

The GTRI Connector

GTRI FSD Accounting Has Moved

GTRI FSD-Accounting has a new home: 345 CRB. You can reach them at the same phone numbers you used before their move.

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May-June 1997

GTRI Requests Continuation of Operations under PMC and APLC

Editor's Note: This article outlines the status of the FAR decision as of noon Thursday, June 12. Check your e-mail to stay abreast of the latest developments.

As of June 12, the cost recovery system GTRI will use in FY 98 remained undetermined.

We had proposed to convert to Federal Acquisition Regulations (FAR) section 31.2 / Commercial Cost Principles. At the end of May, given the approach of July 1 and continuing questions and concerns from the Office of Management and Budget (OMB), it initially appeared to GTRI and the Office of Naval Research (ONR) that approval of the request would not be granted in time to use FAR/Commercial Cost Principles during FY 98, said Barbara Walsh, manager of GTRI Fiscal Services (FSD).

However, conversion for FY 98 may remain possible, following a June 5 meeting of GTRI and ONR officials with OMB, Walsh noted.

"We will prepare for that possibility, while at the same time minimizing confusion to the research and support staff," she said on June 6. "We may not know which cost recovery system we will have next year until the very last minute."

GTRI is preparing for every possibility, and as a result is simultaneously seeking permission from the Office of Naval

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Operation Heli-STAR demonstrated that, with the proper technology, helicopter transportation in urban areas can be successful and useful. To read more about Heli-STAR, turn to page 4. (Photo by Bob Cassanova)

Employees Honored for Excellent Work

By Lea McLees, RCT

Applause and congratulations are in order for three of our GTRI colleagues who recently were recognized for their outstanding performance in research support!

Judy Fitzpatrick (MAPS), **Brenda Hill** (FST) and **Judy Parks** (SDL) each were honored at the 1997 Faculty Honors Luncheon on May 22.

Following are a few details on the excellent work these colleagues perform for GTRI.

Judy Fitzpatrick

Judy, a project support analyst, was nominated for her "exceptional expertise and consistently superior job performance" by Ed Eagar, director of the Arlington Research Laboratory.

"I have relied on Ms. Fitzpatrick's finan-

cial skills and contract management judgment from the first day of operation of the Arlington, Va., office," he wrote in her nomination letter.

A GTRI employee for just less than 10 years, Judy simultaneously supports ELSYS and ARL, the largest and smallest labs in GTRI. This includes handling and reporting for approximately \$1.5 million in E and H accounts, processing about 50 proposals and

80 redos in the last year, supporting accounts for two high profile Intergovernmental Personnel Agreements and preparing summary financial reports for the RCT, FSD, RSD and PST support groups.

For ARL alone, she handles all purchases and contract management functions supporting a budget of approximately \$3 million in A accounts.

"In our almost five years of operation,

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Judy Fitzpatrick

Observed & Noted

This month we introduce members of the Baker/O'Keefe MAPS group. *Meet your colleagues on page 2.*

GTRI's Cobb County Facility has a new neighbor. *Meet "Sweet*

Eloise" and the GTRI colleague who welcomed her on page 3.

The summer 1996 Heli-STAR project showed that helicopters are a viable transportation and cargo

alternative. *Find out what researchers learned on page 5.*

The SHETD branch of EOEML recently held an Earth Day open house. *Read about several research projects featured at the event*

on page 5.

APO and lab representatives are planning a GTRI Industry Day. *Learn more by turning to page 5.*

Joe Harrison enjoyed a warm re-

irement sendoff from GTRI recently. *Learn about his future plans on page 6.*

GTRI's second Research Scramble Golf Tournament was enjoyed by all! *Turn to page 7 to*

read about the participants and find out who won.

The back page is filled with professional, personal and personnel news. *Flip The Connector over for the latest information.*

The GTRI Connector is on line at <<<http://www.gtri.gatech.edu/connector/ctwelcom.htm>>>.

News & Notes

Meet the Management and Project Support Group

This month we continue meeting members of the Management and Project Support (MAPS) group. Under the direction of group manager Carolyn Mahaffey, the MAPS group provides centralized business and accounting support to all of GTRI's labs. The Baker/O'Keefe MAPS group is responsible for supporting labs in the Baker and O'Keefe buildings. This talented bunch, led by manager Vickie Fennell, assists with proposal preparation and provides summary data on laboratory performance. The group also supports projects directors with all of their administrative needs from tracking deliverables to managing overruns.

Vickie Fennell is manager of the Baker/O'Keefe MAPS group. She has worked with GTRI since 1981, when she worked in the Electronic Systems Laboratory (ELSYS) and later in the Systems Development Laboratory (SDL) at the Cobb County Research Facility (CCRF). In 1992, Vickie joined the MAPS group. As MAPS manager, Vickie oversees financial and administrative support for the research faculty and lab management of the Electro-Optics, Environment and Materials Laboratory (EOEML). She also is serving

her final term on the campus Administrative Network Advisory Group, and has just been elected to Georgia Tech's Faculty Benefits Committee.

Vickie has a degree in business from West Georgia College in Carrollton and a master's degree in business administration from Kennesaw State University. She grew up in Paulding County, Ga., and recently moved to the Cross Creek area of Atlanta. As part of a big family, Vickie enjoys getting together with family members in her free time. Her brother, Terry Tibbitts, is a senior research engineer in ELSYS. She also loves the outdoors, especially walking and enjoying nature.

A project support analyst in the Baker/O'Keefe MAPS group, **Marsha Barton** has worked at Georgia Tech for 14 years. She started her career at Tech in 1983 as a clerk typist at the Physical Plant, and later transferred to GTRI's personnel department as Personnel Assistant I. In 1988 she transferred to Cobb County as an administrative assistant to the GBR Research Program under the direction of John Nemeth and Mel Belcher. In 1990 she went to work for the MAPS group at Cobb County and later transferred to the Baker/O'Keefe group on campus. Marsha supports the Safety, Health and Environmental branch of EOEML. She pre-



Vickie Fennell



Marsha Barton



Kimberly Toatley

pares proposals and budgets, manages financial data and performs other administrative duties as necessary. In addition, she acts as the liaison between GTRI and Continuing Education's public offering and contract courses.

