

the GTRI connector

Published monthly for employees of the Georgia Tech Research Institute

Volume 3 Number 9

July-August 1987

Grace Notes

Welcome to President Crecine

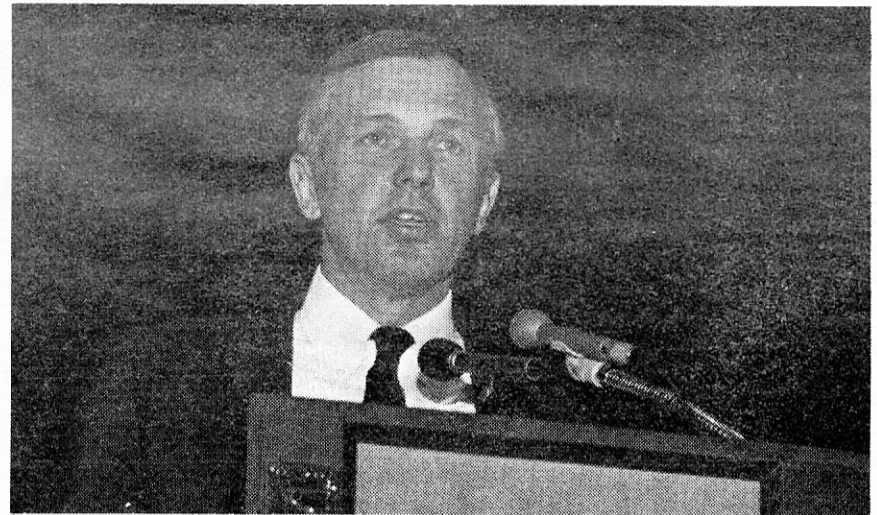
It was my sad duty in the September 1986 issue of the *Connector* to offer tribute to President Joe Pettit. At that time, I stated that GTRI had "lost its most articulate champion, consistent supporter, and effective critic." In that same article, I urged that we continue striving toward the aspirations that Dr. Pettit had for us.

As we move into Georgia Tech's second century, I'm very pleased to report to you, our staff, that I believe Georgia Tech's ninth president, Dr. John Patrick Crecine, will continue that concern and leadership for us. I have had the privilege of visiting with him about GTRI and its integral connectivity with the rest of Georgia Tech. He is enthusiastic

about our past accomplishments, wants to learn more about our activities, and already has offered ideas concerning our growth in quality and stature.

Dr. Crecine is certainly no stranger to research, having published at least seven books and monographs, 32 articles and book chapters, as well as a dozen major reports. He has written on such diverse subjects as DoD resource allocation processes, communications and organizational behavior, computer simulation and urban research, and C3I capabilities and vulnerabilities.

He has been associated with the University of Michigan, Cambridge University, and Stanford University, as well as Carnegie-



Dr. John Patrick Crecine addresses the Tech community. (Photo by Joe Schwartz)

Mellon. He has worked for the Rand Corporation, the U.S. Department of the Budget, and U.S. Department of Commerce, and was a Fellow at the Center for Advanced Study in the Behavioral Sciences.

I'm sure you will all join me in welcoming Pat Crecine and his family to Georgia Tech.

Donald J. Grace

Director, GTRI

Devon Crowe Named EML Director

Electro-optics expert Devon G. Crowe has been appointed director of the Electromagnetics Laboratory, effective September 21.

He brings to the position 15 years of experience in the research, development and management of high-technology projects in the areas of optical and infrared imaging systems, image processing, and system analysis and simulation.

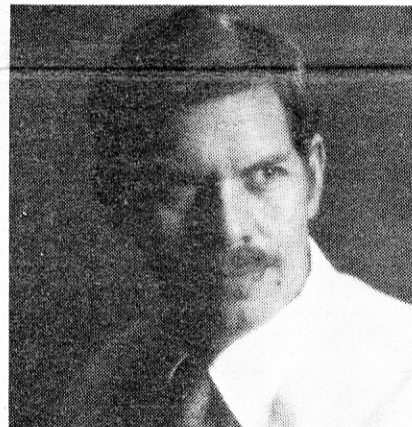
GTRI associate director Robert G. Shackelford has been acting director of EML since last fall, when Walter Cox resigned the position to become director of Tech's Microelectronics Center. Shackelford also headed the committee which conducted a na-

tionwide search for the new EML chief.

"We are fortunate to gain a lab administrator with such strong skills in technical innovation, interdisciplinary integration, and management," Shackelford says.

Crowe worked from 1980 to the present at Science Applications International Corporation, where he rose to general manager of the Technical Analysis Division in 1985. Concurrently, he was adjunct lecturer in the Optical Sciences Center of the University of Arizona.

