

the GTRI connector

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Research Building Dedicated

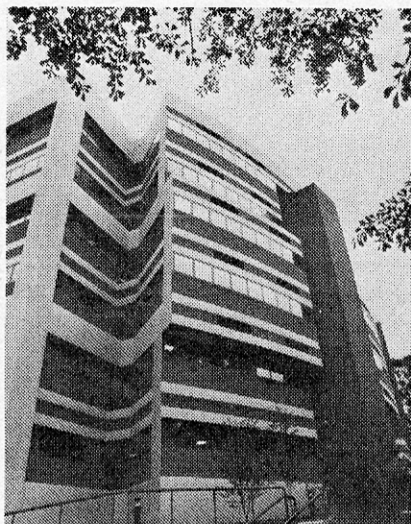
Dedication ceremonies for the new Centennial Research Building were held on Thursday morning, May 23, with a host of dignitaries in attendance.

The new headquarters for Georgia Tech's research operations is owned by the Georgia Scientific and Technical Research Foundation (GSTRF), a nonprofit organization established to fund research facilities for higher educational institutions over the state. Georgia Tech leases the building from GSTRF.

Vice President for Research Thomas E. Stelson gave the welcome, followed by an invocation by George B. Owen, pastor of the Tenth Street United Methodist Church. Dignitaries delivering remarks were GSTRF President Richard K. Whitehead, Jr., Georgia Tech President Joseph M. Pettit, Georgia Governor Joe Frank Harris, University System Chancellor Vernon Crawford, Fulton County Commission

Chairman Michael L. Lomax, and Fulton County Development Authority Chairman C. Clayton Powell.

Plaques were given to 15 persons in recognition of their special efforts on behalf of the new building. Recipients included Governor Harris; Chancellor Crawford; Commissioner Lomax; Authority Chairman Powell; Mr. Whitehead and his fellow GSTRF officers — Thomas H. Hall, III, J. Frank Smith Jr., and Charles M. Lampman; L. W. (Chip) Robert, IV, whose firm, Robert and Company, was the architect for the building; Lawrence L. Gellerstedt of Beers Construction Company, the general contractor; and the following Georgia Tech officials: Dr. Pettit, Dr. Stelson, Associate Vice Presidents for Research Albert P. Sheppard and Jack M. Spurlock, Associate Vice President for Graduate Studies and Research Walter O. Carlson, and GTRI Associate Director



Charles Haynes

Howard G. Dean, Jr.

The ribbon was cut by CAL-80, Tech's trashcan robot, under the guidance of its student programmer, Chris Watkins. A reception and open house followed the dedication.

(Editor's Note: Special thanks go to Robert Hawkins, Tom Jones, and the Facilities Management staff. Without their tireless efforts, the move to the new building would not have been possible).

Christmas Party Study Committee Seeks Input

Dr. Grace has appointed an ad hoc committee to study the annual GTRI Christmas party, and the committee is now seeking suggestions from GTRI employees about the direction this function should take in the future.

Bill Howard, OOD, is chairman. Other members are Carl Baxter, FMD; Mary Ann Burke, RCO; Bob Cassanova, EMSL; Lee Hughey, RCO; Jim Mahaffey, ECSS; Martha Miller, SSD; Bruce Rakes, RAIL; and Bob Zimmer, SEL.

The committee will meet during the next few months to discuss alternatives and make recommendations to OOD.

Employees are requested to provide ideas to any member of the committee by June 15.

GTRI Looking Good, Says External Advisory Board

The GTRI External Advisory Board made its annual visit May 14-15 and concluded that GTRI has a complex mission serving its research clients and the school's academic aims as well as the state's economic needs. But the seven distinguished research leaders decided that GTRI is performing that mission quite well.

After a two-day dialogue, Edward Ungar, Director of Bat-

telle's Columbus, Ohio, division, said, "Among your real assets is the quality of your staff—and it is another unique asset to be able also to draw on the competence of your academic faculty."

David Morrison, President of IIT Research Institute, stressed that an expanding marketplace is one of the key factors for the success of a research operation. He believes the Strategic

Defense Initiative Office, among other opportunities, offers that kind of marketplace.

Morrison mentioned two other factors for success which he felt were embodied in GTRI: building from a strong technical base and having key individuals with strong technical leanings and entrepreneurial outlooks.

