

Orienteer

DEFENSE MAPPING AGENCY AEROSPACE CENTER

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Photo by Jim Stepanik

Alexander Gomes of DMA Office Europe reviews the file in the Aeronautical Information Library for one of the countries that supplies data for aeronautical information products of the Aerospace Center. Gomes and other representatives from DMA's Combat Support Elements were here last month for the annual meeting to review source requirements. Pictured are, from left, Marvin Hoffman—DMA Office

Latin America, Robert Takano—DMA Office Pacific, Gordon Ferrari—Headquarters DMA, Capt. Michael Szyhowski (PPCF), Gail Keeve (MCCBA), Migdalia Marin—chief of MCCBA, which houses the AI library. Gomes, Lawrence Even (MCCBA), and Wilma Pacey—DMA Combat Support Center, Washington, D.C.

Combat Support Reps Confer Here

Old Newsboys Final Tally

A total of \$1,450.94 was collected by the Aerospace Center's Old Newsboys and Newgirls in the annual charity drive for needy children Nov. 19. Second Street sellers collected \$982.66. The South Annex added in an additional \$468.28.

To all who helped make the Center's 26th Old Newsboys drive a success, thanks! Photos and details will be in the Dec. 11 Orienteer.

Appointed Director of AQ

William M. Nelson has been appointed Director of Acquisition (AQ) for the Aerospace Center. He had been serving as the acting director.

With 54 civilian and two military personnel assigned, AQ is responsible for purchasing goods and services from the open market, ranging from light bulbs to computer equipment and services.

Born in Crystal City, Mo., Nelson came to the Center in June 1958 as a forms management clerk in the Directorate of Administration. He transferred to the Printing Department, now the Graphic Arts Department, first as a supply clerk and then as an offset press helper. Later, he became a production controller. Transferring to the Directorate of Logistics Equipment Maintenance Division, he served as a production controller and contract maintenance officer.

Nelson joined the Contracting Division, now AQ, as a contract negotiator. He was chief of the ADP Support Division and Deputy Director before his latest appoint-



William M. Nelson

ment.

Nelson served in the Navy from 1951-55 and held the rank of storekeeper second class at the time of his discharge. He earned his B.S. degree in acquisition management in 1983 through night school at Tarkio College.

By Paul Hurlburt

Representatives of the Aerospace Center and DMA Combat Support Center, who gathered here to review source requirements for flight information products last month, paid a visit to a unique library housed at 8900 South Broadway.

"The Aeronautical Information Library is the hub of all our efforts to gather source materials for our products," explained Capt. Michael Szyhowski, staff officer in the Aeronautical Data Branch of the Directorate of Programs, Production and Operations (PPCF). "The meeting gave those attending a chance to look over its operation."

Aeronautical information analysts rely on the source materials stored in the AI library to update flight information publications and other products, ensuring that users have the latest and most accurate information available. The library is maintained by the Aeronautical Source Acquisition Section (MCCBA).

Source materials are obtained through a variety of agreements between DMA and military and civil aviation authorities in many countries, including the United States. "Currently, we have more than 100 formal and informal agreements," said Captain Szyhowski, who serves as agreements monitor. Before coming to the Aerospace Center last year, Captain Szyhowski was the mapping, charting and geodesy officer at Headquarters Pacific Air Forces, Hickam AFB, Hawaii. He has also served at DMA Office Pacific as chief of distribution.

Three of those who came to the Aeronautical Information Management Coordination Meeting are

assigned to DMA's Combat Support Elements, located in Germany, Hawaii and Panama. In their role of coordinating agreements to obtain source materials, these representatives travel extensively throughout their theater of operation. In effect, they get the "books" that the aeronautical information specialists "check out" of the library.

The source acquisition program for aeronautical information and charts provides benefits for both of the parties involved in an agreement, observed Captain Szyhowski. "There is a mutual interest in flight safety."

Before the annual meeting, PPCF does an assessment of all the agreements in effect, looking for shortfalls of information or other areas that need attention. "This helps us prioritize the information we need and coordinate travel plans," said Captain Szyhowski.