He previously was chief of Systems Development and Operations at Bell Technical Operations TEXTRON. Other ex-



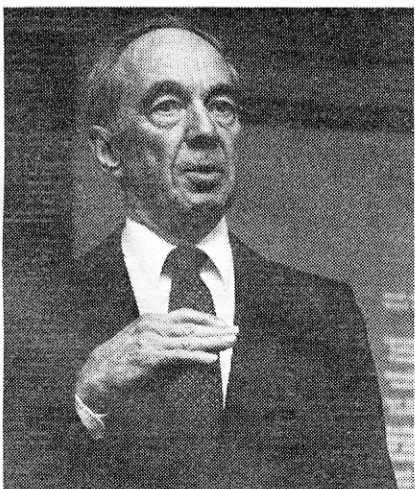
New EML Director Devon Crowe

perience includes a senior research assistantship at Kitt Peak National Observatory and a four-year stint in the U.S. Air Force as deputy commander of the Titan II missile complex.

Crowe received his B.S. in astronomy and mathematics, his M.B.A. in operations management, and his M.S. in optical sciences from the University of Arizona. He is a senior member of the Institute of Electrical and Electronics Engineers and a member of the American Astronomical Society. He also belongs to the Optical Society of America, the Society of Photo-Optical Instrumentation Engineers, and the American Association for the Advancement of Science.

He is the author of two books under the Wiley imprint. *Optical Radiation Detectors* was published in 1984, and *Imaging Techniques and Systems* is in preparation.

Bourne Hails Dawn of a New Day



Acting president Henry Bourne explains Tech Long-Range Plan to GTRI senior staff. (Photo by Joe Schwartz)

GTRI will continue to serve as an important research component of Georgia Tech, acting president Henry C. Bourne assured GTRI senior staff on August 4. Dr. Bourne met with the staff to discuss financial ramifications of Tech's academic and research Long-Range Plan.

Hailed as "the dawn of a new day" by Dr. Bourne, the Long-Range Plan maps a course for Georgia Tech through the year 2000. The ambitious plan calls for adding academic faculty and staff, and doubling Tech's research programs.

The proposed increase in research volume from \$100 million to \$200 million will be

shared between resident instruction and GTRI. Approximately 55% of the research budget is now within GTRI, but this ratio may change, depending on the scope and nature of future programs.

Tech's Long-Range Plan calls for an increase in instructional faculty from 550 to 875 and an increase in academic research faculty from 204 to 350. GTRI faculty is expected to grow from 559 to 1,000.

Research Versus Teaching?

Asked whether Tech was maintaining a proper balance between its research and teaching programs, Dr. Bourne stated, "I refuse to admit a dichotomy between research and instruction. I think they are mutually reinforc-

ing."

Dr. Bourne referred to a recent study of the University of California System which stated that too much emphasis was placed on research and not enough on the quality of undergraduate instruction. He stressed, however, that it is indeed possible to have both excellent instruction and excellent research at one facility.

"People jump all over my old school about this," he quipped, "but it had an excellent undergraduate program . . . Those of us who went through the undergraduate program at MIT just thought it was absolutely topnotch, and yet it is also a premier research facility. So, it can be done."

See "Dawn," page 3

Grants Aid Development of Computer Applications in Medicine

It's a revolutionary approach developed in a Georgia Tech lab: joining X-rays and nuclear images to form a three-dimensional picture of the heart. The result is a visual aid to help doctors diagnose coronary artery disease.

The researchers who are creating the new 3-D diagnostic technique are Dr. Norberto Ezquerra, a Georgia Tech physicist, and fellow researchers from Tech and Emory.

"Currently, doctors must look at two-dimensional X-ray images and form a 3-D mental picture of the structure of the patient's arteries. Then they must integrate this structural information with functional information gleaned from nuclear images of the blood flow through the heart muscle," says Ezquerra. "This is a subjective, information-intensive task that generally requires significant clinical expertise."

Biomedical Seed Grant

The joint Tech-Emory Biomedical Technology Research Center awarded the collaborators a seed grant in July to develop a unified approach to cardiac imaging. The research team is developing a computer-based

methodology to fuse and visualize patient-specific 3-D information from the X-rays and nuclear images in a consistent, standardized fashion.

The Georgia Tech component of the team includes Norberto Ezquerra, who has just transferred from ECSL to the Office of Interdisciplinary Programs; John Peifer and Mike West of RAIL; GRAs William Briggs (ICS) and David Cooke (EE); and Dr. Luis Jofre, a Fulbright scholar from Spain who has been working on this and other projects in GTRI and in the School of Electrical Engineering. Emory participants are Drs. Ernest Garcia, Gary Roubin, Spencer King, Gordon DePuey, and Larry Klein.