Marsha was born and raised in Columbus, Ga. Her mother, Betty Hunnicutt, worked in the School of Civil Engineering on campus and retired after 19 years at Tech. Marsha and her husband, David, live in Dallas, Ga., where she owns and operates her own floral design business. Her daughter, Melissa, lives in Miamisburg, Ohio, with her family. Marsha's son, Bryan, is a pitcher for the Houston Astros farm league, the QuadCity Bandits, in Davenport, Iowa. She also has three stepsons, Matt, Michael and Jason, who live in Cartersville and LaGrange, Ga. Marsha is the proud grandmother of an 18-month-old grandson, Alex, her "Precious Darling."

Kimberly Toatley is a project support analyst for the Baker/O'Keefe MAPS group.

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SELECTED APRIL 1997 AWARDS

Title	PI/Laboratory	Sponsor	Funded Amount
Development of Dial Finite Element Model for 3-Point Bending Test Article to...	Dorris, W. (AERO)	Lockheed Aeronaut. Sys. Co. - Ga.	\$ 20,000
Task A3: Atlanta Short Haul Transportation System	Stancil, C. (AERO)	SAIC	87,149
EC Test & Eval. Infrastructure Improvement & Mod.	Eagar, W. (ARL)	U.S. Air Force	1,168,750
Internetwork Security Engineering	Cramer, M. (ELSYS)	Goodyear Tire & Rubber Co.	40,000
B-1B Defensive System Upgrade Program (DSUP)	Masse, A. (ELSYS)	Boeing Aerospace Co.	100,000
Completion of Pre-End Phase			
ALR-69 Re-Programming Support Using A PC-MLV	Sands, J. (ELSYS)	U.S. Air Force	50,000
Compatibles Notebook Computer			
SADS IIR Threat Instrumentation	McDougal, G. (ELSYS)	U.S. Air Force	675,408
Software Integration Lab (SIL) Data Support	Rohling, G. (EOEML)	Lockheed Sanders Inc.	174,936
Analysis & Assessment of U.S. and Foreign Measurement Capability of...	Harris, H. (EOEML)	Gomez Research Assoc.	110,000
Reliability Analysis & Product Improve. Supp. for HBTS	Harris, H. (EOEML)	U.S. Army	47,599
Software Process Improvements	Miller, M. (HRO)	U.S. Army	71,981
High Level Architecture Testing & Support Phase III	Loper, M. (ITTL)	U.S. Army	647,746
Executable Protocol Specifications - FY 97	Butler, W. (ITTL)	U.S. Army	79,931
MOBCAP Sport	Wilson, B. (ITTL)	U.S. Army	298,488
SWBS Phase 4 Continuation	Pennywitt, K. (ITTL)	Logicon Eagle Technology	488,702
5.8 GHZ Band DSRC Equipment Test Performance Analy.	Harvey, B. (ITTL)	ARINC Corp.	21,000
Search & Rescue Automation	Pyles, J. (ITTL)	U.S. Air Force	24,996
RADSL Digital Video Delivery Demonstration	Dunn, B. (ITTL)	MPhase Technologies	25,953
Dev. of CAD Tools for Power Estimation in Continuous-Time & Switched-Capacitor	Casinovi, G. (ITTL)	U.S. Air Force	96,836
Missile-on-a-Mountain Ground Mounted Seeker	Roberts, R. (SDL)	Electronic Warfare Assoc.	1,187,407
TAR Antenna Repair	Muzio, A. (SDL)	U.S. Army	20,351
Testing & Evaluation	Roberts, R. (SDL)	Manufacturing Technology Inc.	27,000
Advanced Airborne Interceptor Simulator (AAIS)	Roberts, R. (SDL)	Northrop Grumman	174,131
Klystron Amplifier Evaluation Study	Ewell, G. (SDL)	U.S. Government	150,000
Programmable Valve System Electromagnetic Exposure Environments	Herkert, R. (SEAL)	Johnson & Johnson Prod. Inc.	29,000
H-60 Tuneable Antenna Test & H-53 EMV Testing	Millard, D. (SEAL)	U.S. Air Force	51,000
Electromagnetic Environmental Generating System	Clark, D. (SEAL)	U.S. Navy	100,000
Radar Hardware Development Analysis	Belcher, M. (SEAL)	U.S. Army	1,674,875
BCIS EMID Support	VanderMeer, W. (SEAL)	Fibertek Inc.	61,631
Electronic Protection Assessment Analy. Tech. Develop.	Morris, G. (SEAL)	U.S. Air Force	65,000

GTRI Cobb County Facility Gets New Neighbor: "Sweet Eloise"

A B-29 bomber came to its final resting place at Dobbins Air Force Base on May 6.

The old Bell plant in Marietta produced hundreds of these four-engine aircraft during World War II. Today, the Bell plant is Lockheed-Martin — and is located right across the street from GTRI's Cobb County Research Facility.

Rob Michelson (AERO) was invited to represent Georgia Tech at the dedication ceremony for the World War II B-29 Superfortress known as "Sweet Eloise" that is now enshrined at the entrance to Dobbins. Only about twelve B-29s have been restored to date, and Georgia can be very proud to have one of them.

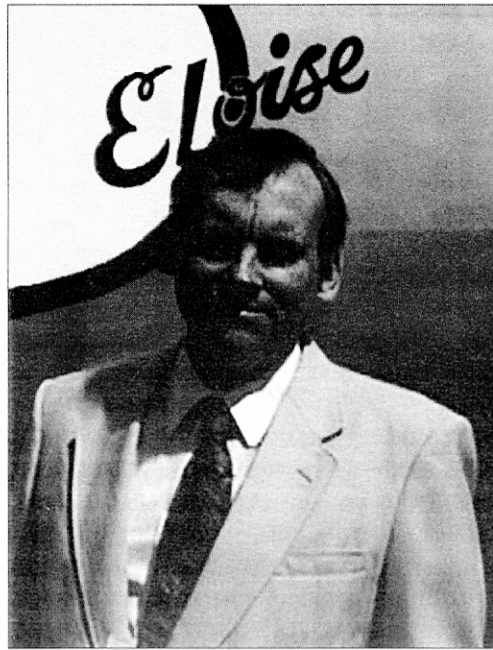
Gov. Zell Miller — whose mother worked in the Bell plant building B-29s during the war — spoke at the ceremony. Georgia Legislature members

and local officials from Cobb County and the City of Marietta were on hand, as were some of the original crew members for this particular Superfortress. Also attending was Eloise Strom, for whom the plane was named. She is the mother of Coy Short, the president of the B-29 Superfortress Association, who organized the restoration effort.