Representatives from the Combat Support Elements generally visit every country with which DMA has an agreement for aeronautical information at least once in three years. Some countries are visited more often.

"The in-theater representatives are continuously on the road," said Captain Szyhowski. This month for example, Alexander Gomes, the representative from DMA Office Europe, was scheduled to visit the Ivory Coast, Kenya and Zaire, while Bob Takano of DMA Office Pacific was off to Pakistan and Bangladesh.

Military aviators depend on the Flight Information Publications (FLIPs) of the Aerospace Center for flight planning and in-flight operations, both enroute and terminal.

FE Aims for Office Park Environment at S. Annex

The planting of weeping willows, among other trees, near one of the lakes at 8900 S. Broadway, is part of a larger plan to transform South Annex from an industrial site into a modern office park, officials say.

"South Annex used to be a warehouse area in World War II, but it's not now," said Lt. Col. Donald J. Armstrong Jr., Director of Facilities Engineering (FE). "Depending on the availability of funds, we want to create an

environment more appropriate for our professional people."

The weeping willows by the lake will form the anchor of a landscape plan for an area southeast of the east lake, said Colonel Armstrong. "A variety of trees have been planted on a corner of the lake to complete work we started in 1985; the area southeast of the lake will be landscaped next."

A stand of 30 cedar trees (canarti junipers) has been planted at the east end of Building 8900-2 to create a windbreak, as well as a more pleasant environment. FE has also been constructing bins to store raw materials like gravel instead of leaving them out in the open. The storage area itself will be enclosed by a fence, with trees planted along the fence.

Continued on page 3.

CFC Total Rises To \$221,298

A welcome surprise for staff of the Combined Federal Campaign was a late surge in giving that brought the campaign total to \$221,298 — \$4,901 over the total reported in the Nov. 13 *Orienter*. The final total beat the campaign goal by more than \$13,000.

"I would like to thank all the key workers, department managers and assistant department managers for their hard work in making this campaign a success," said Tom Nelsen, project officer. A cake-and-coffee celebration for the campaign workers was held in the dining hall Nov. 18.

The late surge of contributions brought participation in this year's campaign to 66.2 percent of the work force. The average donation was \$93.18 and the average payroll deduction gift was \$106.88.

Artificial Intelligence: It's in our Future

By Tom Joyce
American Forces
Information Service

There is nothing else quite like the human brain. It can store a thousand times more information than any computer mankind could ever hope to build. It allows us to blend information and make split-second decisions. But there is a

limit to how much information most people can absorb at one time to make those decisions.

Creating an artificial human with the ability to think has not only been the subject of many a Hollywood movie script, but also of serious scientists. Although the term "artificial intelligence" is just now coming into the vocabulary of the average American, serious

work has been done in the field since the late 1950s.

Larry Porter is an electronics engineer at one of Aeronautical Systems Division's four Air Force Wright Aeronautical Laboratories at Wright-Patterson AFB, Ohio. Each laboratory is devoted to research and development of advanced aerospace technology.

Continued on page 4.

Director's Hotline

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



Direct Line

Maj. Gen. Robert F. Durkin
Director
Defense Mapping Agency

Mutual Support Is Necessary

IN THIS, my first report to you, I want to say I am both pleased and proud to have been selected to be Director of the Defense Mapping Agency. My wife, Judy, and I look forward to sharing with you the experiences that have led so many people to describe to me the "DMA family."

I have spent a considerable amount of my time since the Change of Command out of the office, meeting the people of DMA on site in order to learn first hand about what you do and the environment in which you work. These visits have reinforced my initial conviction that you know what you do is vital to this nation's operational military forces — and that you are doing it well.

THE ENVIRONMENT in which some of you have to work is a different story. I've seen old facilities, some crowded work areas, and functional but obsolescent equipment. We cannot quickly nor easily correct these deficiencies. I want to assure you, however, that these improvements in the quality of life in the work environment are very high on my list of things to be accomplished.

I am pleased to find that major elements of the Modernization Program are reported to be on time and on track. However, continuing use of the older analog equipment to support our production requirements, while we take on board more and more of the new equipment needed to develop an end-to-end digital production capability, will undoubtedly create some tensions and more turmoil.

