. Its surface of thin ice crust displays a complex array of linear fractures or faults crisscrossing in various directions giving it the name "rotten egg" planet. Some of these fractures are over 1,000 kilometers long and up to 300 kilometers wide.

Io, Jupiter's innermost Galilean satellite, displays great diversity in color and brightness ranging from black through orange and red to white. When the first clear pictures of Io's surface were returned to earth, scientists were puzzled by the lack of intact craters which are characteristic of a relatively young geologic surface. The discovery of the mechanism responsible for this resurfacing was perhaps the most incredible finding Voyager returned -- evidence of eight active volcanoes with plumes extending up to 320 kilometers above the surface. These volcanic calders along with pools of molten sulphur have given Io its nickname of the "Pizza Planet".

Two brief films using time-lapsed photography techniques were shown illustrating Jupiter's turbulent atmosphere.

The next ASP Meeting will be held on April 8, 1980.

He was inducted into the U.S. Army Medical Corps in March of 1941 and trained to be a medical and surgical technician. He was stationed at the Medical Training Center at Rockford, Ill. when war was declared. He was assigned as

Headquarters Company of the 3rd Engr. Avn. Unit at MacDill Air Field, Tampa, Fla. He was then assigned to the 1882d Engr. Avn. Bn. and trained in Greenville, S.C. until he was transferred to the Island of Saipan, M.I. and then to Okinawa,

the Distribution Division in the Graphics Arts Department at the time of his retirement.

"I plan to rest awhile, get in some fishing and other hobbies," said Tyson, when asked his retirement plans.

DONALD J. WELCH, LOMS, retired on Feb. 29 with 35 years, 4 months Federal service.

He worked for the U.S. Engineers at the Federal Building as a mail-room attendant for three months prior to enlisting in the U.S. Navy in November 1942. After basic training he served for 18 months in the Pacific assigned to the USS Corina AK 74, and Ship Repair Unit Navy 140 Solomon Islands. He was transferred to the Navy Yard in Philadelphia and after being commissioned served aboard the USS Little Rock until his discharge in October 1945.

He worked for the U.S. Engineers from January to May 1948 on the Chain of Rocks Lock and Canal project in the concrete laboratory. In July 1948 he accepted a job with the Medical Depot as a medical equipment repairman and worked there until June 1955 attaining a GR 17 as a machinist specialist. He transferred to ACIC as a press mechanic in the Printing Division Maintenance Section. He was assigned as a press mechanic leader in the Maintenance Support Branch of the Equipment Maintenance Division at the time of his retirement.

His retirement plans are "... to devote more time to my 50 acre farm in Leslie, Mo.," said Welch.

AFAF Contributors



Col. John S. McKenney, deputy director (left) and Col. Robert C. Burns, director of the Aerospace Center, take a few minutes from their daily schedule to make their contribution to the Air Force Assistance Fund. The Fund raises donations for the Air Force Aid Society, Air Force Enlisted Men's Widows and Dependents Home, and the Air Force Village. Air Force personnel are primary contributors to this charity, however, donations may be made by any DoD employee, especially those retired from the Air Force or on reserve status.

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It Started 39 Years Ago...

Almost 39 years ago on May 27, 1941 Margaret C. Wisneski made the journey to the Weldon Springs Ordnance Works (near St. Charles) to apply for a job with the Corps of Engineers. She was hired as a clerk steno by the Administrative Officer and since there was no public transportation to take her back home after the interview she began her Federal career that day.

This career was to involve her in the establishment of one of the largest Federal agencies in St. Louis -- the Aeronautical Chart Plant.

When the construction of the Weldon Springs site ended in March of 1943 she turned down an offer to go with a small group to 4300 Good-fellow (now an Army installation). Instead she was asked by the Executive Officer to be his secretary in the Corps of Engineers Recruiting Office in the Federal building downtown.

In August 1943 Marge made a transfer that was to be the final one of her career. She joined the embryo unit of a Chart Plant (on 12th Street) and was placed in charge of the Mail, Records and Central Files.

Progressing through a variety of positions Miss Wisneski was to spend 36 years with the Chart Plant and its successor organizations, the USAF Aeronautical Chart and Information Center and the Defense Mapping Agency Aerospace Center.

In 1948 she became secretary to the Commanding Officer, Colonel



Cochran and later Colonel Morrison. She served in this position until 1952 when she became secretary of the Suggestion Program in the Personnel Office.

