Secrets to success

- It takes as much courage to have tried and failed as it does to have tried and succeeded.
  — Anne Morrow Lindbergh
- Those who fail in life often pursue the path of least persistence.
  — Anonymous
- Nobody can make you feel inferior without your consent.
  — Eleanor Roosevelt

Defense Conversion Group Formed

GTRI's Office of the Director (OOD) is coordinating a newly formed Defense Conversion Working Group at Georgia Tech.

This group will be the focal point in Georgia Tech's efforts to obtain funds from the $1.5 billion identified by Congress for programs related to defense conversion, retraining, and transition assistance.

Explaining the need for this group, GTRI Director Adramul H. Trudy said that "most industrial concerns having significant defense business are rapidly investigating conversion."

Jim Cofer, a principal research engineer in OOD, will head the 10-member panel. Other members include: Ron Holldaner, a principal research scientist in OOD; Randy Case, director of CSFTR; David Clifton, director of econometric development and technology transfer in GTRI; John Copeland, a chaired professor of technology transfer; Larry Forezone, director of Tech's Office of Technology Integration; Bob Faulcon, professor of mechanical engineering; Mike Kelly, director of the Manufacturing Research Center; Leon McGinnis, director of the OMS program; and Dick Higgins, director of the Micromechanics Research Center.

The working group will coordinate pursuit of new conversion opportunities, serve as a clearinghouse for conversion information, assemble a "capability base" to facilitate rapid proposal responses; recommend strategic alliances with industry, government, academia, and other organizations; leverage the combined strengths of all teams working defense conversion funding; bring in external resources and speakers; and carry out other appropriate activities in the defense conversion area.

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Clintond's Federal Budget Plan: How Will It Affect GTRI?

By Lea McLees, RCO

The arrival of the first Democratic administration in Washington, D.C., in 12 years means a myriad of changes in many aspects of government spending. Some GTRI-folks took time this month to comment on the initial budget ideas President Bill Clinton shared with the nation in a mid-February speech, and what these plans may mean for GTRI.

Clinton and Vice President Al Gore's interest in the environment might create opportunities for research institutions if funding plans are set, said John Nemeth, director of the Environmental Science and Technology Laboratory. Clinton's plan includes a spending increase of about $8 billion on environmental technology, clean water, protecting natural resources, and forests between 1994 and 1997.

"Whether there is going to be a traditional sort of infrastructure to adequately support research needs, and how that is going to happen in the context of the budget cuts, is not clear," Nemeth said. "The Clinton administration may look more strongly toward university-government-industry partnerships like the Georgia Research Alliance and the Georgia Environmental Technology Consortium."

Continued on page 3

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Observed & Noted

This story can be found on page 5.

On February 23, Tech student Jay Nemeth became GTRI director for the day, while Adm. Richard Trudy got some new experience as a student. See page 6.

April promises to be a busy time at GTRI and Georgia Tech. See the Calendar of Events on page 7 to find out more about what's happening on the Tech campus.

Finally, mark this date on your calendars! On May 19, GTRI will celebrate the coming of warm weather with its annual Spring Fling Picnic. From 11 a.m. to 2 p.m. at Tech's Burger Bowl, see you there!
22,000 View GTRI Poultry Exhibit

By Craig Wyvill, EOPS

More than 22,000 visitors to Atlanta recently had a chance to learn about the work of GTRI's Agricultural Technology Research Program (ATRP). GTRI participants set up a booth at the 1993 International Poultry Trade Show, held January 20 through 22 at the World Congress Center in Atlanta. That show is the largest exhibition of poultry industry automation technology and support services; it featured more than 900 exhibits this year.

ATRP's booth featured photographs and videocassettes of ongoing research in robotics, computer vision, sensors, ergonomics, and environmental studies for the poultry and food processing industries. Also included was a replica of the Tech Tower containing a menu-selectable computer video and sound program, which explained ATRP's research activities. A working exhibit showed off ATRP’s computer-based Ergonomic Work Assessment System (EWAS).

ATRP has supported the poultry industry since 1973, working in cooperation with the Georgia Poultry Federation and receiving funding from the Georgia Legislature.