Frank Mayadas, Director of the IBM San Jose Laboratories, ticked off several areas which he thought offer promising research opportunities: optical storage for computers, artificial intelligence, very high-speed architecture with either gallium arsenide or a completely changed architecture, improved reliability for computers, and digital signal processing. Mayadas said that making computers fail-safe will be the overriding theme of the remainder of this century.

Charles Johnson, Manager, Advanced Studies & Analysis in the Federal Systems Division of IBM, said he was impressed with the quantity and quality of work in the GTRI labs which he feels have the breadth and skills to do SDI work. He predicted that the ABM Treaty will result in an increased emphasis on building many

systems by simulation. He also suggested that imaging capabilities be pursued, as well as battle management.

William Rambo, Senior Scientific Advisor at the Stanford Research Institute, found enthusiasm in the laboratories he visited. He said that he had saved a 1980 EES Five-Year Plan—and he found a "striking improvement" in the depth of thought in the current five-year plan.

Two of the Advisory Board members, John McKelvey, President of Midwest Research Institute, and Norman Augustine, Senior Vice President of the Martin-Marietta Corporation in Bethesda, had to leave before the general debriefing, where these observations were shared with GTRI's top management team. Six other members were unable to attend.

Mayadas and Augustine are new members on the Board, attending for the first time. Four members are rotating off the Board after several years of helpful advice. They are Johnson, Rambo, McKelvey, and George Dieter, Dean of Engineering at the University of Maryland, who missed the meeting this year.



Charles Haynes

Outdoors it was murky, but inside it was rosy on the day the GTRI External Advisory Board posed atop the CRB during their visit May 14-15. L-R: Norman Augustine of Martin-Marietta Corp., Frank Mayadas of IBM San Jose Research Lab, David Morrison of IIT Research Institute, John McKelvey of Midwest Research Institute, Don Grace of GTRI, Edward Ungar of Battelle, William Rambo of SRI, and Charles Johnson of IBM.

Electronic Bus to Control Home of the Future

by Bill Butler, ECSL

The "home of the future" will become increasingly automated and computerized, and a vital link will be a gadget called an electronics bus. Under a project for the Electronic Industries Association (EIA), Bill Butler of the Communications Systems Division of the Electronics and Computer Systems Laboratory (ECSL) is formulating a standard for a consumer electronics bus.

This bus, which can be described as special wiring for the home, will allow the consumer to place heating, air conditioning, home security systems, and home entertainment equipment under computer control. ECSL's involvement has included surveying existing computer-controlled busses for the home, studying the feasibility of the consumer electronics bus concept, and assisting an industry-wide committee in writing a consumer electronics bus standard.

Busses Surveyed

The survey of related busses included a number of popular existing products as well as products that are still in developmental stages. Due to the highly competitive nature of the industry, most evaluations were conducted under non-disclosure agreements.

One of the areas emphasized

in the survey was data communications protocols, which can be thought of as a set of rules for communicating over the bus. The home control bus connects low-cost microprocessors typically found in appliances exchanging low-speed data. In terms of what the consumer sees in his house, the protocol makes sure that when the television is instructed to turn on, the toaster does not turn on instead.

Feasibility Studied

In looking at the feasibility of the consumer electronics bus, ECSL researchers examined such issues as its cost, its utility, and customer acceptance. Since consumer electronics is a very competitive industry, one of the chief concerns of the manufacturers surveyed was that the cost of making products compatible with the bus be very little more than the cost of making similar products that are not bus-compatible. Many consumer products already use microprocessors, and often all that is needed to make the product bus-compatible is to add more memory for program storage and some minimal interface circuitry at a very low incremental cost.

"Home of the Future"

One of the most interesting parts of the project was looking at possible uses for the bus. It was easy to let imagina-

tion run rampant, especially after seeing some of the "home of the future" studies that have been done.

Some of the applications might involve increasingly sophisticated climate control, energy management, home security, and home entertainment. The most promising applications have high potential for offering increased consumer convenience or cost savings. For example, smart climate control systems are being proposed which continuously learn the room occupancy habits of consumers and adjust the temperature of the room accordingly. If a room is occupied, airflow to that room is increased, and airflow to other parts of the house is decreased. If a room is not occupied but soon will be, based on the computer's memory of the habits of the consumer, then airflow to that room also would be increased so it would be comfortable when the consumer got there.