Compounding this situation is uncertainty about the ultimate effects of the Department of Defense Reorganization Act and funding restrictions resulting from the Gramm-Rudman-Hollings legislation.

IT IS ALWAYS easier to ask for patience and understanding than it is to give them. Nevertheless, I am asking. It will be most important for all of us to take a calm, well-reasoned approach to the uncertainties that confront us. We must keep the lines of communication clear, open and rumor-free.

There are existing channels for your recommendations on increased

DMA's First Historian on Board

Nearly everyone is familiar with the phrase, "Those who cannot remember the past are condemned to repeat it." Recently, DMA took a giant step forward to avoid falling into this trap by hiring its first full-time professional historian.

Shelley L. Davis arrived at DMA this summer with the mission of developing and operating the Agency historical function. She has been historian for the 12th Air Force for three years at Bergstrom AFB, Texas.

With eight years of experience as an Air Force historian and a master's degree in American military history, Davis is well prepared to take on this task.

"My first priority is to make DMA personnel aware of the addition of a historian to the Headquarters staff and to get people thinking about the historical importance of what they are doing today," said Davis.

The DMA historical program will have two main thrusts, according to Davis. The first will



Shelley L. Davis

include the preparation of an annual historical report to provide a complete record of DMA's current activities. This report and a supporting collection of documents will form the beginnings of the DMA historical activities.

The second thrust of the historical program will be to prepare a long-term official history

of DMA, focusing on the Agency's genesis in 1972 and its development over the past 15 years.

The establishment of an effective historical program for DMA will depend a great deal on the cooperation and understanding of the Agency's personnel, according to Davis. "The quality and quantity of information available to me is dependent on the willingness of the staff to provide me with complete and accurate background information," she stated.

Another facet of the historical program will include a collection of oral history interviews with key DMA personnel as well as a collection of historical photographs. Anyone who has photographs or documents that might be of value in preserving DMA's historical record is invited to contact Davis at Autovon 287-1364. She is located in the Administration and Communications Office at DMAHTC until Headquarters functions are consolidated next summer.

Director's Hotline Replies

Q. I think core time should be changed until 6 o'clock.

A lot of us travel a long way, and we get to work at 6 o'clock or before. This way we could beat the traffic, and we could have places to park, especially with winter coming up.

A. In your inquiry, you refer to core time as beginning at 0630. However, core time refers to the middle or "core" of the

situation. Consequently, I believe it best to continue with the 0630 start-up.

* * * *

Q. There are too few copiers at DMAAC, and I waste a lot of time standing in line to make copies. Why can't we get more high-speed copiers?

A. In FY 1987, people at the

Buildings 12, 18, 20, 22 and 25. Several copiers are located throughout the 8900 S. Broadway complex.

Because of cost, and to enhance internal control, not all areas of AC have a copier. Therefore, we strive for an efficient balance between customer service and cost. I recommend you talk to DA if you are experiencing excessive waiting time at your local copying station.

program and quality-circle efforts continue to provide additional opportunities for operational improvement. Only through the most efficient application of the professional expertise and dedication which is so clearly evident in the DMA work force may we effectively meet the very real challenges before us in the next few years.

I seek your support. I assure you of mine.



Bookline

i.e. hot new books in the technical library.

AN ATLAS OF FUNCTIONS, by Jerome Spanier. Everything you always wanted to know about mathematical functions.

DATA STRUCTURED SOFTWARE MAINTENANCE, by David A. Higgins. How to cut the high costs of program maintenance.

AN INTRODUCTION TO STATISTICAL METHODS AND DATA ANALYSIS, by Lyman Ott. How to understand the basics.

COMPUTER GRAPHICS AND APPLICATIONS, by Dennis Harris. Case studies and projects for microcomputer users.

ORGANIZATIONAL BEHAVIOR: READINGS AND EXERCISES, edited by Keith Davis. Studies and reports written in a user-friendly fashion.

THE COMPUTER COMES OF AGE: THE PEOPLE, THE HARDWARE AND THE SOFTWARE, by R. Moreau. History and evolution of the computer.

QUANTUM MECHANICS, by Alastair I.M. Rae. Introductory text for those with a physics background.