In 1954 she was reassigned as administrative assistant in the Requirements Division of the Directorate of Operations before moving to the Information Office in 1960 as the historian.

For her last 20 years of Federal service she remained in the Information/Public Affairs Office serving as historian and later information specialist.

During those twenty years she served as the Center's primary tour guide for college and specialized public tours in addition to her regular writing and information duties. She was the only project officer the Center has ever had for Old Newsboys Day taking it from a contribu-

tion of a few dollars to record years of over \$1,000 in the latter part of the 70s.

Her dedication and service applied not only to the Public Affairs programs but to other organizations associated with the Center. Very few major functions have been held by the Women's Club or the professional societies without the assistance of Marge.

When the Arsenal Credit Union was organized she was elected to the Board of Directors and served as the Secretary to the Board for 27 years.

"I've seen a lot of changes in the organization and many reorganizations throughout my more than 36 years here," said Marge, "but it's getting to the point now where there aren't too many of the 'ole familiar faces' around anymore."

On Feb. 29, 1980 Margaret C. Wisneski closed a Federal career of almost 39 years and bid goodbye to an organization that she had called home for over 36 years; an organization she had seen grow from a handful of persons in 1943 to over 4000 in 1980.

In retirement she plans to travel, do some volunteer work and take up some new hobbies, basically, "just doing what I want to do when I want to."

For the many she has come in contact with throughout her career there will always be fond memories of Marge -- the lady that always offered a helping hand to those she met along the way. **dlb.**

ALVIN H. BAKER, ADDEC, reached the 30 year service mark on Mar. 9.

He began his Federal service by entering the U.S. Air Force at Lackland AFB, Tex. in 1949 and then

Kan. and after basic training attended photo school at Lowry AFB. In December 1949 he was assigned to the 548 Recon Unit which was responsible for photo mapping of all the Philippines.

February Honor Roll

35 YEARS

Bobby G. Wright, William J. Moran, Roger E. Larkin, Kenneth F. Cranmer, Raymond Cole, Joseph F. Wiedemeier.

30 YEARS

Robert L. Bender, Oscar Simpson, Arthur J. Krahm, Charles W. Pinner, Gregory F. Luig, Raymond L. Jones.

25 YEARS

John F. Gulliksen, Fred P. Royal, Joseph A. Aromando, Robert J. Burnham, Jr., George Fields, David J. Nelson, Irene M. Markenson, Lawrence T. Applebaum, Warren J. Bless, John L. Christopher, Jr.

20 YEARS

Emma L. Burns, Opal A. Eckrich, James F. McClure, Donald L. Moore, Eldon L. Gamel.

15 YEARS

Robert V. Lewis, Carl J. Mihleisen, Randall B. Nagel, Ladonna L. Schaffer, Mary Jane Ladd, Richard S. Hallowell, Darrel D. Devault, Leonard W. Hudgens.

10 YEARS

Janet J. Dalton, Irene A. Howe, Gary C. LeFave, Joseph C. Horvath, Jr., John L. Perrone, John E. Betts, George W. Hynes, Anita F. Kickham.

OUTSTANDING PERFORMANCE RATING

Dorothy L. Cathion, Max G. Roberts, Otto C. Stoessel.

OUTSTANDING PERFORMANCE RATING/ QUALITY SALARY INCREASE

Thomas Gilbert, Patsy R. Hecker, Roy D. Kindsfather, Harold L. Lewis, Dennis E. Moellman, Donald E. Powers.

OUTSTANDING PERFORMANCE RATING/ SUSTAINED SUPERIOR PERFORMANCE

Ronald Beckeman, Mary C. Corbett, Henry Schlueter.

QUALITY SALARY INCREASE

Harold Johnson, Alton A. Kistler, Allan Richardson, Robert E. Rutledge.

SUSTAINED SUPERIOR PERFORMANCE

William D. Beatty, Donald W. Davis, Charles H. Cook, W. M. Morrison, D.

Three Celebrate 30th Anniversary

CLIFTON O. CREWS, GDCBD, celebrated 30 years of Federal service on Mar. 1.

He entered the U.S. Air Force in January 1950. After completing

basic training he attended the Engineers School at Ft. Belvoir, Va., in the photomapping class.