In spite of the potential for saving money or for increased convenience, the consumer might not want to have the bus in his home for several reasons. If the cost and inconvenience of getting the bus installed are too high, if the bus is not esthetically pleasing, or if the bus requires extensive knowledge to operate it, then consumers will be

reluctant to use it.

Setting Standards

Currently, ECSL staff is working with an EIA committee comprising representatives from a wide variety of consumer electronics companies in order to write a recommended standard for a consumer electronics bus. The standard will be split into three categories: a single-room bus, a wired bus, and a power-line bus.

The single-room bus most likely will use free-space, infrared light as the communications medium, and as the name implies, will operate in one room only. For extending the bus to other rooms of the house, the wired bus or power-line bus is required. The power-line bus uses the ac power lines as its communications medium. It is particularly useful for retrofitting the bus to existing homes (as opposed to homes under construction) because no new wiring must be added to the home. The wired bus requires new wiring; it is intended for homes under construction or for the consumer who is willing to bear the cost and inconvenience of rewiring an existing home.

The standard for the power-line bus is expected to be released sometime this year, and the standards for the other two busses are expected to follow in 1986.

States Discuss Asbestos Problem

The Environmental Health and Safety Division (EHSD) of the Economic Development Laboratory is leading the way nationwide with meetings addressing environmental problems.

Governors of more than half the country's states sent representatives to Atlanta April 24-25 to discuss the thorny asbestos problem. The conference, cosponsored by the Environmental Health and Safety Division and Georgia Governor Joe Frank Harris, drew 75 representatives of 27 states, Puerto Rico, five federal agencies, and three industrial associations.

Bill Ewing, head of EHSD's Asbestos Information Center, said the conference fostered an exchange of ideas and information to help the states deal effectively with the problem of asbestos in buildings. Two principal concerns were the need for licensing of abatement contractors and the difficulty that persons engaged in containing or removing the fibrous mineral have in obtaining liability insurance.

Conference attendees agreed unanimously that contractor training and certification programs are necessary for effective abatement, Ewing said. Some states already have established guidelines or enacted legislation requiring contractor licensing.

The reluctance of insurance firms to provide liability protection in the face of recent large court awards to workers claiming asbestos-related illnesses threatens to halt asbestos abatement efforts, Ewing added. In Georgia alone, plans to spend \$15 million to remove asbestos from public schools this summer are in jeopardy because almost no one will write liability insurance for the work. Some conference attendees suggested establishing assigned risk pools at the state level whereby insurance companies would take turns writing policies.

The National Asbestos Council tentatively consented to host a second meeting in conjunction with its technical conference scheduled for Tampa, Florida, in September.

RESEARCH BRIEFS

The State Geologist's Office in the Georgia Department of Natural Resources has awarded the Agricultural Technology Branch of the **Economic Development Laboratory** a one-year, \$64,000 contract to inventory Class V drainage wells statewide. "Our efforts will be concentrated in the southern half of the state, where well-supplied drinking water is prevalent," said Project Director John Adams.

The Georgia Tech team will survey approximately 10,000 rural businesses to determine current practices in waste and drainage water disposal. A mail survey will be followed by a limited number of phone calls and a still more limited number of site visits to validate data and collect additional information.

The contract forms part of a U.S. Environmental Protection Agency-funded national program to evaluate the magnitude of surface water disposal wells in states depending heavily on underground aquifers for potable water.

Results of the study will be used to predict trends in underground water availability and quality.

The Electromagnetic Effectiveness Division of the **Electronics and Computer Systems Laboratory** has received a \$750,000 contract to design antennas for the NASA space station to be launched in the 1990s. Under the contract with the Johnson Space Center (JSC) in Houston, ECSL engineers will develop and evaluate designs for antennas to support navigation and communications with astronauts performing space walks close to the space station, with close-in support vehicles, and with longer-range vehicles at distances out to 2,000 kilometers from the station. William P. Cooke is project director.