Atlanta IEEE AESS: GTRI Contributes to 10 Years of Excellence

By Andre Lovaas, TSDL

The Atlanta Chapter of the Institute of Electrical and Electronics Engineers Aerospace Electronic Systems Society (IEEE AES) celebrated its 10th anniversary recently at one of its technical programs. The event was celebrated by recognizing past chairman. Six of eight past chairmen were present, all GTRI employees. The chapter was privileged to have AES executive managing director Ed Reedy (OCD) in attendance. Technical programs included:

- Space-Time Adaptive Processing for Airborne Surveillance Radar, given by John Ritch of Sensis Corporation.
- The Atlanta Chapter has enjoyed many years of activity thanks to the dedication of its past chairmen. Currently serving as officers are Andre Lovaas (TSDL), chairman; David Flowers (CMID), vice chairman; Linda Harris (BNA), secretary; and Joe Smith (EE), treasurer.

The April 5 program topic will be Advances in Adaptive Antenna Systems, presented by Annegret Scharf, IEEE AES Distinguished Speaker. The program will be held at the BNA Building, 2000 Chamblee-Durham Road, Suite 200.

A full slate of programs was scheduled for the 1992-1993 year. Topics addressed thus far include:

- F-22 Integrated Avionics, presented by Tom McDermott of Lockheed Aeronautical Systems Company;
- Spaceborne Sensor System, presented by S. K. Scharf, IEEE AES Distinguished Speaker;
- Joint U.S./Russian Radar Ventures, presented by Barry R. Corey, GTRI (MATD);
- Wavelets for Sensor Signal Processing, presented by Jeff Holder, GTRI (NRL);

Settling down, clear your mind.

February awards performance ‘very strong’

By Mark Hodges, RCO

GTRI's awards performance was "very strong" during February, according to Executive Associate Director Robert G. Shackleford.

In a report to the GTRI Senior Staff meeting March 1, Shackleford said that awards were $2.7 million higher for this February than for the same month a year ago. In addition, he said, awards for the fiscal year through February totaled $57.4 million—some $4.3 million higher than they were at the same point in FY 92.

It is still too early to predict what GTRI's awards total will be at year's end, Shackleford said. However, he added, if awards for each remaining month in FY 93 average about the same as those for January and February, this year's annual awards will total approximately $65 million to $90 million. That would represent a substantial increase over the $75 million in awards that GTRI received in FY 92.

Georgia Tech also had a good month for research awards, Shackleford said, with Resident Instruction finishing $1.7 million ahead of its February 1992 pace. For the fiscal year through February, Georgia Tech has received approximately $7 million more in total research awards than during the same period of FY 92.

On other financial issues, Shackleford told the Senior Staff that GTRI research expenditures are about the same for the year to date as they were in the July to February period of FY 92.

He added that staff coverage problems continue in some GTRI labs but that these difficulties were largely accountable to "missmatches" between unit work needs and individual skills.

Connector Goes On-Line!

The Connector has been publishing an electronic edition. "Hard copy" editions of The Connector will continue to appear, but all stories in each issue will also appear on Georgia Tech's Gopher server in the "Research Communications" directory. The Connector joins the only RCO publication accessible through the Gopher server: Research Horizons magazine, many RCO news releases, and all other research information resources will also be published electronically.

All of these articles can either be read on computer screens or downloaded in hard-copy form with appropriate software.

Readers can call the main menu of Research Communications in two ways: PRISM users can type the word "read" at the standard Hydra prompt.

- Other users will need to acquire software on the campus FTP server, "flogatech.edu," which is located in the /pub/information/gopher directory. The software for PC users is called "ping2.105.rp." Software for Macintosh users is called "Turbo Gopher." Software for accessing the Gopher server from several other computer types is also available. After copying the appropriate program, readers can follow the instructions in "read me" files.

For assistance in accessing this directory on the Gopher, call the Office of Information Technology Help Desk at 894-7173.
Budget From page 1

He also noted a movement to set up a National Institutes for the Environment, modeled after the National Institutes of Health. “Something like that could be very important,” Nemeth explained. “Combined with the current cabinet-level status of the U.S. Environmental Protection Agency, there would be a whole new, relatively organized way of distributing environmental research funds — it offers the potential to institutionalize research priority setting.”

Telecommunications might also be an area of research and development where GTI might find funding opportunities, said Senior Research Engineer Bill Smith. He is director of Georgia Tech’s Washington, D.C., Office of Federal Relations.

Smith, who works to find federal funding for Tech’s research programs, believes that GTI can benefit from pursuing some of the almost $600 million available for technical programs in the private sector, as part of the defense conversion efforts of the Department of Defense. Information on these programs was scheduled to be released around March 15.

Smith advocates using GTI’s strong in-house capabilities to develop research programs, in light of the new administration’s civilian technology priorities. GTI Associate Director Gen. Gerald Carey agrees with Smith on this point.

