The Center Scene

Gathered in a group photograph near the six-foot diameter geophysical globe in EDC's lobby are members of Center Management staff. Standing, from left, are R. J. Thompson, Chief, Computer Services Branch; Allen H. Watkins, Center Chief; and Gary G. Metz, Assistant Chief for Programs. Seated, from left, are Russell A. Pohl, Chief, Data Production and Distribution Branch; Merlyn T. "Woody" Yaroch, Chief, Administrative Office; Wayne G. Rhode, Chief, Digital Spatial Data Technology Office; Donald T. Lauer, Chief, Technique Development and Applications Branch; Raymond A. Byrnes, Chief, Technical Information Office, and Glenn H. Landis, Deputy Chief, EDC. Focal point of the educational displays in the lobby, the globe is similar to an earlier Rand-McNally version used by NASA in training astronauts to view the Earth from 10,000 miles in space. Constructed of hand-laminated epoxy and fiberglass and painted to exacting specifications by cartographic artists, it shows remarkable geographic accuracy at a scale of 1:6,700,000 (1 inch = 100 miles). To better feature physical characteristics of the Earth's surface at this scale, the vertical scale is magnified, or exaggerated, approximately 15 times the horizontal. The 500-pound globe rotates once every three minutes.

EROS PARTICIPATES IN LARGE EXHIBITS

Thousands of persons from around the world are becoming acquainted with some of EDC's work this summer as they vacation in New Orleans and Los Angeles.

Last winter the Center received a request from the National Mapping Division's Applications Assistance Facility at the National Space Technology laboratories, near New Orleans, for EROS participation in a large exhibit planned in conjunction with the 1984 World's Fair. After consultation with NMD staff, examples from the National High Altitude Photography program were selected for the Center's participation. Charles "Chuck" Larson, assembled thirty-two color infrared photographs of New Orleans (taken in November 1982 and October 1983) into a large mosaic, at a scale of approximately 1:36,000. The Technical Information Section designed a 3- by 7-foot silkscreen backdrop and forwarded the mosaic and backdrop, along with other selected NHAP photos, to the exhibit coordinators who assembled and placed the materials in the display area. Frank Beatty, Chief of the Applications Assistance Facility, reports that many fair visitors are finding their way out to the display and that the New Orleans mosaic has been the exhibit highlight.

Another place that will have lots of visitors from all over the world this Olympics year is Los Angeles, where the new Aerospace Museum at the California Museum of Science and Industry will be a major point of interest. The Aerospace Museum, similar in concept to the Smithsonian's Air and Space Museum in Washington, D.C., will include a videodisk Landsat image display as part of a "Space Station Earth" exhibit. Don Becker, with special assistance from Photographic Laboratory and Data Management staff members, prepared a videotape master of over 100 Landsat scenes of selected cities and scenes that represent various remote sensing applications. A second videodisk will be prepared from the master tape and incorporated into an EDC lobby display.

EDC DEVELOPS INFORMATION SYSTEMS

Phyllis Wiepking

A primary responsibility of the EROS Data Center (EDC) is the development of new ways to handle the complex types of data required for management decisions concerning our country's lands and resources. Geographic Information Systems (GIS) or spatial data bases provide the capability to store, evaluate, and display a number of different kinds of information about a specific political or geographic entity, such as a county or a river basin.

A technical definition of a GIS is: a computerized information system that can input, manipulate, and analyze geographically referenced data in order to support the decision-making process of an organization.

Although it may seem that EDC's computerized mapping activities are of recent emphasis, today's advanced techniques have actually evolved over a number of years. David Greenlee, Geographic Applications Scientist, said that EDC has used computerized Landsat classifications to generate land cover images for over 10 years. By 1975, ancillary or secondary data were digitized and overlaid on Landsat classifications to improve interpretability. About a year later, topographic analysis techniques were first used in EDC post-classification processing. By 1979 a complete geologic data base for overlay analysis problems was developed for the training program. Since 1980, an increased emphasis has been placed on GIS development, and significant advances have been made in use of vector data analysis methods. (Vector data are specific x, y coordinates that define points, lines, or polygons.)

Perhaps the first and most important concept in a GIS is "spatial reference."