The B-29 on display was not built at the Marietta Bell plant — it was made in Wichita, Kan. The plane saw action in the Pacific; after the war, it was used as a spy plane over Soviet bloc countries. It finally was mothballed in South Carolina, where it ultimately was severely damaged by Hurricane Hugo.

Enter the B-29 Superfortress Association, established in conjunction with the Atlanta Chamber of Commerce Military Affairs Council — Michelson is a member of the council. With help from Warner Robbins Air Logistics Center, Dobbins Air Force Base and many other groups and individuals, the B-29 was separated into seven parts. Each part was shipped to a different Georgia vocational school and refurbished by students. The aircraft's nose art was painted in WW II-era style.

After many months of work, the refurbished pieces were reassembled on their



current site at the entrance to Dobbins Air Force Base. You now can see the plane from Ga. 41 as you drive past Dobbins.

Thanks to Rob Michelson for sharing this great story with us! If you have an idea for an article, call Lea McLees at 404-894-4259 or send e-mail to lea.mclees@gtri.gatech.edu.

News & Notes

Rob Michelson stands in front of "Sweet Eloise" at its May 6 dedication ceremony. (Photo courtesy Rob Michelson)

Employees

From page 1

we have never had a late deliverable — because Ms. Fitzpatrick watches, warns and ensures action!" Eagar said.

Judy's specific accomplishments include:

- Representing Eagar and ARL in day-to-day management support actions on campus.

- Helping Eagar develop ARL's successful financial and contract management plan.

"This plan is often referenced by our customer as the benchmark for efficient and effective contractor support activities," Eagar said.

- Expertly advising on equipment purchases, so that ARL is viewed as a premier management information systems facility.

- Advising on contract negotiations, resulting in a best value contract for the U.S. Air Force and ample opportunities for GTRI to provide additional technical support.

- Successfully coordinating all campus interfaces to ensure a smooth, efficient transition for Arlington from a branch of ELSYS to a Research Operations Group in July 1995. A year later, Judy accepted the additional responsibility of serving the two labs, ELSYS and ARL, without delays or gaps in support.

"She consistently devotes 110 percent of effort to each, ensuring faultless results all of the time," Ed said.

Judy credits her colleagues for their hard work, too, and noted that she is happy to be recognized.

"I am very pleased to be awarded this honor, and hope to be even more efficient and effective in the years to come," she said.

Brenda Hill

Brenda Hill, facilities services manager, is an 18-year veteran of her department. She has successfully taken on increasingly

higher levels of responsibility throughout the years — and that's why former GTRI director Richard Truly selected her to coordinate Olympics facilities planning for GTRI and the Research Controlled Area (RCA).

"It is principally for her performance in this capacity that I nominate her for this award," Truly wrote in Brenda's nomination letter. "She met and exceeded all my expectations in the planning and implementation of research operations during the 1996 Summer Olympics."

Brenda's work, combined with the outstanding efforts of GTRI's Research Security Department (RSD), contributed to Georgia Tech's ability to continue contracted research during the Games, when access to campus was limited. Specific highlights of her work include:

- Attending campus-level planning and informational meetings and providing feedback and guidance that GTRI and other RCA research units needed to plan for the Games.

- Representing research needs on the RCA Task Force at the campus level — critical areas that were successfully planned for included boundary crossings, deliveries, transportation and parking.

- Scheduling and conducting meetings with planners as necessary, providing individualized instruction and guidance as needed and reviewing and offering constructive comments to unit plans.

- Actively helping facilitate badging of research staff and faculty; she was instrumental in providing for transportation to badging sites.

- Identifying needs and issuing transportation and parking permits.

- Once the close-down period began, she turned her office into a service center for employees, Truly said.

"She worked with individuals to swap parking areas and to swap MARTA passes for parking passes," he said. "She person-

ally rode shuttle buses and visited access gates to identify problem areas and make improvement suggestions to ACOG officials."

Brenda also spent time at access gates to observe the problems employees were experiencing and to make improvement suggestions to ACOG officials and volunteers. She became a focal point for delivery problems, having given her pager number as a source for vendors to contact if they had difficulty making deliveries.

"That pager brought her to the phone from restaurants and on several occasions brought her to campus during off-duty hours," Truly said. "All this was beyond the call of duty — I had asked her only to help PLAN for the Olympics. However, this was the type of dedication I had come to expect from Brenda Hill, and that is why I selected her for this very important job."

Judy Parks



Judy Parks

Judy Parks, division secretary and project administration support team member in SDL, has redefined her role by taking on a variety of tasks, says Jeff Sitterle, SDL director, who nominated Judy for an award.

"Important is the fact that while fulfilling her responsibilities as division secretary, she has truly become an integral part of the XM-15 and XM-43 Project Teams under major contracts with the U.S. Army," Sitterle wrote of the 6 1/2-year employee in her nomination letter.

Specific accomplishments include:

- Learning desktop publishing, computer-aided design and graphic art design to help produce support documentation required for the XM-15 and XM-43 projects. These two efforts require detailed documentation that adheres to strict fed-

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Focus on Research

AERO's Chuck Stancil (standing) and Cliff Echert work with the system that received data from helicopters participating in Heli-STAR. (Photo by Gary Meek)

An Olympic Legacy

Heli-STAR Tests Vertical Flight Transport in Urban Areas

By John Toon, RCT

A research and development project conducted in Atlanta during the 1996 Centennial Olympic Games could help open the door for expanding helicopter transportation in crowded urban areas — improving air traffic control in the nation's congested skies.

Air traffic control radar now is the primary means of monitoring aircraft in flight, but ground clutter caused by tall buildings and other obstructions prevents tracking low-altitude flights in urban areas. That has restricted development of helicopter transportation in cities where clogged highways would make vertical flight an attractive alternative to ground transportation for passengers and cargo.

But the summer 1996 success of Operation Heli-STAR (Helicopter Short-Haul Transportation and Aviation Research) may help change that. Supported by the Federal Aviation Administration (FAA), the project for the first time showed that communications, navigation and surveillance (CNS) equipment based on the Global Positioning System (GPS) could reliably track helicopters operating in large metropolitan areas.