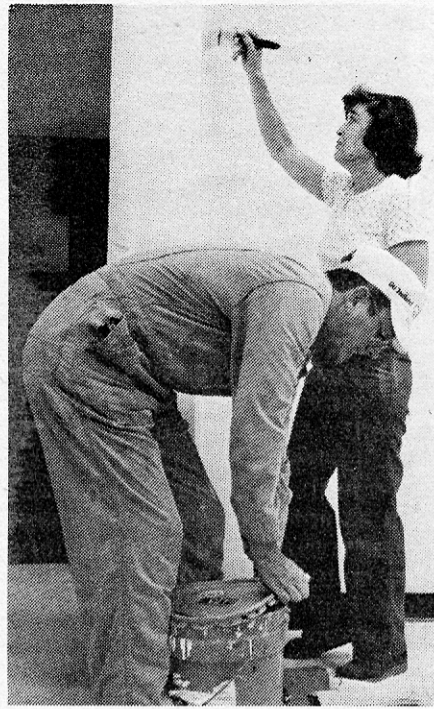
Under a companion contract, ECSL will provide technical consultation services to JSC during the procurement and installation of a large planar near-field measurement facility at the NASA Houston complex.

ECSL Consolidates in ERB

What do you do when you move into offices vacated, after long tenancy, by somebody else and there's no money to have the space refurbished? If you belong to two divisions of the Electronics and Computer Systems Lab (ECSL) that moved in late April into the Electronics Research Building, you do it yourself!

Due to the drain on Facilities Management funds resulting from extensive previous moves this year, there was money enough for paint, but not for labor. This did not deter the Electromagnetic Effectiveness Division, which moved from the Baker Building, and the Command and Control Division, which moved from O'Keefe. Supplies of paint, buckets and brushes were made available, and their staffs went to work.

The freshly painted offices are an inspiring environment, with SEL yellow supplanted by sparkling white. Besides, how many buildings have been painted by PRE's, SRE's and research engineers? Special awards for coordinating this effort go to divisional secretaries

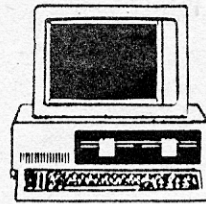


By Mark Pellegrini

Jim Coleman and Barbara Call wield brushes at the ECSL painting party.

Barbara Call, Beatriz Gonzalez, and Nancy Stegall.

This move consolidates five of the six ECSL divisions into one building. Biomedical Research is located in the new Centennial Research Building.



Software Review

by Pat Mathiasmeier

With more and more departments on campus getting microcomputers for the first time, classes in the Research Software Training Facility are in great demand and are filling up fast. Classes are scheduled for every working day in June.

The schedule is always in *The Connector* and also is available electronically on PROFS. If you are interested in signing up for a class, be sure to call early (ext. 6206).

Classes are offered at all levels of proficiency. For the beginner, we have the Basics of Computer Literacy. For those a little more familiar with the computer, there are two levels of dBASE II. Continuing our monthly review of selected courses, these classes are described below.

Basics of Computer Literacy

This course takes a layperson's approach to computers, discussing what a computer is, how it works, and what it can do. The fundamental components of a computer and their interrelationships are covered. Commonly used computer jargon is defined. Students receive hands-on exposure to computers by run-

ning a few programs. Other topics include how to select computers relevant to specific needs and requirements. Prerequisites: None. **dBASE II**

Courses are offered in beginning and advanced dBASE II. A relational database management system is an important item in the tool kit for the microcomputer. dBASE II can be used for straightforward data recording and retrieval, or it can be employed for sophisticated database updates under program control, using the English-like commands of the dBASE II programming language. dBASE II is the *de facto* standard for microcomputer database management.

In the beginning dBASE II course, the novice user is introduced to the concept of database management and typical applications of dBASE II. The course covers how to set up a database file structure, how to enter data, how to use the dBASE II commands interactively, and how to generate reports and edit data. Prerequisites: Beginning DOS is suggested.

Advanced dBASE II goes into greater detail on database design considerations and covers various programming techniques used in programming dBASE II. Students will build a menu program and write a simple data processing system, including transaction entry, master file updates, and reports to run on the data base they have created. Prerequisites: Beginning dBASE II.

PROFESSIONAL ACTIVITIES

ECONOMIC DEVELOPMENT LAB

At the spring meeting of the National Productivity Network at Penn State University, **Jim Muller** reported on activities of the Georgia Productivity Center and spoke on using microcomputers for intra-network communications.

Claudia Huff and **Carol Aton** led a panel on "International Technical Training: Finding What Works" at the 32nd annual International Technical Communication Conference, held in Houston in May.