“GTI has to adjust its research priorities to those which the nation and society have identified as needs,” said Carey. “Some of the major priorities of the new administration are improving the infrastructure, the transportation network, and the environmental network. These are areas in which we have initiatives.”

But Carey also sees need for and applications of continued defense research. Clinton’s defense budget is about 66 percent of Reagan/Bush predecessors, but both Clinton and U.S. Secretary of Defense Les Aspin have said they wish to maintain the military’s research and technology edge. Carey predicts a need for work supporting smaller operations, such as those in Somalia and Bosnia. Even now, satellite-based global positioning systems (GPS) and LiDAR technologies could be used to improve the accuracy of airdrops to starving Muslims in Bosnia, he noted.

Maintaining contacts in Washington will be important as the budget takes shape, Carey said, because priorities are evolving daily. Just as important is investing discretionary funding in equipment, seed research, and program development at GTI.

“You need to bring research capability to the marketplace if you are going to be successful,” he said. “If you look at GTI, with $100 million in research contracts, we should be spending in the neighborhood of $2 million on internal research to remain competitive, and to bring new ideas to our potential sponsors.”

A willingness to cooperate with other institutions may also be a key to securing new federal funding, Nemeth said.

“If we combine with our sister institutions in the Southeast, we have rich potential for a major national center of excellence in one or several aspects of the environment,” he explained. “The key is being willing to form consortia and share the vision, the work, and the funding.”

Spotlight on Internal Research

STGC Investment Develops Skills Combination Few Universities Can Match

By Lea McLees, RCO

This is the result in a series of articles reporting on projects funded by GTI’s Senior Technology Guidance Council (STGC).

Personal communications, collision avoidance systems, and other applications may benefit one day from an STGC investment in combining a proven semiconductor fabrication process with new materials developed at Georgia Tech. The effort has also helped develop a set of demonstrated skills here that few universities have, says senior research engineer Mike Harris (ESPEL).

“Not many universities have the full capability that we have as semiconductor materials growth, device fabrication, assembly and testing,” he said.

“Probably our biggest competition as far as contracts is industry. Some of the aerospace companies have this type of capability.”

Solid-state devices and circuits similar to those being produced here at GTI as a result of this STGC project are used in direct broadcast satellite operations and on board navigation. In the future, they might be part of collision avoidance radars in automobiles; they also may contribute to further miniaturization of personal communication equipment, such as portable telephones.

Harris and several colleagues began in 1988 to develop high-performance, high electron mobility transistors (HEMTs) using the semiconductor materials aluminum gallium arsenide and gallium arsenide. The fabrication process involved etching defined regions on two-inch diameter gallium arsenide wafers. Ohmic contact metals and Schottky barrier metals were deposited and patterned on the wafers. The Schottky barrier gate, one of the structures constructed on the wafers, must be extremely thin — the smaller it is, the faster electrical charges can be moved through the device. The gate lengths the researchers were constructing measured about half a micron long, more than 100 times smaller than the width of a human hair.

The aluminum gallium arsenide and gallium arsenide materials were grown by principal research scientist Dr. Chris Summers and research scientist Dr. Abbas Torabi, with device fabrication and materials growth; research equipment specialist Stan Halpern (ESPEL), device assembly; director Bill Cooke and research engineer Glenn Hopkins (MATD), measurements; and research scientist Gene Weaver (MATD), equipment. The group also used equipment at the Microelectronics Research Center.

In the future, the researchers want to develop better uniformity among the devices they make. Eventually they would like to develop circuits for use in radar systems and other programs at Georgia Tech.

Georgia Tech
RESEARCH INSTITUTE

Researcher Mike Harris holds a photomask, which is used to transfer patterns to silicon wafers. A round, reflective silicon wafer lies on the equipment to his left. (Photo by Billy Banks)
Former GTRI Director Retires At End of March

By Mark Hodges, RCO

The administrator who led GTRI through its period of most pronounced growth is retiring from Georgia Tech at the end of March. Dr. Donald J. Grace stepped down as GTRI director on December 31, after 16 years at the helm of the organization. He presided over GTRI’s evolution from a small engineering experiment station to a research institute with a $100 million a year budget and a national reputation for excellence in applied engineering. Not surprisingly, a quality that Grace has always admired in Georgia Tech—and GTRI—is its can-do spirit and willingness to innovate.

“Tech, it seems to me, has always been scrapping to move forward,” Grace says. “I like Pat Corwin’s goal of Tech being the premier technological university in the world. That positive attitude is what I like about Georgia Tech.”