(Cont. on page 3)

UP FRONT

Senator Pressler's office has notified the EROS Data Center that on June 29 Congress passed the Land Remote Sensing Commercialization Act, calling for private-sector take-over of the Landsat earth-observation satellite system.

Phase one of the act calls for private-sector marketing of data from Landsats 4 and 5 until 1987, the limit of Landsat 5's designed lifetime. Phase two, which is to commence by 1988, calls for private-sector satellites to be launched and to continue the flow of land remote sensing data for six years. After that time, if the market for satellite remote sensing data is supporting private enterprise, commercial activities will continue under government license.

I am optimistic now that the picture is somewhat clearer for the Center concerning Landsat responsibilities and am pleased that EROS will continue to play a significant role in satellite land remote sensing. Our withdrawal from Landsat production operations will be gradual, since phase one of the legislation leaves the center with the continued job of processing incoming raw data. In two to four years, when industry is to take over the entire Landsat system, we will be heavily involved in national research projects on space remote sensing applications, a task written into the Landsat legislation by Senator Pressler, and we will be well along on other initiatives that will take us beyond Landsat processing activities. Future responsibilities of the Center were discussed recently with Dr. Dallas Peck, Director of the U.S. Geological Survey, Doyle Frederick, the Association Director, and Rupe Southard, the National Mapping Division Chief, during their visit to EDC to discuss Landsat-related issues.

Thanks in great part to Congress's interest in the EROS Data Center as a national research facility, the cloud of uncertainty that was hanging over the Center for the past two years is brightening.

Concurrent with Landsat commercialization activity in Congress, the Department of Commerce, which is responsible for the government-owned Landsat system, has been evaluating proposals from industry on a private-sector proprietor for Landsat. I have spent a great deal of time in Washington during recent months serving on the evaluation team called together to rate the industry proposals. On June 28, Secretary Malcolm Baldrige reported to Congress that negotiations are now underway with two firms still under consideration to operate the commercial land remote sensing system, Eastman Kodak of Rochester, New York, and the Earth Observation Satellite Company (EOSAT) of Arlington, Virginia.

Private-sector marketing of Landsat data could begin as early as October first of this year, with the EROS Data Center continuing to process incoming raw Landsat data for the Department of Commerce's National Oceanic and Atmospheric Administration, Federal manager of the Landsat system.

Allen H. Watkins

THORMODSGARD COMPLETES GRADUATE PROGRAM

K.C. Wehde

During the past academic year, June Thormodsgard, Computer Systems Analyst, Technique Development and Applications Branch, attended the University of Wisconsin at Madison as a part of the National Mapping Division (NMD) Graduate School Training Program. Through this program, NMD supports a few of its Federal employees throughout the United States for the period of one academic year to pursue advanced education. Employees are trained to assume increased responsibilities in technical research activities and/or in the management of Division operations and programs. June identified the University of Wisconsin's Institute of Environmental Studies as the appropriate place for her field of study, image processing and statistics, after careful consideration and coordination with members of the Technique Development and Applications Branch.

The NMD program, designed to provide job-related advanced training on a graduate level was rated by June as "Incredible" with 100 percent payment of tuition, fees and books, and a small per diem for living expenses, in addition to her regular salary.

June found her statistics and image processing courses to be extremely valuable. Mathematical and statisical research helped to put remote sensing into a different perspective. "It is good to get out of the daily working environment and get a fresh outlook," June states. It had been 10 years since her last long-term formal educational training. "I didn't read enough. I'm a doer. This training attuned me to research again. I read more now."

June was able to make new contacts with professors and to enjoy the city of Madison. "I loved Madison. It's a beautiful city with all of the advantages of a large metropolitan city—museums, theater, parks (the campus is on one of two large lakes within the city)—with none of the congestion."

When asked if she would do it again, June expressed mixed emotions. "Being away from family and friends was difficult, but the opportunity was too good and too challenging to pass up." In retrospect, it's hard for her to believe that the year is over. She brings back many useful ideas and concepts, which she will have an opportunity to apply as leader of the Image Mapping and Research Development Project Team.

The challenging NMD graduate training program has rigid requirements. Interested Federal employees may obtain additional information from EDC's Administrative Office.