The spring issue of *Performance Management* magazine carried an article by **Johanna Thomas** based on an interview with Gary Lapham, an authority on management and goal setting.

William Spain, **Bill Ewing** and **Eva Clay** coauthored an article on heat stress for the April issue of *Occupational Health and Safety*.

Charlene Bayer and **Marilyn Black** were session moderators at the annual ACDG Chromatography Symposium May 15. Dr. Bayer presented two papers: "Capillary GC and GC/MS for Indoor Air Pollution Monitoring" and "Environmental Monitoring by Ion Chromatography." In April, Dr. Black provided research findings on "Outgassing of Formaldehyde from Consumer Products" to the Formaldehyde Task Force in Washington, D.C.

At the Southeastern Region Occupational Safety and Health Administration (OSHA) Consultation Conference on April 10, **William Spain** made a presentation on asbestos and **John Nemeth** made a presentation on the hazardous waste on-site consultation program. Dr. Nemeth also spoke on the program in early May at the

EPA's Office of Waste Program Enforcement in Washington, D.C.

On April 11, **Dave Jacobs** spoke on the monitoring and control of ethylene oxide at the Southeastern Hospital Association conference, as well as a presentation on hearing conservation and OSHA noise regulations at the Doctors' Memorial Hospital Hearing and Speech Center.

ELECTROMAGNETICS LAB

Congratulations to **Lee Mauldin**, who has won the Sigma Xi award for undergraduate research. A student assistant in the Molecular Sciences Branch, he coauthored a paper with A. R. Ravishankara, entitled "Absolute Rate Coefficient for the Reaction on NO₃ with t-2 Butene," that is now in press in *The Journal of Physical Chemistry*. Mauldin did virtually all of the laboratory work on the study, using a complicated argon ion laser pumped dye laser system coupled to a fast-flow reactor. According to the letter recommending him for his award, "Lee not only ran the experiment, but also independently identified several problems with the apparatus and suggested possible improvements. Contributions of this quality are seldom made by undergraduate students." He is a chemistry major.

John Gilmore was chairman of the Applications of Artificial Intelligence Conference held in Washington, D.C., April 8-12 and co-chairman of the 5th International Expert Systems Conference held in Avignon, France, May 12-18.



He also has been nominated for governor of the Society of Photographic Engineering.

ELECTRONICS & COMPUTER SYSTEMS LAB

In March, **Jim Toler** chaired an invited technical session at the European Symposium and Technical Exhibition on Electromagnetic Compatibility held at the Federal Institute of Technology in Zurich, Switzerland. The session, titled "Electromagnetic Wave Interactions with Biological Systems," featured nine papers written by researchers from the U.S.A., China, Yugoslavia, France, Italy and Australia. Toler also did contract development work in Dieren, Holland.

Norman Ellingson was installed as president of the Atlanta chapter of the Armed Forces Communications and Electronics Association in ceremonies at Fort McPherson on April 25. Dr. Jon L. Boyes, Vice Admiral, USN (Ret.) and international president of AFCEA, flew in from Washington, D.C., to preside over the installation. The Atlanta chapter is one of the more than 100 chapters comprising AFCEA International, the leading association of professionals in the field of command, control, communications and intelligence.

Jim Mahaffey is presenting an invited paper, entitled "Real-Time Playback Analysis of a Nuclear Plant Automatic Shutdown," at the Third European RoIm Users' Group Conference in Schwalbach, West Germany. Dr. Mahaffey and his



project team recently completed installation of the ECSL-developed Safety Parameter Display System in the control room of Georgia Power Company's Nuclear Plant Hatch.

MINICOMPUTER SERVICE FACILITY

John Barkshadt reports that MSCF hosted Computer Corporation of America's classes in MODEL 204 User Language and File Management during the weeks of April 15 and 22. Barkshadt, who manages CCA's MODEL 204 database on the IBM 4361, says the classes were attended by representatives of OCA, RSD, ISA, RCO and MCSF.

OFFICE OF DIRECTOR

Jim Wiltse was general chairman of the SPIE Millimeter Wave Conference in Arlington, VA, in April, and gave a paper on "Fresnel Zone Plate Lens." He is a member of the Technical Program Committee for the IEEE International Symposium on Microwave Theory and Techniques, to be held in St. Louis, and will chair a session on "MMW Integrated Circuits" on June 6. Dr. Wiltse also has been named United Way chairman for Georgia Tech.