"During the time I was in school the Korean War started and after the training course was completed I was assigned to FEAF Hq. In Tokyo, Japan, I was stationed with the 548th Reconnaissance Technical

Squadron based at Yokota AFB, Japan. There I spent a 27 month tour of duty before returning to the U.S. I was next sent to the 2nd RTS at Barksdale AFB, La., where I spent the remainder of my enlistment."

After he was discharged in January 1954 he hired into ACIC and was assigned to the Photogrammetry Division, working in various jobs in that Division until September 1958 when he was transferred to the newly formed Missile Support Division.



Crews

Baker

Meister

naissance missions over Korea until 1952.

Baker was discharged from service in September 1952. He began working at the Aeronautical Chart and Information Center in December of 1953 as a GS-2 cartographic aid. As a result of reduction-in-force action in 1957, he was transferred to the Aeronautical Information Division in the FLIP Section.

At the present time he is an aeronautical information specialist in the Data Reduction Division of the Aeronautical Information Department.

FREDERICK A. MEISTER, SDRP, completed 30 years of service on Mar. 9.

He enlisted in the U.S. Air Force in December 1947 at Fort Reilly,

Since then I have been assigned to various section/branch organizations all within the same basic division which has seen several reorganizations and changes during this time," said Crews.

At the start of the Korean Police Action, he was sent to the USAF Far East headquarters in downtown Tokyo, Japan as a public affairs photographer. Some of the highlights he had as a PA photographer were covering Gen. Douglas MacArthur's farewell to the Japanese and his favorite singer, Al Jolson's last visit to the American troops overseas.

Meister returned to civilian life in December 1951. He began work at the Aeronautical Chart and Information Center in March of 1954 as a cartographic photogrammetric aid and then in August of that year was changed to an offset photographer in the Photogrammetry Division. "This was during the days when you carried a calendar (A-B-C) to let you know what days you were worked during a seven day period," said Meister.

In June of 1959 he was reassigned to the Missile Support Division. According to Meister, "There were so few photographers and so many tours, we were on 12 hour shifts, twelve to twelve, seven days a week. The pay was good, but the hours were long."

He was promoted to photographer foreman in November 1962, and then photographic quality control inspector foreman in April 1969. In 1973 he worked in the Missile Support Division, Engineering Office.

He was promoted to his present position as Chief, Production Management Office, Precision Photographic Division of the Scientific Data Department in 1974.

Walter R. Beatty, David W. Bbone, Charles H. Cook, III, Maurice D. Daniell, Richard Fisher, Ted E. Musial, Harvey M. Nelson, Gayle Saulnier, Robert E. Sieving, James J. Starr, Charles D. Trimble.

SUGGESTION AWARDS

Jesse B. Snulligan, \$335.00; Roger M. Carbone, \$25.00; Marvin H. Whyman.

Special Ceremony

A special ceremony commemorating the 117th anniversary of the first awarding of the Congressional Medal of Honor will be held at the Soldiers' Memorial Military Museum on Mar. 23 at 2:00 p.m. Russell E. Dunham, the only living recipient of the Congressional Medal of Honor in the St. Louis Metropolitan area will attend.

Refreshments will be served at the reception immediately following the memorial services honoring those Medal of Honor recipients and all others that made the supreme sacrifice.

Refreshments will be served at the reception immediately following the memorial services honoring those Medal of Honor recipients and all others that made the supreme sacrifice.





Vujnich Places 8th In Marathon

The third annual St. Louis Olympiad Marathon (26.2 miles) and 10 K (6.2 miles) events, held Mar. 2, attracted several participants from the Aerospace Center community.

Joe Vujnich (GDDBA) distinguished himself by finishing eighth overall in a field of approximately 700 marathon runners. Joe's time

was a very respectable 2 hours 31 minutes 58 seconds (2:31:58), and while this may not quite qualify him as a world class marathoner, it definitely ranks him in the top one percent of marathon runners in America. Vujnich prepared for the St. Louis marathon by running 75-80 training miles per week for several months prior to the race. His time

of 2:31:58 also qualifies him for the Boston Marathon, and is an indication that with better weather and running conditions his time easily could be improved by several minutes.

Bob Howard (GDDB) also ran in and finished the marathon but because of a leg muscle problem his time of 3:50:30 was well over his best previous marathon effort.