"Operation Heli-STAR showed that the technology is here now to do low-altitude traffic control in urban areas," said Charles M. "Chuck" Stancil, manager of the Aerospace Sciences Branch of the Georgia Tech Research Institute (GTRI). "Everything that we planned and designed for the system worked. We could track the aircraft, communicate with them, send weather information, and even change the mission just by using digitized messages."

How Did Heli-STAR Work?

Some 60 helicopters participated in Heli-STAR during the Games period in Atlanta. The aircraft used on-board GPS systems to determine their own positions, then reported that information every few seconds to a central ground station through a very high frequency (VHF) data link. Based on a system of earth-orbiting satellites, GPS provides extremely accurate position information — and is not affected by the ground clutter that prevents use of radar.

In addition to providing information for ground controllers, Heli-STAR also sent data about all project aircraft operating in the area to multi-function displays installed aboard many of the helicopters. This information helped pilots watch out for nearby air traffic. The displays also included information on flight routes and obstacles such as transmission towers.

"This was the first time this technology has ever been used in this way, and it was very successful," reported Stancil. "Heli-STAR was operating in a real-world situation, carrying real cargo, serving real customers and working in an operational environment guided by air traffic controllers."

On its busiest day, the project processed 83,000 aircraft position reports between 6 a.m. and 10 p.m., tracking approximately 60 helicopters engaged in a wide range of cargo delivery and public safety missions.

Heli-STAR development began in 1994 with concerns about how the crowd of Olympic visitors coming to Atlanta might affect delivery of high-value cargo and provision of public safety services during summer 1996.

Heli-STAR used 11 heliports around the Atlanta area to accommodate a flight schedule dictated by cargo shippers' needs. Routes were established to minimize noise and avoid restricted airspace around Olympic venues. On the ground, sophisticated equipment used bar-coding and an extensive computer network to track cargo as it moved through the transportation system to its final destination.

Heli-STAR was intended to demonstrate the feasibility of the GPS-based equipment and to gather research information for development of future large-scale helicopter operations. Information obtained on cargo volume and costs should aid economic decisions that will have to be made for such systems.

"The lessons learned are really a collection of planning tips that would enable anybody else to do this anywhere in the continental United States, Alaska or Hawaii," Stancil explained. "You can literally set up a checklist based on what came out of Heli-STAR. If you do all these things, you will have touched all the bases necessary."

Among those key "bases" are state and local governments, which regulate heliports, zoning and related issues. Other key groups include the local aviation community, law enforcement agencies and the public (see related article, p. 8).

What Was Learned?

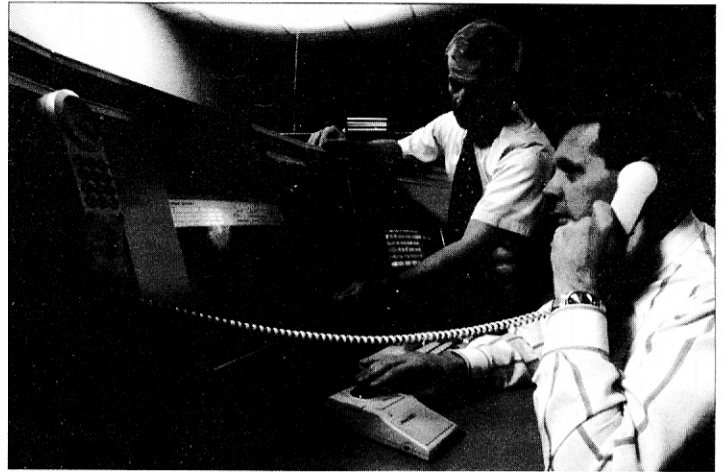
Though operations worked largely as planned, Heli-STAR carried less cargo than anticipated. Two factors combined to reduce cargo transportation.

The first was the absence of the gridlock that had been forecast for Atlanta's highways. "The shippers found that traffic was much lighter than everyone had expected, and therefore they could move things faster using their trucks and courier vehicles than they would have under normal conditions," Stancil noted.

The second factor involved security arrangements surrounding Olympic visits by the president and vice president. The "security bubble" over these dignitaries shut down portions of Heli-STAR four times during the Games period, disrupting cargo deliveries and causing some shippers to lose confidence in the system.

Stancil believes the success of Heli-STAR leaves developers of urban vertical flight programs with mostly non-technical issues to resolve.

"It's really a public perception issue now," he said. "The technical and engineering issues are no longer showstoppers because Heli-STAR demonstrated that you can control aircraft in a safe manner in an



urban environment. The problem is how the public perceives helicopter activity in close proximity to where they live and work."

The two most important issues there involve noise and safety.

Heli-STAR contributed to the resolution of noise concerns by showing that helicopter operations can be "good neighbors." A central office established to field complaints got 43 calls during the Games, none of them involving Heli-STAR aircraft.

"There was no distinguishing public response to the presence of helicopters, which is important in light of previous suggestions that people would have an aversion to helicopters," Stancil said. "We were very careful in how we designed routes, chose the altitudes and specified the flight patterns."

GTRI researchers also gathered extensive information about the acoustic contours surrounding two of the heliports before and during Heli-STAR operations. That information will be helpful in predicting the noise impacts of future programs.

Stancil believes the perfect safety record established by Heli-STAR during the Games period should also go a long way toward resolving safety concerns.

What's Next?

For the future, researchers must continue to refine procedures and the user interface for the navigation equipment. They will also have to determine the limits of the system's ability to monitor aircraft.

"The next step will be to integrate this system into a precision flying operation in which we can understand the limits of safety and utility with regard to the GPS technology and the benefit it may provide for vertical flight in urban areas," Stancil said.

Beyond expanding vertical flight in urban areas, Heli-STAR helped lay the foundation for an improved national air traffic control system that would use GPS technology for monitoring the thousands of commercial aircraft criss-crossing the nation's skies.

Aircraft must now follow a rigid system of flight routes established decades ago that do not always offer the most optimal paths. GPS technologies could one day liberate aircraft from those pre-set routes, allowing "free-flight" that would reduce both fuel consumption and flying time.

"What this could do is take radar out of the primary mode of air traffic control and substitute CNS technology on the ground and in the air that would enable the aircraft to take off, point its nose in the direction it wants to go, and go," Stancil explained.

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Safety, Health and Environmental Technology Division Holds Open House

By Lea McLees, RCT

Friends and colleagues from on and off campus gathered in the O'Keefe building on April 23 to learn more about the work of EOEML's Safety, Health and Environmental Technology Division (SHETD).