Okahoma native

A native of Oklahoma City, Grace was a student at the University of Oklahoma when World War II broke out. After serving in that conflict, he enrolled at Ohio State University, where he earned bachelor's and master's degrees in electrical engineering. He then moved to Long Island, N.Y., to work for the Airborne Instruments Laboratory.

Two years later, Grace and his wife, Joan, decided to move to California, where he found a job at Stanford University. During his tenure in Palo Alto, he earned his doctoral degree in electrical engineering. Grace rose to the rank of associate dean of the School of Engineering, whose dean, Joseph M. Pettit, later became president of Georgia Tech. In this job, Grace headed efforts to organize the Stanford Instructional Television Network, an operation which remains active today. After eighteen and a half years at Stanford, Don and Joan Grace decided to move their family west again. This time, their destination was Hawaii, where Grace became director of research at Kamehameha Schools, a private institution.

After four years at the University of Hawaii, Grace and his family found they had contracted a “lack of full-time research activity,” Grace says. “My job was to help the academics find and manage research projects.”

After four years at the University of Hawaii, Grace and his family found they had contracted “inland fever” and were anxious to get back to the U.S. mainland. Grace began interviewing for jobs, among them the position of director at GTRI’s predecessor organization, the Engineering Experiment Station.

“Grace is a person who cares for people,” Grace adds that, “Don exhibited a very high regard for the people that make up GTRI and a concern for their job satisfaction and professional development. He tried to take that personal concern and reflect it in the way that the organization did its business.”

Associate Director Pat OHare concurs with Grace’s assessment. “He showed me over all the time and in very tense situations that for him people ALWAYS came first,” OHare says. “The level of interest he could generate in an idea someone has is beyond what I have ever seen in any other person.”

Among the specific accomplishments of GTRI during this administration, Grace singles out the “creative efforts that allowed GTRI to obtain new building space in the form of the Centennial Research Building and the leased facilities in Cobb County near Dobbins Air Force Base.”

With the establishment of the foundation to acquire facilities for Georgia public research institutions, he says, “we would have needed to get the state to allocate funds to build a new building.”

Grace also is pleased by the progress made during his tenure in improving ties between GTRI and academic units. Dr. Dementius Parks, vice president for research and graduate programs, believes that Grace has played an important role in this process. “We have placed a great deal of emphasis on nurturing relationships between GTRI and the academic side,” he says. “Grace has been a very instrumental in getting these efforts moving.”

Grace sees a number of important challenges facing GTRI as it moves toward the year 2000. First, he says, the organization must deal effectively with new associations that the federal government is placing on universities in their use of research funds—most importantly, the cap on the administrative component of overhead for federally sponsored grants and contracts.

Second, Grace adds, other fiscal forces are making it difficult for GTRI to “generate funds for equipment, monitoring programs, student awards, and other programs that the organization needs to enhance rather than simply maintain its programs.”

Third, Grace believes GTRI needs to continue improving its communications efforts so that we are better understood and appreciated by the rest of the state.”

Future plans

Since stepping down as GTRI’s director in November, Grace has remained at Tech—cataloging materials from his administration, winding down involvement in campus-wide activities, and assisting with special projects where he has historical perspective is needed.

“Ever been putting in four to five hours a day,” Grace says, “because of the continuing physical problems my wife has been having, I'm taking a significant amount of sick time during this period.”

Grace does not plan to take a “major full-time job” after his retirement from Georgia Tech.

“Our immediate plans call for us to remain in Atlanta,” he says. “I'm interested in doing some consulting in management or analysis of R&D technologies.”

Otherwise, Grace expects to spend more time cultivating his hobbies as playing bridge, gardening, and reading historical fiction.
America and GTRI Face New Kind of War, Says Retiring Associate Director

By John Toon, RCO

When Gerald J. Carey left West Point to enter flight training school in 1952, Cold War tensions were high and the United States was embroiled in the Korean Conflict. As he retires this month after a 30-year Air Force career and nearly 12 years at GTRI, Carey finds the nation involved in different kinds of war that he fears could undermine its prior military successes.

"We need to defend the country not only militarily, but also economically," he said.

"People out there are willing to take our markets away, which would impact our standard of living just as dramatically as if we had lost the wars.

To win this new war, America will have to change the way it does business and adapt to economic conditions that are dramatically different from those of just a few years ago. Carey, who leaves GTRI after serving as associate director and laboratory group director, believes the research institute faces a similar set of challenges with stakes that are every bit as high.