Among the 800 plus 10 K runners, Leon Fennell (GDDB) led the AC entries across the finish line with an excellent time of 40:25, which also placed him in the top ten of the Masters Division. Jerry Carlton (DA) was the 1st place medal winner in the veterans division with a personal best of 43:56. Susan Resetarits (SDCO), 51:17; Vickie Bohrer (SDCD), 62:40; Mike Caulson (CDVB), 43:30; Frank Aufmuth (SDR), 47:06; and Gene Betz (SDT), 46:26 all completed the 10K race in excellent times for their respective divisions.

These AC employees also are members of the Aerospace Strider's Club and, with several other club members, will be training together for the 5 mile St. Patrick's Day run on Mar. 15.

—Jerry Carlton



the night were 201 and 212, giving him a series total of 713.

Delaplain Rolls The Magic Number

Certain numbers have a magic ring to them, such as the old lucky 7 come 11. But for Jeff Delaplain, GDDB, the magic number was 300.

Delaplain rolled 12 consecutive strikes in a row, the perfect 300 game, on Feb. 21 at the Stein Brothers Lanes in St. Louis. He is a member of the Marauders bowling team on the Thursday night men's league made up of Aerospace center employees.

This was Delaplain's first 300 game. When asked how he felt while bowling the game he said, "The only worry I had was the eleventh strike. It was not quite as solid as the other strikes."

He carries a 208 average in the men's league. His other games for

Center Co-ed Volleyball

The 1980 DMAAC Co-Ed Volleyball Tournament enters the final week with the Dirty Dozen, Bumper Stickers and Net Knockers advancing to the finals of the Championship Tournament and Miller Highlives, Network and Sugar Daddies fighting for the Consolation Championship.

On Feb. 26, the Leftovers advanced to the Championship Tournament with a victory over Mickey's Keep-It-Ups behind the fine floor play by Shirley Miner, Tom Christoffel, Louise Calloway and Ed Coycault.

In the second game, the Net Knockers defeated the Sugar Daddies, to set up a rematch between the Net Knockers and the Leftovers. Excellent play by Judy Spoering, Diane Handte and John Hall led the Net Knockers into the Championship Tournament.

The Bumper Stickers go into the Championship Tournament as they defeated Out To Lunch Bunch. Led by John Doty, Nick Parker, Barb Lair and Martha Hovis, the Bumper Stickers play the Chinese Sandpeople in the semifinals.

In the last game of the play-off round, the 12-Paks received a scare from the Bad Data team, but prevailed in overtime to advance into the Championship Tournament. Outstanding play by Clair Renschen, Bill Judge, Sharon Barr and Barbara Klocke enabled the 12-Paks to move into a semifinal game against the Dirty Dozen.

In a first round game in the Consolation Tournament, Miller Highlives defeated Bad Data. Excellent floor play by Judy David, Don Meyer, coach Penny Miller and Ed Fank moved Miller Highlives into

the Consolation semifinals.

On March 4, the Network team moved into the Consolation semifinals with a win over the Out To Lunch Bunch. Led by coach Chuck Wilkins, Steve Laughlin, Kim Owens and Jeff Bowman, the Network play Miller Highlives in the Consolation semifinals.

In the second game, the Sugar Daddies, behind the excellent play of Adolph Wuenscher, Debbie Lynch, coach Frank Halleman and Bill Fineran defeated Mickey's Keep-It-Ups to go into the Consolation finals.

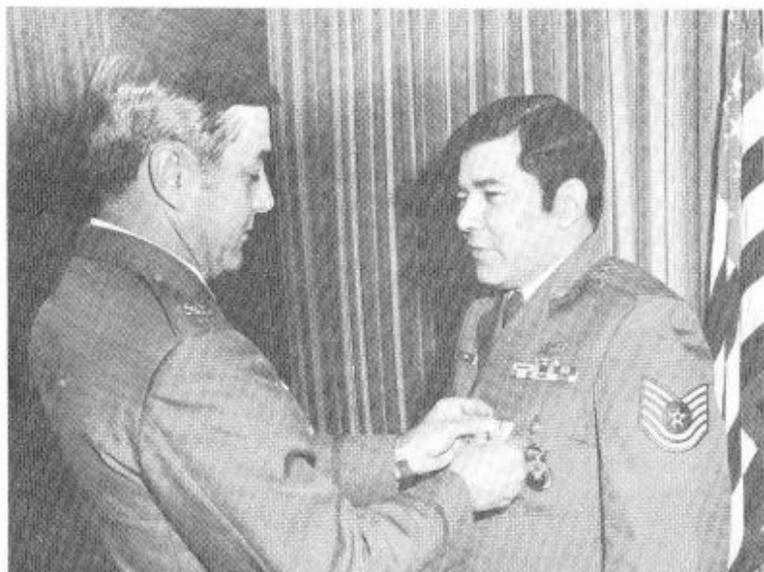
The Dirty Dozen defeated the 12-Paks in a mild upset to gain the Championship semifinals. Outstanding play by Debbie Ullo, Scott Gibson, Rick Remmler and Ellen Winters moved the Dirty Dozen into the Championship Round-Robin Finals.