Approximately 100 people attended the Earth Day Open House to learn more about SHETD's work. Among the off-campus organizations represented were the Environmental Protection Agency's Region IV, the Georgia Environmental Protection Division, industry representatives, consultants, insurance loss control professionals and Cobb County Schools.

"I thought the open house would give us a chance to let people see for themselves what we're all about," said Ken Johnson, who leads SHETD. "I was very pleased to see interest from sponsors, but even more to see the level of interest from guests from GTRI and other units on campus."

Among the research projects and outreach programs featured were the plasma torch, technical assistance programs and a study of musculoskeletal disorders among VDT operators. Training courses on subjects ranging from management of underground storage systems, asbestos and lead to the role of environmental site assessments in property transfers were highlighted, as was the use of integrated optics for occupational, environmental, biological and chemical sensing.

Following are detailed summaries of four additional projects at the open house:

Eco-Diagnosis: This computerized self-assessment tool could eventually help small manufacturers deal with environmental issues. It prompts users with questions that address environmental regulations and non-regulatory topics such as pollution prevention, product life-cycle issues and environmental management. It also provides action plans for making improvements at a facility, says Roc Tschirhart (EOEML).

"We also are building a resource section into it that includes useful names and phone numbers of regulatory agencies and nonprofit organizations," he said.

The work is funded through the National Institute of Standards and Technology's Manufacturing Extension Partnership. Eco-Diagnosis is being field tested now.



For more information, contact Roc Tschirhart at 404-894-8045 or at roc.tschirhart@gtri.gatech.edu.

Foundations for the Future: This is a collaborative effort in Georgia including university-based telecommunications expertise, learning-training expertise and industry know-how that will maximize technology use in schools with training and support to deliver the highest return to all students. Additionally, it will showcase the technologies of today and tomorrow. Foundations for the Future will provide a professional training facility, a model classroom, a learning technology testbed and a technology transfer center. The facility will be located in the new Georgia Public Broadcasting building on 14th Street. The core team of Foundations for the Future includes Georgia Tech Research Institute, Morris Brown Research Institute, the University of Georgia and EduLinc, an industry liaison. AT&T will provide \$2 million in funding over three years.

For more information, contact Claudia Huff or Jeff Evans at 404-894-3941/Huff or 404-894-8245/Evans, or send e-mail to claudia.huff@gtri.gatech.edu or jeff.evans@gtri.gatech.edu.

Injury/Illness Analyst: Under development for the Occupational Safety and Health Branch's OSHA 7(c)(1) Consultation Program, this software analyzes a company's employee injury and illness data. It can present the data by year or by type of injury, and can detail the costs of injuries, as well. When it's complete, the program eventually will be distributed throughout the Southeast to EPA Region 4 consultation programs for use with CASH — Comprehensive Assistance in Safety and Health — companies, said Bryan Black and Bob Brems (EOEML).

"CASH is a new project being piloted in Region 4, and it involves a multi-year relationship with client companies," they said. "The original intent was to help consultants on multi-year CASH projects, but this also has potential commercial possibilities."

For more information call Bryan Black or Bob Brems at 404-894-2648/Black or 404-894-8087/Brems or send e-mail to bryan.black@gtri.gatech.edu or bob.brems@gtri.gatech.edu.

Community-Based Environmental and Health Protection Program: Municipalities, communities and organizations can call on Georgia Tech to help them with community-based environmental and health protection issues. Researchers can identify and assess suspected brownfield sites, and facilitate initial organizational meetings with community members and community development organizations. Geographic Information System databases of information pertinent to these sites can be established and maintained; a foundation can be laid for community involvement in redevelopment's technical aspects via job training and educational programs. Researchers can evaluate corrective action alternatives for the property and assist in long-range land use planning and economic development in communities, as well.

"This program is one way to include com-

munity members as active research partners," says Eliesh O'Neil Lane. She and Bob Schmitter are working on the project.

For more information call Eliesh O'Neil Lane or Bob Schmitter at 404-894-8044/Lane or 404-894-8064/Schmitter, or send e-mail to eliesh.lane@gtri.gatech.edu or bob.schmitter@gtri.gatech.edu.

GTRI Industry Day Scheduled

Industry representatives from around Georgia and other areas of the United States will learn about GTRI and Georgia Tech at GTRI Industry Day, scheduled for June 24 at the GCATT Building on 14th Street.

The approximately 75 guests will get an overview of GTRI from Gerald Smith, interim director of research operations; learn about GTRI's economic impact on Georgia; and see technology demonstrations by our researchers. The day will conclude at 1 p.m. after a luncheon address by a Georgia Tech representative, said Tom Horton (APO).

"Industry Day will showcase GTRI as an applied R&D resource for industry, within the context of our role in the larger Georgia Tech community," Horton said.

Lab representatives involved in planning GTRI Industry Day include Ron Bohlander (ITTL), Neal Alexander (SEAL), Kathy Schlag (ELSYS), Cliff Eckert (AERO), Charles Wilson (SDL), Ron Smith (ARL), Dan Parker (HRO) and Rich Combes (EOEML).

The event is sponsored by GTRI's Advanced Programs Office, and is being coordinated with other campus units such as the Georgia Tech Foundation, Corporate Liaison, the Economic Development Institute and the colleges.

For additional information, you may contact lab representatives, or contact Tom Horton at 404 894-0239 or tom.horton@gtri.gatech.edu.

Meet

From page 2

She is on a temporary assignment to provide administrative support to the \$6 million SIIRCM-CMWS project. In this capacity, Kimberly manages the financial details of the project, handles travel arrangements, schedules meetings and writes monthly reports. Before she began work on this project she supported EOEML, where she was responsible for preparing proposal budgets, administering projects and preparing monthly reports for two divisions. She also assisted in the preparation of the EOEML Lab Review package for Director Trent Farill.

Kimberly came to Georgia Tech in 1985 as a student. After earning a bachelor's degree in management, she worked as an Accountant II in research accounting for three years. In 1992 she went to work in the Office of Information Technology (OIT) as the site license manager for the University System. She left OIT three years later to join the MAPS group. When she's not at work, Kimberly is busy pursuing a master's degree in business administration from Georgia State University and working as a Mary Kay beauty consultant.