SUPERCOMPUTERS AND THEIR USE, by Christopher Lazou. Fascinating description of their development and applications.

—Peggy Mechanic
Chief, Technical Library

workday, during which all flexitime employees are to be present at work. These hours are from 0900 to 1500. The thrust of your inquiry centers on moving the earliest starting time from 0630 to 0600.

Considerable experience under the flexitime system has shown us that the 0630 starting time is one that has been well accepted by most of our work force. In arriving at the 0630 starting time, consideration was given to a variety of factors, including manageability, reasonableness of the hour, and input from the Union.

While it may not be perfect for everyone, it seems to be acceptable to most employees, presents no significant impediment to effective supervision, and has no widespread negative impact on our parking

10,250,338 copies at a cost of \$176,285.89. The copy program is big business at AC and challenges management to provide highly efficient copy service, yet operate within current regulations, internal control procedures and cost considerations.

Copiers are located throughout the Center to handle walk-up customers. A manned center is also available for all types of copying needs. Walk-up copiers are placed in areas approved by Security, where they will best serve customers. These locations are determined through copy-volume analysis and through discussions with directorate and department management. Currently, there are copiers on each floor of Building 36, except the basement, and in

changes that will cut your waiting time.

In Sympathy

Word has been received of the death of Alton A. (Al) Kistler last June in San Antonio of cancer.

He was an aeronautical information specialist in the North and South American Branch before his retirement in January 1984. He came to the Aerospace Center in 1963 after serving in the Air Force as a command pilot. He was a retired lieutenant colonel.

Mr. Kistler leaves his wife, Doris, and two sons, both members of the Air Force.

Calendar

DEC.	EVENT	PLACE	RESPONSIBILITY
1	Toastmasters	Lindbergh Rm.	R. Snider/4956
3	Chartmasters	South Annex	H. Adams/8468
4	DMAAC Women's Club Bake Sale	2nd Street & South Annex	R. Meeks/843-6904
8	FBA Mtg.	Garavelli's Inn at Park	T. Woodward/895-9208
9	ACS Mtg.	Grant's Cabin	J. Brachtesende/822-8335
10	DMAAC Women's Club	Provinces Restaurant at Breckenridge Hotel	L. Vitchner/638-3332
15	Toastmasters	Lindbergh Rm.	R. Snider/4956
17	FEW Monthly Mtg.	2nd Street Dining Hall	K. Hille/8398
17	Chartmasters	South Annex	H. Adams/8468
18	Bloodmobile	2nd Street	P. Benson/4047
25	Christmas Day		

Contact Sue Paige/4142 to have your January events listed.

Honor Roll

40 Year

Robert P. Gundlach, Ervine F. Lafser

35 Year

Cyldie R. Greenwalt, Francis M. Purcell

30 Year

Harold E. McDonald

25 Year

Delores S. Bohler, Raymond J. Hric, Kenneth B. Korte, Danny C. Nash, Edward C. Scheibhofer

20 Year

Judith E. David, Susan M. Gligros, James R. Hildreth, Robert R. Kupferer, Linda L. Oeser, Catherine A. Pulley, Deborah Rusan

15 Year

Theresa M. Allen, Roger A. Becker, Marion G. Bonucchi, Linda E. Brabec, Robert P. Brueckmann, Gwendolyn Ford, Richard D. Jackson, Migdalia L. Marin, Linda S. McGaugh, Sheri E. Patefield, Judith A. Scheibel

10 Year

Melva L. Acker, Harold D. Birkhead, Allen I. Briesacher, William C. Burley, James C. Butler, Patsy A. Coleman, Mary A. Dierker, Joyce E. Fox, Neil D. Healey, Mark J. Kaiser, Vincent A. Kluge, Patrick B. Lutz, James W. Maher, Dennis A. Mattison, Donna E. Miller, William Paul Wert, Joseph A. Zwettler