But visualizing the problem is only part of the solution, the researchers say. Interpretation of the images and diagnosis are the key.

A couple of years ago, Dr. Ezquerra and his colleagues at Emory began developing a knowledge-based approach to interpreting nuclear images of the heart. They developed a preliminary expert system based on studies of 300 patients with



Georgia Tech personnel involved in developing a computer-based method for 3-D integration and display of information about patients' hearts look at the computer monitor in front of a poster illustrating their work. Standing (L-R): Will Briggs, John Peifer, David Cooke. Seated: Norberto Ezquerra, Luis Jofre. (Photo by Joe Schwartz)

coronary artery disease, then tested the system with another 50 patients. The expert system agreed with the diagnoses of medical experts 90% of the time.

NIH Award

Officials of the National Institutes of Health were so impressed with Ezquerra's efforts that they have just given him a FIRST (First Independent Research Support and Transition) award to continue his work on the application of artificial intelligence to medicine. The

prestigious award is intended to provide young investigators with support to pursue innovative research and to enable them to make the transition to nationally recognized, established researchers in their field.

The NIH grant will enable Dr. Ezquerra to pursue his work for five years with the anticipated assistance of Emory collaborators, graduate students, and scientists from Georgia Tech, including John Gilmore of the AI Branch of EML.

Bromine Chemistry: Possible Key to the Antarctic Ozone Hole?

by James E. Kloeppel, RCO

Research scientists Paul Wine, Mike Nicovich, and Tony Hynes in the Electromagnetics Laboratory are studying some chemical reactions of bromine that may be responsible for ozone destruction in the Earth's upper atmosphere.

The Earth's protective blanket of ozone is essential to life, screening out much of the sun's harmful ultraviolet radiation. But for some unexplained reason, the ozone concentration in the stratosphere above Antarctica has been dropping precipitously during spring in the Southern Hemisphere.

"A possible explanation for how you can lose so much

ozone," says Wine, "is a catalytic reaction involving bromine monoxide (BrO) and chlorine monoxide (ClO)."

These two highly reactive chemical compounds, commonly found in the Earth's atmosphere, are produced by the photochemical degradation of halocarbons. Most halocarbons are man-made and include such products as fire extinguishers and refrigerants.

Wine explains that through a series of reactions, the bromine and chlorine monoxides could catalytically break two molecules of ozone into three molecules of diatomic oxygen. Because they act as catalysts, neither the BrO nor ClO is consumed in the process; both may continue to react

and destroy more ozone.

To determine how effectively the BrO + ClO reaction destroys ozone in the Antarctic, Wine's group will use a novel method based on laser photolysis to generate the BrO and ClO radicals, then follow the course of their reaction using modern spectroscopic techniques. The scientists are attempting to measure how frequently the two species react under polar conditions, and also how often the reaction branches to a nondestructive product, chlorine dioxide (ClO₂).

"The technique we have developed involves a pulsed laser photolysis method for creating the radical species," explains Wine. The chemical "soup" from

which the radical species are formed is pumped into a small reaction chamber. The mixture is photolyzed by the blast from a powerful laser, and the newly formed BrO and ClO then undergo the desired reactions. To simulate the extreme cold of the Antarctic night, the reaction chamber is kept around a frigid -110°F by chilled methanol flowing through a surrounding jacket.

By analyzing the spectra received by a diode array spectrometer, the scientists can compare the relative chemical concentrations as a function of time after the laser pulse. Their experiments may provide an important clue to unraveling the mysterious ozone phenomenon.

Budget Templates Speed Proposal Preparation

A team of GTRI researchers, working on a contract directed by Dr. Albert Sheppard, Associate Vice President for Research, has developed Lotus 1-2-3 templates which can speed up and simplify preparation of proposal budgets.

Three templates are available for downloading from PROFS. The first is named OCADATA.WKS. This data file is constantly maintained by the Office of Contract Administration (OCA) and contains the current contract cost estimate rates and projected rates for the next two fiscal years. It should be

downloaded frequently to ensure that the data used in proposals is current.

The second is called BUDGET.WKS. This template contains standard forms for GTRI proposals being submitted to external sponsors. It needs to be downloaded only once each fiscal year. It automatically links to OCADATA to obtain the latest rates and then calculates the budget in the format required by OCA.

The third template, SCHOOLS.WKS, is for use by the academic community preparing research proposals to spon-

sors. It also links to the OCADATA file automatically.