In the next game, the Bumper Stickers eliminated the Chinese Sandpeople to gain a berth in the Championship semifinals. Excellent spiking by Chuck Baker and John Doty and fine floor play by Jeanne Provasnik and Martha Hovis placed the Bumper Stickers into the Championship Round-Robin Finals.

In the nightcap, an inspired Net Knockers team defeated the Division A League Champions, Leftovers, in a major upset to gain the Championship semifinal berth. Outstanding spiking by Kevin Spittler and Rex McSpadden and the super floor play of Judy Spoering and Bev Bollinger, enabled the Net Knockers to become the third team in the Championship Round-Robin Final.

—Chuck Arns

TSgt. Raimo Receives JSCM at Retirement



Col. Robert C. Burns, director of the Aerospace Center, pins the Joint Service Commendation Medal on TSgt. Joseph F. Raimo during recent ceremonies. Sergeant Raimo was cited for meritorious service as Security Police Noncommissioned Officer, Defense Mapping Agency Aerospace Center from September 1976 to February 1980. "During this period, Technical Sergeant Raimo consistently displayed superior professional skill, knowledge, and initiative in the performance of his duty. His dedicated and untiring efforts greatly enhanced the overall effectiveness of the Aerospace Center Security Program." Sergeant Raimo retired from military service on Feb. 29, after 29 years of service with the Air Force.

Air Force Spinoffs Aid Everyday Life

Spinoffs seem to be the big game in television today. "All in the Family" begot "The Jeffersons" and "Maude" which in turn begot "Good Times". "Happy Days" had a spinoff in "Laverne and Shirley."

The Air Force has spinoffs, too. Air Force research for national defense improves our safety, health and living standards.

The Houston Astrodome, tennis rackets, pocket calculators, cookware and clothing have benefited from research for Air Force programs.

Civilian aviation benefits from military developments more than most other areas. A descendant of an Air Force guidance system is now used on the Boeing 747. An engine developed for military aircraft is now used by commercial airlines. Thousands of special seals, valves and other items developed through Air Force programs are now standard components on non-military aircraft.

Military satellites play an important role in our nation's defense. They also help locate sites for civilian power plants, inventory forests and wildlife, locate natural resources and supply information to prepare maps.

One satellite system can track severe storms such as hurricanes. It can also be used with other systems to detect forest fires and volcanic activity.

High-resolution radar, developed for satellite navigation and intelligence missions, is used to search for oil deposits, conduct crop surveys and detect pollution.

The solar cell that turns sunlight into electrical energy is another military innovation with commercial use. The Air Force is conducting research into using solar energy for heat.

Medical science is another field benefitting from Air Force research programs. The laser used in eye surgery and components for artificial heart and kidney machines came from Air Force research.

Biosensors were first used to monitor body functions during Air Force test flights. They are now used to monitor medical patients from central stations, allowing one medical specialist to care for several patients simultaneously.

Air Force developments are most obvious in consumer products. Electronic pocket calculators and digital watches began from a milit-

ary need for miniaturized electronic components.

Golf clubs, tennis rackets and fishing rods have been improved through Air Force development of reinforced plastics for military purposes.

The Houston Astrodome is based on the design of radomes developed to protect radar equipment. Radomes are used commercially as tents and swimming pool covers.

White ceramic cookware uses the same material developed for the nose cone of an intercontinental ballistic missile. Yarns developed for parachutes and space clothing are used in modern carpets, drapes and clothes.

Defense dollars spent on research not only help ensure the future of the nation, but they also contribute to improved living standards for everyone.

Tax Time A Month Away