Outstanding Performance Rating

Theresa M. Allen, Spencer L. Bartlett Jr., Julie Ann Bauer, Booker G. Bowers, Frank R. Chary, Synthia S. Cockrell, Jack L. Collis, Thomas P. Dougherty, Hazlett W. Hahne, Michael W. Harbaugh, Vaughn E. Harrington, Richard N. Hulsey, Brian J. Jennrich, Gerald L. Johnson, Vardyn L. Jones, Denise K. Kitts, William J. Klunk, Mariaelena A. Loomis, John D. Merideth, Donald P. Robinson, Pearl J. Rodriguez, Joseph L. Schreck, Nancy L. Shackelford, Roger Wolfe Shapiro, Jeffrey D. Simley, Joseph L. Toohy, Tim D. Washechek, Bruce D. Whitcomb

Outstanding Performance Rating/Quality Step Increase

Armand P. Bruecker, Cynthia A. Callahan, Michael S. Connell, Dean P. Erpenbach, Ronald R. Honaker, Dean C. Lakeman, Grace A. Mayer, George F. McGinley, Eunice D. Morrison, Douglas R. Nolte, Mark D. Popmeier, James J. Perry, Constance J. Pisciotta, David B. Prince, Scott C. Robinson, Terry L. Staebel, Sandra L. Tunnichoff,



Photo by Jim Stepanik

A stand of weeping willows and other trees, near the east lake at 8900 S. Broadway, is part of a larger plan to transform South Annex from an industrial site into a modern office park.

Promotions

Ahlers, Scott A., GS-9
Archibald, Cheryl L., GS-8
Bacon, Sherry L., GS-7
Barclay, James, GS-9
Beason, Perry D., GS-9
Berg, David M., GS-9
Boever, James J., GS-9
Bowman, Jayne R., GS-9
Brandon, Margaret A., GS-8
Brauer, Leonard E., GS-8
Brown, Geraldine, GS-8
Bruno, Steven G., GS-9
Chambers, Florence J., GS-8
Clark, Donna R., YW-00
Clemons, Janet A., GS-5
Cole, Rose Ann, GS-7
David, Judith E., GS-11
Deruiter, Christopher A., GS-9
Disney, Mark G., GS-9
Doyle, Edward T. Jr., YW-00
Dukes, Eddie W., GS-8
Duncan, William M., GS-9
Gatlin, Lucille R., GS-8
Getz, Harold J., GS-4
Goggin, Richard N., WL-10
Goodman, Darlene, GS-9
Gray, William J., GS-9
Groh, George R., GS-8
Hartnagel, Mark A., GS-11
Hinkley, Everett A., GS-9
Holcomb, Linda K., GS-8
Honsley, George L., GS-9
Jennrich, Brian J., GS-9
Jett, Francis D., WG-10
Kochs, James E., GS-7
Kopchak, Barbara E., GS-8
Lachance, Laura J., GS-4
Lanford, David A., GS-9
Lawrence, Deborah A., GS-12
Laws, Pamela A., GS-7
Ligibel, Gregory R., GS-9
Lorbert, Scott C., GS-9
Mathews, James W., GS-7
Maxwell, Randal C., GS-11
McAmis, Michael D., GS-9

Quality Step Increase

Gregory B. Shepherd, Flynn J. Stubblefield

Outstanding Performance Rating/

Sustained Superior Performance

Virginia R. Buecker, Antoinette Dean, Robert F. Heeszal, Cheryl D. Hogan

Sustained Superior Performance

Ronald E. Byerly, Edward D. Cejka, Jana L. Kanoy, Catherine A. Pulley

Outstanding Performance Rating/Performance Awards

Sheldon L. Anderson, James D. Dabbs, Marian K. Howard, Linda M. Johnson, William H. Koch, Kimberly D. Norgaard, Dennis D. Sellers, Samuel E. Smith, Mark H. Voller

Performance Awards

John M. Allen, Sheree A. Cannady, Richard E. Dumont, Jeffrey L. Kline, Nancy A. Ramey

Special Act Award

Alan P. Hilker, Edmund J. Kaczmarek

Suggestion Award

Eric W. Hein — \$216, John B. Geskermann — \$75, Samuel E. Smith — \$75, Nathan F. Strickland — \$30, Craig N. Brandenburg — \$25, Dean G. Obry — \$25, Lynn Boyd Breeding

KNOW CANCER'S WARNING SIGNALS

Change in bowel or bladder habits

A sore that does not heal

Unusual bleeding or discharge

Thickening or lump in breast or elsewhere

Indigestion or difficulty in swallowing

Obvious change in wart or mole

Nagging cough or hoarseness

If you have a warning signal, see your doctor.