VANPOOL ASSOCIATION WINS NATIONAL AWARD

The EROS Vanpooling Association is one of the nation's 10 recipients of the Federal Highway Administrator's Awards for Ridesharing. (The last issue of The Center Scene noted that our association had been nominated for the award.)

R.A. Barnhart, Federal Highway Administrator, wrote to Bruce Molnia, association president, "Your outstanding record of achievement, commitment and innovation has made your program a model for ridesharing activities across the country. I wish to particularly commend your outstanding contributions to cost-effective transportation through ridesharing and your assistance and support in having legislation redefined regarding ridesharing operations in the State of South Dakota."

Molnia accepted the award at the Sioux Falls City Commission meeting July 2.

IN MEMORIAM

Jim Gunn, who operated the EROS Cafeteria for nearly eight years died May 4, 1984, from complications of diabetes. Members of the EROS Data Center staff express their deep sympathy to his family.

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(Cont. from page 1 - Information Systems)

Spatial refers to the location of, proximity to, or orientation of objects on the earth and with respect to one another. Locational identifiers are necessary in order to spatially or geographically reference an object or area so that it can be encoded into a computer data base. Spatial locations are used to reference the data (for example, in making a map), and also used in the analysis (for example, in calculation of distances between features).

Landsat data are in digital form and are computer-readable but require locational references using ground control points; other types of information must be digitized from maps so the computer can read them. Map features such as roads, railroads, or streams are represented by lines. Wells or springs may be represented by points, while crop types, soils series and landforms may be mapped using polygons (or areas or zones). There are three basic geocoding techniques: grid cell, polygon, and line, each with distinct advantages and disadvantages. Here, the scientist must select the technique that is best for the analysis.

A second basic phase in the GIS is analysis of the data base which has been encoded by performing computations on the data. Many techniques have been developed to extract or derive useful information from the data base. Greenlee identifies two basic computer analysis methods as surface analysis and overlay analysis. Surface analysis techniques are used to derive information from a single layer of data at different locations within a geographic study area. Overlay analysis methods evaluate several different layers of information at the same geographic location. An example of a surface analysis is the drilling of several test holes across an area to locate different water depths, then interpolating to determine the depth of an aquifer.

An overlay analysis example is a land ownership analysis overlaid by a known mineral deposits analysis, then determining where points on each intersect. For instance, the analysis may show that a point on the land ownership layer is U.S. Federal government Forest Service land and that it is directly over a point that is a known mineral deposit.

The scientist defines the objectives and desired outputs in order to decide on analysis techniques which will accomplish those objectives.

A third phase of GIS processing is obtaining and displaying the results of the analysis in various map and tabular formats. Map-like images can be displayed on a color television monitor, a cathode ray tube (CRT), or produced as paper copy, ink-jet illustrations or as photographic products. Statistics can also be displayed on a CRT or retrieved as paper-copy computer printouts.

EDC's visitors' parking lot looked like a campsite Monday morning, June 25, when 56 motor homes with 109 members of the Foretravel Motorcade Club arrived for a scheduled tour of the facility. During the months of April and May, scheduled tours were provided for nearly 1,300 persons from 12 high schools, 11 colleges, 20 upper elementary and junior high schools, and five convention or club groups. In June the school-group visits decreased, but convention groups and clubs increased with tours given to nearly 500 persons. Tours for school classes (grade five through college), service and civic clubs, convention groups, and tourism groups are scheduled by appointment through the Technical Information Office.

As an example of a project conducted by EDC, the Federal Mineral Land Information System (FMLIS), staff members acquired and digitized data, created a data base, performed analyses, and produced a variety of output data that answered hypothetical questions concerning minerals on Federal lands in the Medford, Oregon, area.

A computer data base was created by digitizing: Bureau of Land Management (BLM) maps that showed surface ownership by Federal agencies, types of mineral rights owned by the Federal government, and Federal lands with mineral development restrictions; USGS minerals maps developed for the Conterminous United States Mineral Appraisal Program; and the USGS Mineral Resources Data System. Roads, counties, and Public Land Survey System data were used in the data base for geographic reference and were also digitized from BLM maps.