"This is a most dramatic time for GTRI as it changes its sponsor base and tries to help the university achieve its objectives to become the leading technological university for the 21st century, without the level of investment commensurate with those new objectives," he said. "But I am very upbeat that GTRI will succeed during this period of transition."

Carey believes GTRI has matured significantly as an organization over the past decade, making a transition from small individual research efforts to large and complex projects which require teamwork to win.

During that same time, GTRI's research volume grew from less than $50 million a year to $100 million, a success in which he prides himself for having played a part.

But the Institute cannot expect the same strategies to bring success in the future.

"We cannot necessarily steer by our wake," he said. "Success in the past does not necessarily portend success in the future. We had an expanding marketplace within the defense sector that we had to adapt to; we now have a considerably changing marketplace with a different set of priorities."

As he leaves GTRI, Carey looks fondly to the people with whom he has worked. But he also looks ahead to new opportunities for contributing to causes that are important to him: international policy issues at the Carter Center, service to the homeless in Atlanta, and correcting wrongs left over from the Vietnam War — assistance to the Asian-American children fathered by American servicemen and the resettlement of Lao tribesmen.

"The Mung Tribesmen in Laos were our allies, and many of my squadron-mates who were shot down owe their lives to the courageous efforts of these people," he explained. "When we pulled out of Southeast Asia, they were left to themselves and nearly exterminated. They paid a high price for helping us."

Brought to the United States for resettlement, the Mungs have not adapted as well as other nationalities. Carey believes it is time for the United States to invest in proper assistance efforts for them.

GTRI's 165 combat missions in Southeast Asia are part of a career that included three years as an attaché with the U.S. Embassy in Tokyo, ten years as an aeronautical engineer and two years as Commander of the First Tactical Fighter Wing, which had its origins in World War I Ace Eddie Rickenbacker's 'Hat-in-the-Ring' Squadron.

During the 1970s, he served as Assistant Director of Operations for the Tactical Air Command at Langley Air Force Base, and as Commander of the Air Force's Tactical Air Warfare Center at Eglin Air Force Base. He retired there as a Major General.

A 1981 board meeting of the Georgia Tech Research Corporation held at Fort Walton Beach, Florida — not far from Eglin — set the stage for Carey to join GTRI, then known as the Engineering Experiment Station. During the Board's tour of Eglin, he was introduced to the late Dr. Joseph M. Peitt, then president of Georgia Tech, and to Dr. Thomas E. Stelson, then vice president of research. EES was expanding, and needed a person with Carey's background and expertise.

"It was really serendipity," he recalled. "I was aware of the work Georgia Tech did at Eglin, but I was not aware of the organization or the size of it. If they had not held their meeting at Fort Walton Beach, it might not have happened."

The New York City native will continue to be a member of the Air Force Scientific Advisory Board, and is presently working on several technical projects. He hopes to spend more time now with his wife, four children, and seven grandchildren. He and his wife plan to maintain their home in Atlanta.

Using the Telephone Economically

Unlike that space alien and film star E.T., GTRI folks need to phone further than just home. Following are tips on calling and fixing from work, courtesy of assistant managers Harry Yann and Carl Baxter, Facilities Management Department.

**Which calls require an 8 prefix?**

Dial 8 before the area code/number of long-distance calls or fees within the continental United States. That places the call via GIST (Georgia Interactive Statewide Telecommunications) lines. Such calls are billed at seven cents per minute less than regular calls. That provides a savings of $2.10 per 30-minute call, for example. When dialing Hawaii, Alaska, or international locations, prefix the codes and numbers with a 9.

**Can GIST lines be used for personal calls?**

The lines are for business calls only. Labs and offices are billed for each individual call — therefore, excessive personal use of GIST lines indeed increases phone bills. Each GIST or regular long-distance call is individually itemized on a bill.

**What else should we check?**

Periodically look at the list of phone numbers attributed to the lab. The bill lists every phone number the lab has," Baxter said. "If you see a number you don't recognize for one of your people, fax machines, or computers, you should check it out."

**What if we don't use one of our phones?**

Labs are billed per telephone — not per phone number — for use of the fiber optic network on campus. If an unused phone will be put to work soon — a vacancy will be filled, for example — keep the phone. If a phone is not expected to be used again, removing it will drop charges by $14.99 for fiber optics service and maintenance. Reductions would show up starting with July 1995 bills.

**What if we need access to a 1-900 number?**

More companies are making their technical support lines "1-900" numbers. For "1-900" access, get approval from the correct unit heads or lab director and contact Baxter at (404)687-8327.