Continued from page 1.

Future projects include canopies over the entrances to Building 8900-4, the first phase of a long-term plan to improve that building's appearance. Landscaping, new signage, benches, and new lighting will follow. Much of the landscaping must await the completion next spring of an underground power-distribution project.

Restaurant Council Is Appointed

Alvin L. West (DPIP) will continue to serve as chairman of the Base Restaurant Council, according to an announcement by the Directorate of Administration. Ralph Gilbreath (GADF) will continue as acting chairman, as needed.

The entire Council is listed as follows:

Alvin L. West (DPIP) — primary, Dave DiFulvio (MCAP) — alternate.

Robby G. Sportsman (FEMF) — primary, J. Joy Strothman (AQF) — alternate.

William H. Carr (FEMEA) — primary, Les Wielgos (SDFCB) — alternate.

Linda Klinker (DSGAA) — primary, Henry Galan (ADDPC) — alternate.

Ralph Gilbreath (GADF) — primary, Ronald Camden (SDRAA) — alternate.

The Base Restaurant Council is the policy making body for operation of dining hall and vending machine facilities. The Base

Meanwhile, a Quality Circle in the Mapping and Charting Department has begun a self-help project to construct a picnic pavilion on the north side of the west lake. Employees are constructing the pavilion during non-duty hours, with FE providing a foundation for the pavilion and construction materials. Upon completion, the pavilion will be available to all employees.

Restaurant Officer, responsible for carrying out Restaurant Council policy on a day-to-day basis, is Alan L. Fruend (DPIDC).

Both primary and alternate members attend meetings of the Council, held at least once a month. However, alternate members vote only when the primary member is absent.

Women's Club Bake Sale Is Dec. 4

The DMAAC Women's Club is having their annual bake sale Dec. 4 from 7 a.m. till all is sold. The sale will be held in the lobby conference room at Second Street and in the dining hall at 8900 S. Broadway.

There will be a variety of cakes, cookies and candy, plus Christmas ornaments for sale. Proceeds will

Mercado, Paul, GS-7

Mobley, Clayton W., GS-6

Paquin, John P., GS-9

Poll, Linda M., GS-5

Riganti, John M., GS-9

Rone, Karen E., GS-6

Sargent, Marella M., GS-7

Shylkofski, Stanley M., GS-9

Snelson, Roberta A., GS-5

Snook, Paul C., GS-9

Stawar, Alan A., GS-9

Stefaniw, Paul J., GS-9

Stevens, Elizabeth A., GS-6

Stroecker, James D., GS-4

Sweeney, Vincent J. III, WL-10

Updegrave, Ronald C., GS-12

Vento, Paul V., GS-9

Wagoner, Donald E., GS-8

Walters, Ruth Ann, GS-9

Wangler, Bill J., GS-9

Whittington, Mary Ann G., GS-8

Williams, Karen L., GS-11

Williams, Scott K., GS-9

Wren, Virginia M., GS-11

Zollner, Monica P., GS-9

support the club's charities, among them the Dream Factory.

If there are any DMAAC employees wanting to donate baked goods, they will be accepted. Just bring the goods the day of the sale. For additional information, please contact Elaine Moore at 843-2963 or June Brown at 227-6551.

Luanne Lucy Plays Many Roles

Information for this article was provided by Larry Even (MCCBA).

What does it mean to "get involved"? Aeronautical information clerk Luanne Lucy (MCCBA) can tell you. During the past 12 years she has played many parts, dramatic and otherwise, in the Looking Glass Playhouse, a non-profit community theater in Lebanon, Ill.

Luanne played the part of Patty in "You're a Good Man, Charlie Brown," but her most gratifying role, she says, was Esther in "Two by Two." "I sang, danced and had to affect the accent of a 600-year-old woman," she said. "I was a wife, mother, mother-in-law, and finally I died."