Focus on Research

SHETD employees welcomed on-and-off campus employees to their Earth Day Open House. (Photo by Lea McLees)

News & Notes

Support Services Makes Changes

This article corrects one that ran in the April issue. The memo from which the April article was taken contained several errors.

The Support Services Department has consolidated and realigned assignments to better use its resources and serve its customers. Following is a quick summary of contacts for your Support Services needs.

Deliveries

Deliveries have been combined into one reporting chain under Brenda Hill. Brenda will continue to be manager of Facilities Services. The added functions include mail delivery under Teddy Reed (formerly reporting to Evan Chastain), and the shipping and receiving warehouse under Billy Boner (formerly reporting to Martha Farley). Reed manages mail distribution with added functions of courier service and some ship-

ping and receiving activities at the Cobb County Facility. Boner manages shipping and receiving. New responsibilities for him include staging (movement and storage of office furniture to include office moves, etc.) and staging/delivery of surplus equipment. Total responsibility for returning defective or unneeded goods is assigned to Boner's unit. Pickup and delivery of electronic equipment for repair and calibration for the Instrumentation and Calibration Team also will be performed by Boner's unit after a pilot study to develop the process.

Administration

Administration for SSD has been consolidated into one unit reporting to Brenda Hill. The Facilities administrative unit handles all administrative support for the department, as well as operational administrative support for Facilities (such as the help desk, work order assignment and tracking, etc.) DeeAnn Reese is heading this administrative unit.

State Property

Paul Hawley has been reassigned

from Research Property to Facilities, reporting to the administrative unit. As he has in the past, Paul supports GTRI units' state property control needs. He also will administer/coordinate/manage the processing of surplus state property. This is an expansion of his current duties in this area. He is coordinating the GTRI vehicle fleet for DeeAnn Reese.

Facilities Maintenance

Rusty Embry has direct supervision responsibility for all maintenance workers, an expansion of his duties from only supervising the maintenance workers at Cobb County. His supervision of the campus workers is in an acting capacity. The long range plan is to fill the campus position either from within GTRI's current workforce or through a future new hire.

Supply Services

Martha Farley continues to manage the support of acquisition of goods and services for GTRI. Management of property leases is assigned totally to Supply Services rather than splitting this responsibility between Facilities and Supply Services.

Joe Harrison Thanked for Dedication and Support

By Joey Goddard, OCA

GTRI employees gathered April at a reception honoring Joe Harrison. A senior research associate in the Advanced Programs Office, Harrison retired after 15 years of dedicated service to GTRI.

Harrison has served as the manager of GTRI's Eglin Operations since joining GTRI in 1982. The Eglin office acts as an on-site interface for GTRI's work at Eglin Air Force Base, which is estimated to have a contract value of \$7.8 million annually.

At the reception, GTRI's interim director Ed Reedy noted that "The contribution that Joe has made to GTRI has been tremendous. His work at the Eglin Field Office has allowed GTRI to ex-

pand its business considerably."

Added John Maguire of the Advanced Programs Office: "He has been instrumental in the growth of our business base at Eglin ... it is one of our top three sponsor markets. We're going to miss that around-the-clock support."

Prior to his career at GTRI, Harrison spent 24 years in the U.S. Air Force, where he was nationally recognized for his work in the testing of electronic warfare equipment and tactics development. He was stationed at Eglin before retiring from the Air Force as a lieutenant colonel. In 1983 he was awarded the National Test and Evaluation Medal by the Association of Old Crows.

Gerald Carey, associate director emeritus of GTRI, remarked that Harrison's exceptional character has helped contribute to his success both in the Air Force and at GTRI.

"Joe has been an outstanding representative for Georgia Tech," he said. "I can't tell you how many times industry representatives have told me that they wished Joe was on their payroll."

"He has maintained a presence at the

highest levels of Air Force command," continued Jim Cofer of APO. "He was always looking for ways to increase our involvement in the Eglin community."

About 50 people attended the reception for Harrison, which was planned and organized by Ann Jaudon, administrative assistant in APO. During the reception, Harrison, who is credited with being instrumental in the creation of the Arlington Research Laboratory (ARL), was presented with a plaque of appreciation from the Arlington Office.

Harrison also took home a variety of Tech memorabilia from his friends at GTRI. Although he holds a bachelor of science degree from the University of Tennessee, Harrison is described as a "most enthusiastic" Yellow Jacket fan.

Harrison's wife, Clarke, who also attended the reception, said that the couple plans to keep busy in retirement traveling and sailing.

"Of course, Joe will be playing a lot of golf as well," she said.

Harrison also will continue working part-time at the Eglin office.

Expressing his gratitude for having been a part of GTRI, Harrison said, "In my 39 year career, I have been fortunate enough to be associated with two of the finest organizations around — the U.S. Air Force and Georgia Tech."

"GTRI is a super outfit that is truly head and shoulders above the rest," he said.

Added Carey: "We know that wherever Joe and Clarke go from here, they will have Tech in their hearts."

Joe Harrison, second from right, reads the plaque presented to him as Jim Cofer, left, Gerald Carey and John Maguire look on. (Photo by Joey Goddard)



FARS

From page 1

Research (ONR) to continue using Circular A-21/Project Management Cost (PMC) and Allocated Project Level Costs (APLC) during FY 98.

Here's what you can expect:

- FAR training will be pushed back to the last week of June and the early weeks of July. Cindy Roberts will contact key managers soon about training specifics for their employees. A training video will be used, as well, to introduce employees to monthly time reporting procedures required by the conversion until Fiscal Services can train groups in person.

- Internal budgets initially will be set up assuming PMC and APLC, but Fiscal Services and MAPS will prepare for a conver-

sion of that budget to FAR accounts with the assistance of the MAPS groups.

- Proposals must still be submitted with Project Allocated Technical Support (PATS) rates, but also should be priced out under PMC/APLC and FAR to check for any potential cost recovery problems. MAPS is prepared to assist project directors with this analysis.

GTRI originally proposed the switch to FAR 31.2 in February 1996. The proposal was based primarily on the fact that we are, programmatically, significantly different from other university research operations, because of the nature of our contract activity. Using the commercial FAR would make our cost structure more flexible and familiar to our customers and would fit GTRI's needs better than the current structure.

Reedy, Duffy, Mullin and Embry win Research Scramble

By Lea McLees, RCT

Our leader on the job also led on the golf course May 7 at the second Semi-Annual Research Scramble Golf Tournament — as one of four members of the winning team.