Following are some of the questions that were asked of the FMLIS data base:

1. Which Federal agencies own land in the area?
2. How many acres of subsurface mineral rights do particular agencies have?
3. Where are the locations of a particular mineral?
4. Where is mineral development restricted?
5. Where does a particular mineral occur on Federal land, with no restrictions to development, and where the Federal government has the mineral rights?

The answers to these and other questions that the data base answered provided information that now can be used to help formulate policy governing minerals development on Federal lands. Other FMLIS activities currently underway include a pilot project for Alaska and the Silver City, New Mexico, 1:250,000-scale quadrangle. Results will be used to help design an operational, nationwide FMLIS by 1987.

Similar techniques can be used to develop information systems to help solve agricultural land use management problems, to answer urban development questions, to assess and monitor a region's water needs and availability, and to monitor and manage wildlife habitat. And EDC will be in the forefront.

Allen H. Watkins, Chief, EDC, says, "The EROS Data Center and its staff remain confident in its role of adapting advanced technology to critical resource management problems such as feeding the world's hungry and the search for minerals and energy."

Participants in the 22nd International Remote Sensing Workshop spent two weeks in the Black Hills in a classroom setting analyzing Landsat images and other remotely sensed data, left, and in the field checking analyses and correlating ground features with features on the images.

INTERNATIONAL SCIENTISTS ATTEND FIVE-WEEK WORKSHOP

Phyllis Wiepking

The 22nd International Remote Sensing Workshop, which was held at EDC from April 23 to May 25, 1984, focused on the geological and hydrological applications of Landsat data. Ten scientists from Saudi Arabia, Kuwait, Indonesia, and Switzerland attended the five-week course. Their specific interests included mineral exploration, petroleum exploration, water resources, and digital processing and analysis. Your editor was privileged to participate in this very challenging and rewarding educational experience.

During the first week we attended orientation sessions and studied the fundamentals of remote sensing and the Landsat system. The international scientists were professionals in their own disciplines, but none of them were experienced in satellite remote sensing, so the first week was very important to them. Geological and hydrological analysis and interpretation techniques were emphasized in lecture sessions and hands-on exercises conducted by various members of the Technique Development and Applications Branch throughout the second week.

Landsat images over our work or study areas were distributed and we began to do our analyses. The Saudi Arabians had selected areas within their country where they are looking for mineral deposits; our guest from Kuwait chose an area in his country where he was trying to find potential petroleum deposits, and the Indonesian scientist, a hydrologist, was hoping to use the experience and technology he would gain from the course to locate new sources of fresh water, a precious resource in Indonesia. Our young Swiss student selected an area in Africa to study for potential mineral deposits. He explained, "There is only one mine in Switzerland and that's a salt mine." I studied and analyzed images of the northeast part of the Sudan.

We delineated drainage patterns, lineaments, land forms, and land cover patterns on acetate overlays, then attempted to form conclusions about the geology and hydrology of the areas, and the potential for exploration.

The highlight of the workshop was the two-week field trip to the Black Hills. Working with a 1:250,000-scale Landsat mosaic of the Black Hills along with aerial photographs over selected smaller areas, we spent the first week in Custer concentrating on features in the southern Hills and the second week in Deadwood studying the northern Hills. Our schedule on the field trip was a day in a classroom setting studying the Landsat image and doing our analyses on overlays followed by a day in the field checking our analyses and beginning to do interpretations. The field analyses were extremely worthwhile in helping us correlate features on the ground with what we could see on the image.

Some of the most interesting times in the field were the "exercise stops" where we checked specific geologic features with the Landsat images and aerial photographs. As a native South Dakotan, I have always loved the Black Hills and have spent many recreational hours there, but I saw them from a different perspective this time. Hiking through East Pass Creek and seeing for the first time evidence of a fault; standing atop Mount Theodore Roosevelt while our instructors pointed out rocks from Precambrian times, perhaps four thousand million years old; intruded by young, igneous rocks, perhaps only a few million years old; and seeing the whole picture of the Black Hills—the great uplift of granite surrounded by the "Red Racetrack," a valley of red, silty shale, in turn surrounded by the Hogback Ridge, a rim of sandstone cut through by streams and valleys—these are only a few of the many field trip experiences that stand out as particularly impressive.