**Who do we call to solve phone problems?**

Call 656-6000. If you have problems with a particular feature on your phone, the operator may ask you for that feature's work order number. To get that number, or to ask general phone questions, call or e-mail Baxter at the numbers listed above.
Truly Becomes Tech Student for A Day

Admiral Richard H. Truly recently returned to the Tech classrooms of his youth — but to listen, not to lecture. The GTTR Director and 1959 Tech graduate became a student for a day as part of a Georgia Tech Student Foundation fund-raising campaign that brought in $500,000. The Foundation invests in a $280,000 portfolio, allocating interest and dividends to student projects and organizations. Two of the students who made $1 contributions to the endowment fund were chosen randomly to spend February 23 as either Truly or Tech President John P. Crecine.

Jay Nemeth, a junior electrical engineering major, (not related to our own John Nemeth, Director of the Environmental Science and Technology Lab) traded places with Truly.

“I am thinking about what I want to do with my career,” Nemeth said. “I was interested in Admiral Truly’s job because I wanted to find out what he does.”

Truly was equally interested in trading places with a student.

“When the Student Foundation asked if I was interested, I immediately accepted,” he said. “I thought that I would learn a great deal about today’s Tech student, plus I knew it would be fun... I was right on both counts.”

The two began with breakfast at Junior’s Grill on North Avenue. Nemeth was greeted at the Centennial Research Building by a reserved parking space and a personalized nameplate outside what is normally Truly’s office. He then attended the President’s staff meeting with Dr. Crecine’s stand-in for the day, sophomore Martha Louis, a fellow electrical engineering major. Nemeth’s day included attendance at research coordination and program development meetings and a tour of the Counterminears Development Laboratory.

Truly, meanwhile, had a student ID made, dealt with financial aid, attended a graduate aerospace engineering class, and sat in on a Graduate Student Senate meeting. He lunches at the Kappa Alpha fraternity house and stopped by the Student Center. About the only routine student experience he missed was getting a parking ticket.

“I bid my car so they couldn’t find it; some things don’t change over 30-plus years!” Truly said.

The two ended the day together at a reception and headed to the Coliseum to watch Tech beat Virginia 75 to 61.

Nemeth particularly enjoyed the program development meeting.

“They made me feel involved and they let me ask questions,” he said. “It even seemed like something I wouldn’t mind doing as a career.”

Truly found the day rewarding, as well.

“Jay did a fine job of naming GTTR for a day, and I learned a lot, too. I’d recommend the experience to anyone lucky enough to get the opportunity,” he said.

Kudos...kudos...kudos!

Editor’s Note: GTTR prides itself on being responsive to the needs of industry. Following are excerpts from two letters written by individual companies to express their appreciation of GTTR and Georgia Tech’s assistance.

(This letter was written to G. Zell Miller in appreciation of work done by EEL’s regional office.)

October 5, 1992
Dear Governor Miller,

I am writing to you to express my appreciation for the hard work and efforts of the numerous state organizations that assisted Evenflo in our decision to relocate our manufacturing operations to Canton, Georgia. Georgia Tech played a significant role in our decision-making process. In particular...the unique services to be received from Georgia Tech put Georgia far ahead of the other states we considered. As we now move into the design phase of the new facility, the help from Georgia Tech is the center point of all of our efforts. The successful completion of this project will be largely attributed to the work that is done in the planning stages by Georgia Tech. In fact, as I am writing this, we have two Georgia Tech engineers in our plant from the Rome and Dublin regional offices. They are beginning work on the plant size and layout for our new Georgia facility and will be working closely with our architectural and plastics engineering consultants.

In addition to the services Georgia Tech will be providing in our relocation planning, their continuing support once we start operations in Georgia make the overall Georgia package especially attractive. Access to Georgia Tech plastics and polymer research, the problem-solving capabilities of the regional offices, and the specialized engineering services available will aid Evenflo in improving and retaining our competitive edge. Sincerely,

Evenflo Products Company
James J. Keane
Vice President-Operations

(This letter compliments staff of the Aerospace Lab on their work. Dr. Krish Atlju credit his students, led by Tim Hamel, and members of Design Services for their outstanding efforts, which have brought a promise of a $500,000 follow-on for next year.)

September 17, 1992
Dear Krish,

I would like to compliment your staff for their exceptionally high quality work and creativity in developing and implementing new instrumentation and data analysis techniques. It is obvious from the quality and quality of the work that your staff produced that they are motivated by the challenges of automotive aerodynamics. We know that we can count on you and your staff to exert whatever efforts are required to produce high quality results within deadlines. Please extend my thanks to your staff.