RADAR & INSTRUMENTATION LAB

At the American Defense Preparedness Association Joint Government/Industry Symposium on Physical Security in April, **Gene Greneker** and **Frank Williamson** gave papers entitled "Planning for the Airborne Threat: Analysis Tools for Optimization of the Early Warning and Tracking System" and "The Development of a Netted/Automated Base Defense Surveillance System Concept." Coauthors were **Billy Statham** and **Nick Currie**.

PERSONNEL NEWS

ECONOMIC DEVELOPMENT LAB

Elliot Price, formerly with the Douglas regional office, has become director of the Augusta office in the wake of the departure of **David Poss** in early April.

ELECTROMAGNETICS LAB

Chris Summers has been appointed chief of the Physical Sciences Division.

Transferees from TAL to the Millimeter Wave Technology Division are **Dale Atkins**, **Jim Clark**, **Wiley Holcombe** and **Larry Banta**.

ELECTRONICS & COMPUTER SYSTEMS LAB

The Electromagnetic Compatibility Division welcomes **Diane Karnebo** as administrative secretary, and the Command and Control Division welcomes **Jackie Perkins** as a student assistant in computer science.

In April, **Cheryl Taylor** joined the Electromagnetic Effectiveness Division as a research engineer II half time. She has a B.S. from the University of Louisville in computer science and electrical engineering, and has done graduate work in information and computer science

and weaving. Her knowledge of textile engineering and computer design are expected to be especially valuable in the application of textile circuit analog design and camouflage cloth production within the Signature Suppression Branch.

Lori Bartlett has resigned.

RADAR & INSTRUMENTATION LAB

Welcome to **Susan Williams**, a new research engineer I in the Modeling and Simulation Division, and the following new hires in the New Jersey office: **Ralph Getchell**, electronics technician III; **William Quinn**, research engineer I; and **Barbara Schroeder**, senior secretary.

Congratulations to **Jim Demmers** on becoming a research associate I and to **Molly Gary**, who is now a full-time RS I; also to **Martin Brooks**, who has been promoted to computer programmer II.

Margaret Horst is now back full time following the birth of her son in December.

SERVICE GROUPS

Personnel Services has had its name changed to Human

Resources Department. **Jean Fuller** and **Charles McCullough** have transferred to HRD, and **Gay McLarin**, former administrative secretary in the College of Architecture, is the new staff assistant. Joining HRD full time as a word processor operator is **Vergil Daughtery**, former student assistant.

SYSTEMS & TECHNIQUES LAB

Carey Floyd, secretary to the director of STL, has been promoted to administrative secretary.

SYSTEMS ENGINEERING LAB

Larry Gallaher retired in March after nearly 22 years at Georgia Tech. He was a senior research scientist in the Defense Systems Division and a part-time teacher of programming languages in the School of Information and Computer Science.

Mary Ann Ingram was nominated SEL Employee of the Month for her outstanding performance on a con-

tract to provide electronic countermeasures consulting to the LORAL Corporation.

The Electronic Support Measures Division welcomes Senior Secretary **Angela Combs** and Co-op **Alan Brand**. **Pat Page** has resigned.

New to the Defense Systems Division are Co-op **Scott Smith** and Electronics Technician I **Rick Wilson**. **Neil Lareau** has resigned, and **GRA Glen Ross** has transferred to ECSSL. The Division also congratulates **Ken Thompson** and **Gary Holladay** for earning their master's degrees.

Other new SEL employees include the following: **Cynthia Rogers** transferred from the Personnel Services Department to become a budget analyst in the Office of the Director. **Sharon Neu** transferred from Institute Relations and Development to work as a word processor operator in the Advanced Countermeasures Branch. **Dennis Hancock**, former co-op in the Elgin Field Office, has joined the Advanced Programs Office as a graduate research assistant.



McCree Shows "Right Stuff"

Cynthia McCree, an administrative secretary in the GTRI Office of the Director, is gaining national exposure as the exemplification of a smart young black woman on her way up the career ladder. She is one of three young women who will be featured in the August issue of *Essence* magazine.

In April, Cynthia received an all-expense-paid trip to New York, where she was interviewed on her work history for an article and fashion spread of clothes for the career woman.

A native of Ithaca, N.Y., Cynthia attended Cornell University. She also went as an exchange student to West Africa, where she taught school and attended the University of Liberia.