Our spare time in the Black Hills was spent working on our country images—well, most of our spare time. A very gratifying aspect of the trip was the opportunity to become friends with the international members of the class and to learn many things about their countries' cultures, their religious beliefs, and their love for their families.

David Hastings, lead instructor and coordinator of the workshop, and Larry Batten, a hydrology-geology applications instructor, conducted the classroom and field sessions in The Black Hills.

Our final week back at EDC included sessions on digital processing, geologic data bases, information systems, completion of our country image interpretations and closing reports.

Those brief five weeks were intensive, frequently strenuous, and extraordinarily worthwhile.

EMPLOYEE NEWS

WELCOME ABOARD

Ken Graack had the opportunity to know a bit about EDC before he accepted a position as Data Specialist in Data Management this spring. He worked on logistics for Pecora VIII under an Augustana College Research Institute contract last summer and fall. A recent graduate of Augustana, he had worked in supply at the Veterans Hospital for six years. Ken and his wife, Kathy, a ward secretary in the Intensive Care Nursery at Sioux Valley hospital, have a daughter, Alyssa Faye, 16 months old. He says he enjoys bicycling, reading and especially watching their daughter grow.

Mary Jungling is a new Technical Writer in Computer Services Branch Software Development. Before coming to EDC she was a documentation specialist at Micro Software International, Inc., in Sioux Falls. Mary is a graduate of Sioux Falls College. It's unbelievable, but she has an 18-year-old son, Troy, and a 13-year-old daughter, Amber. Mary's diverse interests include camping, drama and antiques.

Landra Chamberlain is a new roving clerk-typist for several branches at EDC. She holds a degree in horticulture from South Dakota State University and previously worked in greenhouses and for the U.S. Forest Service in Cody, Wyoming. Landra is a recent bride. Her husband, Daniel, works for Jordan Millwork. Her hobbies include camping, fishing, sewing, crafts, gardening, photography, water skiing and cooking.

Dwight Kahler served as a Traffic Analyst in the U.S. Marine Corps in El Toro, California, before becoming a Security Guard at EDC. He attended several Marine Communications Schools while in the service. He and his wife, Pam, are the parents of Eva, age 2, and Tiffany, 1.

Ken Gacke is a recent graduate of Iowa State University at Ames. He lives in his home town, Larchwood, Iowa, and commutes to his job in Software Development, Computer Services Branch. Ken enjoys the outdoors hobbies of hunting, camping, canoeing, swimming and fishing. Reading is another of his pleasures.

Laura Top Huewe, a programmer in scientific applications, worked for the science department at the University of South Dakota while completing her college education. She and her husband, Gregg, were recently married and live in Garretson. She lists water skiing, bike riding, reading, and playing the piano among her major interests.

Cindy Carpenter Covington, recently married to Steve Covington, is employed in Engineering and Development. Cindy is a graduate of Rochester Institute of Technology, Rochester, New York. She enjoys sailing, camping, and bicycling.

TEMPORARY

Darla Larson, **Deb Top**, and **Judy Wirkus** are new temporary hires at EDC. Darla, a photo technician, has worked here intermittently for the past six years. She and her husband, Russ, have two children, Jacob, 9, and Mandi, 4. She is a talented free-lance artist. A number of her works were displayed at the Elks Club during June. Deb is a senior at Dordt College majoring in business education. She is a programmer in the photo lab this summer. Running, aerobic dancing, reading and piano playing keep her busy after work hours. Judy is also employed in the photo lab. She has four children, David, 11; Richie, 9; Michael, 5; and Jamie, 3. Judy's hobbies are sewing, swimming, biking, and roller skating.

STUDENT EMPLOYEES

Five summer hires are on board in the Technique Development and Applications Branch. **Diane Chung**, Los Angeles, attends graduate school at the University of Wisconsin in Madison. She will complete her Ph.D. in forestry in 1986. She is working in the Technique Development Section (TDS) this summer. **Lisa Darling**, Granada, Colorado, is also in TDS. She holds degrees in engineering and mathematics and is working on her masters degree in statistics at the University of Minnesota, Minneapolis. **Nancy Duncan**, Columbia, Missouri, and **Patrick Morgan**, LaCrosse, Wisconsin, are both working in the Bio-Science Applications Section. Nancy is a student at the University of Minnesota, St. Paul, completing work on a masters in forestry, and Patrick goes to the University of Wisconsin, La Crosse, where he is majoring in geography and computer science. **Scott Johnsgard**, who is a summer intern in the Geo-Information Science Section, is majoring in geology at the University of Nebraska in his home town, Lincoln.