Lucy has also filled just about every other "role" imaginable in operating the theater: publicity director, set designer, stage crew manager and props manager. She has served on the board of directors and as president of the board. She has been an assistant director and producer of plays. She has even operated the lights and managed rental suites for the Playhouse.

One of her more unusual roles was to coordinate interpretation of the theater's shows for the deaf. The



'I have no qualms about tackling projects in my private life that would have overwhelmed me before.'

—Luanne Lucy

interpreter sits under a beam of light and interprets, not only with sign language, but with dramatic body movements to convey special feeling.

Interestingly, the Looking Glass

Playhouse received its name from Charles Dickens, who at one time actually visited Lebanon. He referred to the area as a shimmering prairie, which appeared as a looking glass.

Luanne's involvement in the playhouse began when a member of her family was recruited to perform in a musical. After attending a rehearsal, she was asked to help with set construction, and she's been involved ever since.

"Being involved in a volunteer theater group allows you to develop your potential in many areas," she says. "If you're skeptical about having abilities to contribute, there are always people ready to encourage you and help you build up your confidence."

"I have no qualms now about tackling projects in my private life that would have overwhelmed me before, like building a room addition or putting in an in-ground swimming pool. And to develop a character on stage — with her own emotions and personality — has helped me to become more in tune with myself. I've found an increase in my ability to relate to people and to understand and sympathize with them."

The Looking Glass Playhouse has several productions planned, including "The Owl and the Pussycat," "I Do, I Do" and "Death Trap."

Says Luanne: "It's hard to tell what I will be doing in these productions, but you know I will have some sort of input."



FE Civilian of Quarter

James R. Hildreth has been chosen as the Non-supervisory Civilian of the Quarter in the Directorate of Facilities Engineering. He is the air conditioning mechanic lead man in the Air Conditioning Section (FEMEA).

The award is given to identify, recognize and reward those personnel selected as

...Artificial Intelligence

Continued from page 1.

Porter said artificial intelligence not only will play a major role in aircraft operations, but eventually will touch some aspect of each of our lives.

Today, artificial intelligence takes the form of "expert" systems on computer software that mimic the knowledge and thought processes of human experts.

"Computers today are very rigid," explained Porter. "That is, they will do only what you tell them to do. They have very low intelligence. Artificial intelligence attempts to re-create the human thought process so a computer can make decisions as a human would."

The real breakthrough in this effort came in the mid-1970s, said Porter, when expert systems were first tested. Scientists discovered they could interview a person who is an expert in a particular field, computer-code that person's expertise and use it to aid in decision making.

There are now more than 600 systems of this type being used in medicine, oil exploration, maintenance and other fields.

"One early expert system is being used to aid physicians to diagnose and select therapies for patients with blood diseases," said Porter. "It carries on an interactive dialogue with the physician and is capable of explaining its reasoning."

The Department of Defense is involved in research to make the best use of expert systems. The Aeronautical Systems Division has several ongoing programs to take advantage of artificial intelligence. They are expected to improve operational performance of weapon

Christmas tree any time soon. Even though great strides have been made in the field in recent years, Porter said there is a lot of research still to be done.

"For one thing, the systems in which we expect to use artificial intelligence will be required to make split-second decisions," said Porter. Computers that can make decisions in almost real time do not exist. "We're still working on that," he said.

Also, current expert systems generally function on information taken from only one person. "How do you code information from 70 different experts — many of whom disagree?" Porter said. "And how do you provide a system that will take information by sight and voice and use it to make decisions?" Those research and development programs are in their infancy.

Maybe the largest and most ambitious program that will use artificial intelligence is the pilot's associate, an undertaking that could help pilots make critical decisions in combat.

The pilot's associate will function much like added crew members. The different expert systems would provide the single-seat fighter pilot with information that a co-pilot, engineer, navigator or weatherman would provide.

Looking into the distant future, Porter said the next-generation artificial intelligence systems will be capable of learning.

"But along each step of the way, the main focus of this research will continue to be helping the human, not replacing him," said Porter.

Bowling Report

outstanding performers, as well as to boost morale, promote Directorate unity and enhance professionalism.