Sincerely yours,

William J. Quinan
Design Center
Ford Motor Company
Admiral Richard Truly speaks to the Kiwanis Club of Atlanta during its lunch hour program. Location to be announced.

Introduction to Elm and the Pico Editor, 10 a.m. to noon, Room 239/Rich Building. Introduction for terminal users to elm (electronic mail) and the user-friendly editor, Pico. Please bring Hydra account information. For more information or to register, call 894-4660.

April 14
WordPerfect (XSDO) Tips & Tricks, 10 a.m. to noon, Room 239/Rich Building. Learn to use tables, spreadsheet linking, menus, merge macros and style sheets. Presented by WordPerfect. For more information or to register call 894-4660.

Performance Programming and Debugging on the Gray, 3 to 5 p.m., Room 105/French Building. For those interested in using the Gray YMP-EL, covers vector architectures, processing and programming. Will include use of debugger and performance monitoring tools through XWindows. For more information, call 894-4660.

April 19

Inspecting for Lead Hazards in Residences and Lead-Based Paint Risk Assessment. Georgia Tech Continuing Education course. Runs through April 23. To register and check location, call 894-2547.

April 22
The Armed Forces Communications Electronics Association hosts Admiral Richard Truly during its lunch meeting at Fort MacPherson.

Introduction to NaPlop, 10 a.m. to noon, Room 239/Rich Building. See April 2 listing.

April 26
Southeastern Safety and Health Conference. Runs through April 28. For registration information, call 894-2547.

ISO 9000 Standards for Quality Management. Runs through April 27. Learn what to expect from auditors, why ISO 9000 registration is important, and steps of the registration process. Led by Harrison Washworth and Jerry Banks of ISYE and ISO 0004 developer Robert Peach. For information or to register, call 894-2400.

April 27
Infrared Visible Signature Suppression. Georgia Tech Continuing Education course taught by Chief Scientist Dave Schmieder (EOFSL).

Dr. Carl Verber (right), School of Electrical Engineering, was recognized by GTRI Chief Scientist Vernon Crowe for his outstanding contributions as a member of the Senior Technology Guidance Council. He served on the council from 1989 to 1992. (Photo by Dayton Funk)

April 28
Advanced Technology Development Center's Fourth Annual Spring Open House, 1 to 4 p.m., 430 Tenth Street, Suite N-116. See high-tech exhibits and demonstrations; the giving of the ATDC Entrepreneurship Award; and presentations on bioinstrumentation technology for near-patient clinical testing and non-invasive laser-based medical diagnostics. ATDC is one of the nation's oldest business development programs for building high-tech companies. For more information, call Vivian Chandler at 894-8999.

WordPerfect 5.2 for Windows, 10 a.m. to noon, Room 239/Rich Building. This version allows users to see graphics and fonts without having to enter preview mode. For more information or to register, call 894-4660.

Code Optimization on Kiss. Examples in Fortran and C; 3 to 5 p.m., Room 239/Rich Building. Picks up where introductory seminars left off. Will include examples of porting and optimization of three Fortran codes and implementing p-threads calls in C codes. For more information or to register, call 894-4660.

April 29

LOOKING AHEAD...

May 19
GTRI's annual Spring Fling Picnic, 11 a.m. to 2 p.m. in the Burger Bowl. That's the grassy area next to the Purchasing Central Receiving Building at Hemphill and Eighth streets, the same location as last year. Rain date: May 27. Mark these dates on your calendar today!

Submissions for the calendar may be sent to the associate editor listed in the bottom left corner of page 8, or to Jean McInerny, BLDG/240. The deadline is the first Tuesday of the month before the event is scheduled.
Focus on Folks

Professional Activities

Economic Development Lab

James E. Scull

The Greenville Regional Office was awarded his MBA in finance from Georgia State University during December 1992.

Recently registered as a Professional Engineer is Dennis Kelley of the Macon Regional Office.

Harris Johnson and John Mills, in Hawaii for the winter Board and State Presidents Meeting of the National Society of Professional Engineers, encountered an earthquake and a major Pacific storm during their island stay. Major issues at the meeting affecting the Georgia Tech community include 11 mandatory continuing education requirements implemented by some states, 2) professional practice taxes levied on all Professional Engineers by some states, 3) individual liability for violation of environmental laws, and 4) qualifications-based selection for professional services. If you have questions, contact Johnson in the Carrollton Regional Office at (706) 506-2682 or Mills in the Columbus Regional Office at (706) 850-6605.