Brenda Wilsey, a computer science major from Brandon, and **Joe Robar**, from the Rosebud Reservation, a mechanical engineering major, attend South Dakota School of Mines and Technology. Both are summer interns in Software Development.

Data Management summer interns, all from Sioux Falls, are **Dana Lambert**, a senior at Mankato State University, majoring in computer science and business administration; **Kristen Ortmeier**, who is majoring in geography and cartography at South Dakota State University; and **James Luke**, who is majoring in aerospace engineering at the University of Notre Dame.

New employees working under a USGS student-hire program are **Kimberlee Creaser**, Billings, Montana, who is majoring in computer science and mathematics, and **Karen Zanter**, Freeman, a computer science major, both students at Augustana. Under this program, students must be enrolled in school full time and employed in fields related to their studies. Both are working as computer clerks in Software Development.

Bill Waltz, Dell Rapids, is working as a logistics technician this summer. He is a biology/chemistry major in the premed program at the University of South Dakota.

Sue Powell, Jasper, Minnesota; **Chris Davis** and **John Schmidt**, Dell Rapids, and **Paul Johnson**, Garretson, are doing custodial work at EDC this summer. Sue is majoring in journalism at the University of South Dakota; Chris is taking general studies at South Dakota State University; John is majoring in civil engineering at South Dakota School of Mines and Technology, and Paul is working on his Master of Divinity degree at Luther Northwestern Seminary in St. Paul.

CAFETERIA MANAGER PLANS CHANGES

The EDC Cafeteria has a new manager and will soon be sporting a new look. **Dick Cole**, who came to EDC from managing a similar operation in the Super City Mall in Aberdeen, plans some innovative changes in cafeteria decor and fare.

"We plan to set up a suggestion box for employees' ideas about the cafeteria food and service. Then we'll evaluate the suggestions and implement those changes that we think are worthwhile," Dick said.

Dick doesn't use the pronoun, "we," in an editorial manner. He's speaking of himself and his wife, Jackie; they plan to operate the cafeteria as a team.

"Jackie worked with me in Aberdeen and she's a tremendous asset to me," Dick said. "She has a terrific personality and really enjoys people. She's also

(Cont. on page 6)

(Cont. from page 5 - Cafeteria Manager)
experienced in restaurant operations."

Some of the changes already planned are a bright new paint job and the addition of a salad bar in the near future.

Dick is originally from San Diego where he was involved in the construction business, building apartment complexes and private homes. He and his wife, the former Jackie Determan, moved to Sioux Falls, her hometown, about eight years ago when he began to have problems with his eyesight. He did some construction contracting for about a year until his eyesight worsened.

He attended Nettleton College, graduating in Business Management and Accounting in 1980. About a year ago he accepted the position in Aberdeen through the Society for Visually Impaired. When he was informed of the vacancy at EDC he was glad to accept it for several reasons.

"I felt that this is a real challenge, but perhaps even more important, it was an opportunity for us to move back home. We rented our house in Sioux Falls when we moved to Aberdeen, so now we're back in our own home."

Dick and Jackie have three daughters, Shannon, 11; Shawn, 9; and Kelly, 2. Jackie's sister, Jan Nelson, is an artist in the Technical Information Section.

EROS PEOPLE

Larry Kasten, Officer in Charge, Commercial Guard, Inc., recently completed the intensive, two-week South Dakota Law Enforcement Officers Standards and Training Commission's Training Course in Pierre. M.T. "Woody" Yaroch, EDC's Administrative Officer, said, "The unique thing is that Larry did this on vacation time at his own expense. He also has completed the South Dakota Department of Health's First Responder Course in cardiopulmonary resuscitation and emergency cardiac care. EDC is fortunate to have such a highly trained person as chief of our guard service."