Hildreth was cited for his "continually outstanding efficiency and can-do attitude. He never fails to report for duty when called in an emergency or fails to stay over when required to complete a project." Hildreth was also commended for his dependability in reporting the status of projects and noting any problems.

Kudos

How do you respond to an emergency involving hazardous materials? To get some practice, safety specialist William Barnes (HSS) took part in a drill involving the hazardous chemical sulphur monochloride at the Safety Kleen Corp., I-64 and Illinois Route 157, Oct. 25. He is a fire fighter for the French Village Volunteer Fire Department, who sponsored the event.

Barnes worked in the mobile command center as a dispatcher. Participants also received six weeks of classroom training. Five fire departments, a police department, and the state environmental protection agency took part.

The French Village fire fighters almost missed their drill, fighting a house fire that began Saturday night and continued into the morning Sunday. Undaunted, most went directly to the hazardous chemical drill from the house fire.

* * * *

Frank Aufmuth (LOP) has been designated an Able Toastmaster by Toastmasters International. To achieve the recognition, members must complete a series of speech projects, serve as an officer of a Toastmasters Club, and present speeches before other organizations.

Frank is a member of the Aerospace Center Toastmasters at 3200 South 2nd St. He shared first place for best serious speech in Area-wide Toastmasters competition at Ralston-Purina Co. last year.

* * * *

John Sturm, husband of Betty Sturm (MCAP), was inducted into the Athletic Hall of Fame at the University of Missouri-Rolla last month. A member of the basketball team, John scored 1,183 points during the three years before his graduation in 1960. It was a record that held until 1973, when it was broken by a veteran of four years on the team.

Barb Speiser shot a 569 series with 223 and 201 games, which was 50 pins over her series average. Ray Hric shot a 555 series with a 248 game. J. Harmon shot a 602 series with a 215 game, which was 86 pins over his series average.

Earl Stephens shot a 229 game and was 83 pins over average for the series. Anne Konecnik was 52 pins over average, and Tom Christoffel was 50 pins over average.

In the standings, the First Street Alley Cats led the pack, followed in order by the Long Shots, Roller Coasters, Hot Shots, Balls and Bags, CNH, Gone Fishin', Handicaps, Hardliners, Mines in the Gutter, We Four, 2 + 2, Blazers Gutterbusters, Strikebreakers and Hitters.

Have a Happy Thanksgiving Day! Hopefully, we will shoot a lot of "turkeys" next time we bowl!
—Ginny Woehrl

and making time and costs, and make future systems more efficient.

One artificial intelligence program now in development will eventually monitor more than 19,000 separate potential fault points in the B-1B bomber's avionics, flight control and propulsion systems. When the aircraft returns for maintenance, the central integrated test system will already have located problems behind any faults that register.

But don't expect to find a thinking robot under your

The bimonthly luncheon of the Aerospace Charting Seniors will be held Dec. 9 at Grant's Cabin, 8352 Watson Road. The social hour will begin at 11:30. Lunch, choice of swiss steak or baked chicken, will be at 12:30.

Call Bob Daily at 355-3725, Joe Brachtesende at 822-8335, or Harley Jennings at 428-3356, or mail reservations including entree choice to ACS, P.O. Box 6942, St. Louis, MO 63123. Cost is \$7 per person. Reservations should be received by Dec. 4.

Volunteers Help with Tax Forms

A million taxpayers who are elderly, handicapped, have a low income or difficulty with English got help preparing their returns last year, thanks to volunteers in a

special program of the Internal Revenue Service.

The Volunteer Income Tax Assistance (VITA) program trains the volunteers in basic income-tax preparation. Then the volunteers provide free assistance to taxpayers who cannot afford professional tax help, explaining credits and deductions for which they may qualify and helping them to prepare their returns. Training for the volunteers by the IRS is conducted in December through January each year.

The VITA program can be sponsored by local civic or fraternal organizations, educational institutions, churches and social groups. For the convenience of taxpayers who cannot travel to an IRS office, most VITA volunteers provide assistance at neighborhood locations, such as schools, churches and libraries.

To learn how you can be a volunteer, call the IRS at (314) 425-6845.

Orientor

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