Interim director Ed Reedy, Tim Duffy (VALIC), John Mullin (OIT) and Rusty Embry (SSD) achieved a net score of 65.5. Their closest competitors were Linda Schuett (ELSYS) and her husband Bob Nast, John Nemeth (EOEML), and Bob Hendry (EOEML), who came in second with 65.6.

Third place winners were Mike Hebbberger (Therrel-Kizer Roofing), Terry Buckner (Abuck Building Systems), Dan Sutton (Therrel-Kizer Roofing) and Michele Nerone (Therrel-Kizer Roofing), with a net score of 67.

Buckner also took home the award for straightest drive. Thom McLean (ITTL) and Bud Sears (ELSYS) won closest-to-the-pin awards.

The tournament, held at the River's Edge Gold Club in Fayetteville, follows the first such tournament, held Oct. 10 in Acworth. Reedy and Embry came up with the idea, and Cheryl Lilly (ELSYS) helped organize both tournaments. The first October outing was so much fun that participants clamored for another — soon.

Reedy and retiree Lloyd Lilly were second place winners in the October competition. They lost by just .7 of a point to Neal Alexander and Karen Moss of SEAL. Neal and Karen weren't able to play this time.

No GTRI funds were used, and participants took vacation time to play. All proceeds from the \$55 registration fee went toward door prizes and awards for the players. GTRI employees, their immediate relatives, sponsors and other Georgia Tech employees were invited to play.

Additional golfers included Tom Autry, Mike Willis, Lou Fertig, Rob Kossler, Bill Rogers, Bud Sears, Kim Cole, Jack Hart (ELSYS); Greg Goolsby (Chemical Eng.); John Jimenez and Don Sheffield (Collaborative Design Group); Alan Appleby and Steve Collins (Performance Mechanical Contractors); Doc Hill (SSD); Tim Banks (Materials Science); Jim Allison (MAPS); Bill Naivar (OIT); Rich Ray and Alan Kovatch (SDL); George Watkins (RSD); Jimmy Ross (SSD) and his wife, Sherry Ross, and Joe Brooks (SSD) and his brother, Glenn Brooks; Gary Williams (MARC); Gene Clopton and Jeff Holder (Mechanical Engineering); Thom McLean and Terry Hilderbrand (ITTL); Clay Dotson and Mike Harris (EOEML); Tom Horton (APO); Chuck Stancil and Cliff Eckert (AERO).

Companies that donated prizes included: Therrel-Kizer Roofing, Old Fashioned Foods, VALIC/Tim Duffy, Aqua-Treat, Georgia Tech Bookstore, Alumni Association and Athletic Association, Summit National Bank, Performance Mechanical, Collaborative Design Group and McDonald's Corp.

Cheryl Lilly photographed the event for The Connector.

To suggest a golf course to play or improvements on the tournament, contact Cheryl Lilly (404-894-0721; cheryl.lilly@gtri.gatech.edu) or Rusty Embry (770-528-7042; rusty.embry@gtri.gatech.edu).



Service Award Recipients Named

Congratulations to our colleagues — thank you for your hard work and dedication!

25-Year Service Awards (Gold-T)

Name	Lab/Unit
Bill Cooke	SEAL
Martha Farley	SSD
Bob Trebits	SEAL
Michael Tuley	STL
Jimmy Woody	SEAL

10-Year Service Awards

Name	Lab/Unit
Diane Aenchbacher	SEAL
Vicki Ainslie	EOEML
Elaine Baran	STL
Ellen Barrett	AIST
Joseph Brooks	ELSYS
Terrell Brown	SSD
Randy Case	ITTL
Stephen Chastain	ELSYS
Carol Croy	SSD
Ann Duneheew	ELSYS
Dave Erickson	APO
Lee Evans	ELSYS
Delora Felix	SSD
Lou Fertig	ELSYS
William Fishbein	SEAL
Judy Fitzpatrick	MAPS
Wade Garnto	AERO
Allen Garrison	EOEML
Gail Giles	ITTL
Eunice Glover	PST
James Hawes	SDL
Steven Hays	EOEML
Glenn Hopkins	SEAL
Stanley Hughes	ELSYS
Jeffrey Jenkins	ELSYS
Michael Kelly	ELSYS
James K. Langley	SSD
Neil Lareau	ELSYS
Andre Lovas	SDL
Mark Mitchell	SEAL
Richard Moser	SSD
William Myles	SDL
Delores Nogradi	SEAL
Ronald Prado	ELSYS
Susan Ramos	EOEML
Suzanne Renaud	ELSYS
Stefan Roth	ITTL
Dorothy Sadler	ELSYS
Linda Schuett	ELSYS
Stephen Thompson	SDL
John Toon	RCT
Roc Tschirhart	EOEML
Keith Vaughn	STL
Robert Wallace	EOEML
Annette Weinberger	AERO
Suzette Willingham	EOEML
George Wright	ELSYS

Focus on Folks

SSD's Rusty Embry (left) and the rest of the golfers prepare for the big game. (Photo by Cheryl Lilly)

Focus on Folks

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EDITOR

Lea McLees, RCT
(404) 894-4259

GRAPHIC DESIGN

Charlotte Doughty, RCT
(404) 894-6965

EDITORIAL REVIEW

Charles Brown, RSF
(404) 894-3516

ASSOCIATE EDITORS

Miriam Crenshaw, ERB
(404) 894-3523

Ann Dunchew, ELSYS
(404) 894-3592

Carey Floyd, SDL
(770) 528-7070

Delora Felix, SSD
(404) 894-3408

Maggi Harrison, AERO
(770) 528-7826

Deborah Hightower, STL
(404) 894-7743

Lee Hughey, APO
(404) 894-9621

Joanna King, MAPS
(404) 853-0460

Diane Knobloch, EOEML
(404) 894-0024

Francine Bennett, AO
(404) 894-3411

Melanie Price, SEAL
(770) 528-7915

Jennifer Tate, RSD
(770) 528-7808

Doug Coleman, MAILROOM
(404) 894-3668

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gatech.edu/connector/
ctwelcom.htm>>



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Professional Activities

Advanced Programs Office

Jennie Lincoln served as working group facilitator for the Western Hemisphere Strategy Symposium sponsored by the U.S. Southern Command in Miami, Fla., Apr. 14-16. She also was an invited participant in the Carter Center Conference on "Latin America in the 21st Century," held Apr. 28-29. The conference was co-hosted by former presidents Jimmy Carter and Gerald Ford.