Special Photo

Cynthia McCree in a fashion pose.

Cynthia came to Georgia Tech in July 1983 as a personnel assistant in GTRI's Personnel Services Department. She moved to OOD in September 1984, and currently is secretary to the Assistant Director Administration.

Tech Recognizes GTRI Employees

Among those honored at the annual Georgia Tech Retirement Dinner on May 20 were five GTRI employees who already have retired, or will be retiring, in FY 1985. They are **Archie Corriher**, RAIL; **Larry Gallaher**, SEL; **Lydia Geeslin**, STL; **Conrad Meaders**, STL; and **Bill Ward**, OOD. GTRI will honor them at a Retirement Reception on June 27.

This year there was a separate Faculty/Staff Honors Luncheon on May 21. Receiving Gold-T pins for 25 years of service were **Billy Boner**, Supply Services; **Hugh Den-**

ny, ECSSL; **Harvey Diamond**, EDL; **Jim Hubbard**, EMSL; **Lillian Johnson**, Accounting; **Bob Shackelford**, OOD; and **Frank Williamson**, RAIL.

Recipients of the 1984 GTRI Research Awards also were recognized at the luncheon. They are **Marilyn Black**, **Bob Lann**, and **Rachel McCain**, EDL; **Bob McMillan**, EML; **Mike Tuley** and **Judy Truett**, RAIL; **Bud Sears** and **Judy Wiesman**, SEL; **Pat Burns**, STL; **Bill Larson**, TAL; and **Jackie Erney**, Research Communications.

PERSONAL NOTES

March 23 was the date of two GTRI weddings. **Pike King** of SEL's Countermeasures Development Division was married to **Lynn Johnston**, and **Don Pital** of ECSSL's Computer Technology and Applications Division was married to **Angela Smith**.

Two members of ECSSL's Electromagnetic Effectiveness Division became fathers on April 23. **Sandra** and **Tom Wells** welcomed **Elizabeth**

Gail, and **Kate** and **Brian Shirley** welcomed **Joseph Carl**.

Also in ECSSL, **Pat Elam** and his wife, **Kay**, have been accepted by DeKalb County to be foster parents. They have one son of their own and are very interested in child development and family life.

In EDL, **Bonnie** and **Elliot Price** are the happy parents of their first child, **Amy Michelle**, born May 2. **Elliot** directs the Augusta office.

HELP YOURSELF!

Training Programs for GTRI Employees

Software Training

Computer Literacy (9-12): June 5, 26.
GTIMS (9-4:30): June 3.
Beginning PROFS (10-12 or 2-4): June 7.
PROFS Scheduling (10-12 or 2-4): June 14.
PROFS Document Mode (10-12 or 2-4): June 21.
Beginning DOS (1:30-4:30): June 13, 24; (9-12): June 24.
Advanced DOS (1:30-4:30): June 5, 26.

Beginning dBASE II (9-4:30): June 6.
Advanced dBASE II (9-4:30): June 25.
Lotus 1-2-3 (9-4:30): June 4.
Symphony (9-4:30): June 27-28.
LISP (9-4:30): June 10-12.
Volkswriter (9-12): June 20.
Wordstar (9-12): June 13.
Advanced Wordstar (1:30-4:30): June 20.
C Programming (9-4:30): June 17-19.
 To register, call Research Software Training Facility, ext. 6206.

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How to Schedule Conference Rooms

Persons who wish to schedule meetings in any of the conference rooms in the Centennial Research Building should contact the following people:

Room 238 (Main). **Lettie Hawkins**, ext. 3876. Seats up to 50.
 Room 215 (GTRI/OOD). **Cynthia McCree**, ext. 3411. Seats 18-20.
 Room 292 (VPR). **Voncile Patrick**, ext. 4825. Seats 15-20.

Room 303 (OIP). **Lettie Hawkins**, ext. 3876. Seats 20-35.
 Room 403 (GTRI/SEL). **Darlinda Guidry**, ext. 3524. Seats 20-35.
 Room 503 (GTRI/SEL). **Susie Calvert**, ext. 7210. Seats 20-35.
 Room 603 (GTRI/SEL). **Martha Jeane Giglio**, ext. 3586. Seats 20-35. Furniture on order.

For special facilities needs, contact Building Manager **Rusty Embry**, ext. 7325.