Freddie Simon and **Leo Braconnier** have accepted positions with General Electric Company at Valley Forge, Pennsylvania. Freddie, who has recently been on part-time status while completing her college education, came to EDC as a USGS employee shortly after the Center opened. She was Chief of Data Management Section before returning to the classroom. Leo came on board as a General Electric contract staff member in 1972 and joined the USGS in 1974. He has been Chief of Data Services Offices which includes User Services and Data Management. Freddie and Leo were married in 1976. They will be greatly missed by their colleagues and friends and we wish them much happiness and success as they embark upon new careers and a new life in Pennsylvania.

Judy Collins, former Center Scene EDCEA reporter and 10-year EDC employee, left to become a supervisor for Microfilm Services Section, Technicolor Government Services, Department of Treasury Operations, Washington, D.C. Herb Taylor, who heads the operation, said, "Judy is doing an excellent job! She supervises a section that handles over 4,000 requests daily for microfilm copies of checks." Herb's operation's gain is truly EDC's loss.

EMPLOYEES AWARDS

Ron Beck was honored with a Civic Action Award for four years of superlative work with the United Way Campaign.

Ken Boettcher was presented a Cost Savings Award for his suggestion of developing an in-house capability for printing color-coded sleeves for archiving EDIPS-produced film chips.

Donna Scholz was recognized for her successful completion of EDC's Management Training Program. Donna is the first of the participants to complete the program.

Greg Hanson was honored for his work with the design of the Remote Information Processing System (RIPS) Baseline Documentation layout. He did the design work, wrote the procurement and monitored the contract's completion.

Eric Holm was recognized for his work in completing the RIPS system design, developing an implementation plan for the RIPS application modules and designing and carrying out a thorough testing of the completed RIPS system.

Randy Sunne was presented an award for his accomplishments with Production Support activities in reducing a large Automatic Data Processing workload.

Rich McKinney was recognized for the organization and leadership of the Geometric Registration Project Group which contributed greatly to the success of the system which has become a core activity to support registration, mosaicking, and other image mapping activities at EDC.

Joy Peterson, David Meyer, and **Steve Ryan** were presented awards for their accomplishments and contributions to the successful development of the EDC Geometric Registration System.

Ron Feistner was honored for his exceptional work and accomplishments on the Landsat 5 Software Development Project.

Peggy Keegan was honored for her excellent work record, conscientious attitude, and the sustained high level performance of her secretarial duties which included increased responsibilities.

EMPLOYEES ASSOCIATION

Inspecting EDCEA's Teeth, Part I

David Hastings

From time to time members of the EDCEA Board are asked about the Association's finances. Despite the fact that the books are open to inspection, people seem to prefer to have the horse tell them than to inspect the horse's teeth themselves. One tooth that rarely gets mentioned is the Good Will Committee.

The main purpose of the Committee is to remind members of the EDC community that we're thinking of them at certain important times - primarily when a family member is hospitalized or confined at home for an extended period, or when there is a death in the immediate family. These remembrances usually come in the form of flowers and/or a card sent to the hospital, home, or funeral parlor. On a much happier note, the birth of a child is celebrated with flowers for the family. The most recent gift was to an EDC family that adopted a baby.

This may seem the least that we can do, but even this can cost more money than most people think. Over the past year, EDCEA has spent $628.12 for remembrances through the Good Will Committee. In April alone, $123.93 in flower bills came due. This contrasts with a typical take of about $100 from a raffle, so one can now see where the raffle money goes.

There have been several events in EDC's past that have brought requests for more substantial help from EDCEA. Much as the Association would like to help, it does not have the financial resources. In many of these cases informal assistance has been provided.

The Good Will Committee is largely a one-woman show. **Mary Lou East** has chaired the committee since April 1982, having taken over from Darla Erb. Mary Lou is one of a small corps of EDCEA's most valuable people, those who provide continuity and efficiency in managing an activity over an extended period.

Mary Lou requests your support. If you know of a hospitalization, extended confinement at home, death, or birth, please let her know. The grapevine usually works to inform her of something she should act on, but direct information from a co-worker always beats the grapevine.

UPCOMING EDCEA EVENTS

Mid to late August (?) - The 2nd Irregular EDC Chili Cookoff and Annual Field Day is anticipated for corn harvest time.

Late August - "Back to School" Raffle.