Electronic Support Measures Lab

Terry Tibbitts, Kim Cole, and Robert Rabold traveled to Warner Robbins Air Logistics Center to teach a short course on the AN/AIR-69 software. Twenty-five current and potential customers from five government agencies attended the January 25 through February 5 program.

Larry Holland presented a paper and led a workshop on “ABC’s of Implementing TQM for Co-op” at the American Society for Engineering Education’s 1993 College Industry Education Conference on January 27.

Dick Ingle and Ahmet Erbil (Physics) presented an invited paper at the annual conference of the Electrical Apparatus Service Association in Savannah.

On January 23 Kathy Schlag was an invited speaker for the Futurescoping program.

Electro-Optics and Physical Sciences Lab


On March 2 Jim Beletic attended meetings for two working groups concerned with the Gemini Multi-Meter Telescope. The Optical Image Working Group and the Acquisition Guiding and Wavefront Sensing Working Group. The meetings were held in Tucson (AZ).

Environmental Science and Technology Lab


Paul Schlamper presented over February “kickoff” meetings for two companies — Geiger International and Niboysan Paint Company — following their receipt of grants from the Georgia Hazardous Waste Management Authority. The grants are for projects related to hazardous waste reductions. He also recently presented an overview of OSHA regulations to the Polk County Chamber of Commerce during its quarterly meeting.

On February 3, Scott Broeck addressed the Association of Official Analytical Chemists’ Seventh Annual Meeting, Southeast Regional Section. He discussed the OSHA Hazard Communication Standard. On February 16, he presented an overview of OSHA inspection procedures to the Atlanta Printing Ink Association.

Mike Lowish was presented the 1992 “Outstanding Service to the Education and Training Committee” award by the Atlanta Chapter of the American Society of Safety Engineers at their February meeting. He was a featured speaker at the meeting, where he put on a practical demonstration of common electrical safety hazards. In mid-January, he conducted a safety seminar on OSHA compliance for the Southeastern Lumber Manufacturers Association.

Microwave and Antenna Technology Development Lab

Dayton Adams and Glenn Hopkins attended the January 10 Technical Program Committee meeting for the 1993 IEEE MTT-S International Symposium, to be held in Atlanta during June. Adams will lead a session on phased and active arrays. Hopkins is serving on the steering committee, and he will lead a session at the MTT-S user group meeting planned in conjunction with the IEEE Symposium.

“A Beam-Forming Network for Mobile Satellite Communications Antennas” was presented in the January 1993 issue of IEEE Communications Magazine. The authors were Glenn Hopkins, Victor Tripp, Julie Walters, and Johnson Wang.

Friends and colleagues wished Jack Dell, right, a happy retirement on February 26 and congratulated Duane Hutchison, left, as he replaced Dell as Associate Director in the Office of Contract Administration. Also pictured are their spouses, Susan Hutchison, second from left, and Lynette Dell, second from right. (Photo by Dayton Funk)

Personnel News

Aerospace Lab

Three new co-ops, Susan Carcione, Curt Nielson, and Steve Turney, have begun work.

Electro-Optics and Physical Sciences Lab

Seven new graduate students have joined the lab. They are: Amy Daniels, Ronaldo Luna, Matt V. Mazurczyk, Lori Stroz Sore, and James Tsai. Image Processing Branch, Kevin W. Bowman, Electro-Optical Devices Branch, and Racnell Soifer, Physical and Atmospheric Chemistry Branch.

Microwave and Antenna Technology Development Lab

William J. Dittman retired on February 26 after 30 years with Georgia Tech.

Threat Systems Development Lab

Ronald J. Poent has resigned. Samuel T. Alford and Robert D. Thompson are scheduled to retire on March 31.

Personal Notes

Our Sympathy

... to Angela Dubose of Research Property Management, whose grandmother died February 6.

... to Duane Patterson (TSD), whose father-in-law died February 17.

... to David Asbell (MATLD), upon the February 21 death of his father.

Cradle Roll

A son, Robert Kyle, was born to Yvonne and Lee Evans (ESM) on January 9.

Pat and Jim Page (RIDL) welcomed a son, Charles Stanley Page, born February 2. Annette and Rickey Cotton (MATLD) welcomed a daughter, Rebekah Anne, born February 20.

A daughter, Caroline, was born to Tracy and Wayne Cassaday (RIDL) on February 21.