Electro-Optics, Environment and Materials Laboratory

Chris Summers was presented a presidential citation by the Society for Information Display at the society's annual business meeting on May 13. The citation recognized Summers' "Outstanding leadership as program committee chair for the Second International Conference on the Science and Technology of Display Phosphors."

During April, **John Nemeth** presented "The Technical Outreach Services for Communities Program," a U.S. EPA Hazardous Substance Research Program sponsored activity. He presented the paper at the Joint WERC-HSRC Conference on the Environment at Albuquerque, N.M., and he also chaired a technical session on technology transfer. Nemeth presented "The U.S. EPA Hazardous Substance Research Centers' Cleanup Technology Research Programs" at the Annual National Association of Environmental Professionals Meeting in Orlando, Fla., May 18-23. He attended the board of directors meeting of the Academy of Board Certified Environmental Professionals.

Kirk Mahan presented an OSHA Overview and Update for the Architectural Woodworking Institute's quarterly meeting on Apr. 18.

Paul Schlumper, Myrtle Turner and Jim Walsh gave an environmental, safety and health seminar for industry in Macon on Apr. 21. This seminar, offered in partnership with Georgia Power's Technology Application Center and the Georgia Manufacturing Extension Alliance, gave participants current information on environmental and occupational safety and health regulations and management systems.

Bob Schwerzel presented an invited paper on "Dancing with Photons: Waveguides, Quantum Dots and Some Unresolved Questions in the Physics of Light" at a special symposium on photochemistry at the 1997 Florida ACS meeting in Orlando on May 2.

In November 1996, **Chris Summers, Wusheng Tong and Christian Stoffers** attended the 1996 International Display Workshop in Kobe, Japan. Summers chaired the LED and Inorganic EI session. Stoffers gave a talk on "Low Voltage Saturation Effects in Y2O2S:Tb." This paper was co-authored by **S. Yang, S. M. Jacobsen,**

B. K. Wagner, J. Penczek and C. J. Summers, along with P. N. Yocom and D. Zarimba of David Sarnoff Research Center. Christopher Summers gave an invited talk on "Current Research Trends in Display Phosphors."

Research Security Department

Research Security at Cobb County hosted the 1997 Program Security Officer Security Conference for government and contractor personnel Apr. 22-24 at the Cobb County Research Facility. **Bob Lang**, RSD director, presented an overview of lessons learned from the 1996 Olympics. RSD at Cobb County also recently hosted a visit by Richard Williams, Office of the Under Secretary of Defense (Policy), and Keith Shaver, Department of the Navy (Office of Security Policy).

Personnel News

New Hires

APO welcomes **Tamar Kelly**, Tech Temporary, and **Chad Owens**, Student Assistant. STL welcomes **Nicole Bendik**, Student Assistant; **Jason Bryan**, RE I; **Katherine Hoover**, Student Assistant; **Christopher Kane**, SRE; and **Anaya Turner**, Student Assistant. FSD welcomes **Jim Cook**, Project Director II. EOEML welcomes **Magdalena Dale**, Student Assistant; **Byron Letourneau**, Student Assistant; and **Michelle Wassel**, Student Assistant. ELSYS welcomes **Royal Madison**, Student Temp., and **Kenneth Selvidge**, RS I. AERO welcomes **Peter Sayal**, Student Assistant.

Moving On

Virginia Ferrell (EOEML); **Joe Harrison** (APO); **Yolanda Nieves** (PST); **Lori Metcalf** (STL); **Michele Shade** (ELSYS); and **Mark Wasikowski** (AERO) are moving on.

New Responsibilities

William Rogers, Chief of the System Evaluation Division of ELSYS, has been appointed interim ELSYS director. The previous director, **Bud Sears**, is retiring. Sears will continue working in other capacities until the end of June.

Personal Notes

Cradle Roll

Leanne and **Bryan Black** (EOEML) welcomed a daughter, Alyson, on Apr. 5.

Wedding Bells

Susan Carcione (AERO) and **R. Casey Brown** (SDL) were married on May 3.



Heli-STAR

From page 4

"This would make air travel safer and faster. The net benefit to the traveling public would be to make air service a better product."

Heli-STAR: A Cooperative Venture

The Heli-STAR program resulted from cooperation among numerous government and industry groups who shared the \$10 million cost.

The FAA's General Aviation and Vertical Flight Program office served as the lead government office, and involved the Agency's Southern Region and its Flight Standards Office. The National Aeronautics and Space Administration's (NASA) Advanced General Aviation Transport Experiment (AGATE) program provided the CNS equipment through a program called the Atlanta Communications Experiment.

Technical assistance came from the Science Applications International (SAIC), the FAA's technical support contractor. SAIC contracted with GTRI to provide local project management, cargo operations, data collection and analysis. The Project Operations Center was also established at GTRI's Cobb County Research Facility, near Dobbins Air Force Base.

The helicopter industry's contributions came through the Helicopter Association Intl. (HAI) and the Atlanta Vertical Flight Association (AVFA). The Georgia Emergency Management Agency (GEMA) coordinated the public safety elements of the project.

ARNAV Systems provided the CNS equipment, while the Harris Corp. provided the air traffic control consoles.

Other participants included Pan American Weather Services, Petroleum Helicopters, Inc., Genisys Operation, Albert and Associates, Inc., CommuniQuest and GNSS Corp. U.S. Department of Defense agencies provided further assistance with equipment

Employees

From page 3

eral government specifications.

"This demonstrated versatility facilitated development of the specific processes by which the documentation is developed," Sitterle said.

•Using her new skills to generate professional quality presentation material that integrates text and graphics. This reduces the amount of effort that technical and management personnel spent on these tasks, and helps move projects toward timely completion.

•Compiling proposal packages from various technical inputs researchers submit.

"This has greatly reduced the effort required by project directors and laboratory management toward the generation of formal proposals," Sitterle said. "Her efforts have greatly contributed to the continued success in contract development for this laboratory."

•Having a great attitude and influence on lab morale.

"This willing spirit has been exemplified on numerous occasions when late hours were necessary to accomplish a task, often with unreasonable schedules," Sitterle said. "Her extra efforts are greatly appreciated by everyone with whom she works."