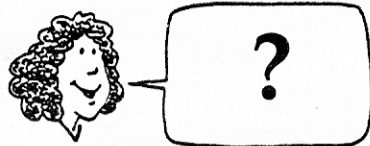
These budget templates are now available for downloading from PROFS on the GTRI IBM/4381 using the Kermit communications package. The templates are provided free of charge to any interested user who also owns a copy of the Lotus 1-2-3 software (or generic work-alikes). Instructions for downloading appear on the main PROFS menu under the PF8 key: "Sponsored Research Information."

An advanced experimental ver-

sion of BUDGET.WKS also is available to drive an expert system. Key data from the template are lifted off into an artificial intelligence environment for processing against a layered knowledge base. The resulting budget analysis can suggest changes to the budget prior to final submission to a sponsor. A demonstration of this AI capability is available on request to Ed Anderson at 4-2375.

For further information on accessing the templates stored on the IBM/4381, please contact John Dillard, 4-7172.

QUESTIONS, ANYONE?



by Charles McCullough, HRD

Q: I understand there have been some changes in policies regarding hiring salaries and promotions and salary increases for classified employees. Can you explain?

A: Gladly. But you've added a whole new dimension to the definition of "under-statement" by referring to the new Compensation Policy for Classified Employees as having undergone "some changes"; wholesale revamping describes it better.

First, here's what hasn't changed. Most classified positions still have assigned pay ranges that establish the minimum, midpoint and maximum salaries for those positions. The title assignment to any classified position is still determined by the Personnel Division's Classification

and Pay Analysis Section, and any change to a position's title must be approved in advance by Personnel. If the position you occupy is reclassified to a higher graded pay range (such as from Accounting Assistant to Accountant I), you would be eligible for a pay increase only if you're earning less than the minimum for the new position title. That's about the extent of the similarities between the Compensation Policy last year versus this year.

Here's what has changed: In the past, a new classified employee (a candidate selected right off the street, so to speak, although I've seen a few who fit that description perfectly . . .) could be hired up to the midpoint salary of the position for which they had been selected. Effective this year, a new employee may be

hired up to the midpoint salary or whatever is in the vacant position's budget, whichever is less. To oversimplify, the candidate's proposed salary can be whichever is the smaller dollar amount: the midpoint salary or the salary the last person in that job was earning.

Since the general attitude is that folks brand new to Tech can fend for themselves, let's take a look at what happens when you, a current Tech employee, are taking a close, hard look at the Job Bulletin trying to see if there's a possibility of a promotion down the road.

In the past, it was generally assumed that if a classified employee transferred into a higher graded position (the technical lingo for this being "transfer and promotion" and, yes, the underscore is required in order to maintain the integrity of the phrase), the promotion would result in a 10% salary increase. Beginning this year, however, if you're considering a transfer and promotion, you would be eligible to be considered to receive a salary increase provided your new salary does not exceed the midpoint

salary of the new position or your new salary does not exceed whatever is in the position's budget, **whichever is less.** Translation: if you're a Senior Secretary eyeing five different Administrative Secretary positions in the Job Bulletin, each of those five positions probably has a different dollar amount in its respective budget. Each of those five positions, therefore, probably has a completely different salary increase potential. In fact, a transfer and promotion into one of those positions has the potential of resulting in a salary **decrease** if the last person in that position was earning less than you're earning now!

If you're sitting there saying, "Big deal. I'd just ask the interviewing supervisor to request an increase in the position's budget so the promotion would result in my getting the raise I deserve!" you'd better be aware that this entails "an exception to policy resulting in an increase in the position's budget" which requires the prior approval of the Board of Regents. At the very least, this requires about a six-week wait.



Dr. Frank Lisella (left), director of GTRI's program in biosafety, received a U.S. Public Health Service citation from Dr. James Mason, director of the U.S. Centers for Disease Control, at a ceremony June 17. (CDC Photo)

Lisella Wins Public Health Award

Dr. Frank S. Lisella, principal research scientist in GTRI's Environmental Health and Safety Division (EHSD), received a U.S. Public Health Service citation at a ceremony at the Centers for Disease Control (CDC) on June 17.

Lisella, who directed CDC's Office

of Biosafety until coming to Georgia Tech in March of this year, received the citation for "outstanding contributions to public health in environmental health and occupational safety and health and for career-long distinguished performance of managerial and professional duties."

A Senior Faculty Research Leadership grant recipient, Dr. Lisella is responsible for developing a program in biosafety at Georgia Tech that will include both training courses and a technical consultation program in biosafety, laboratory safety and security, and hazardous wastes control.

direct impact on the overhead rate . . . There's nothing (in the plan) driving the overhead rate either up or down. If we do our job more efficiently in areas like academic support and institutional support, at least where they are connected with researchers, we could drive it down."

In addition to monies received from research grants and contracts, the Long-Range Plan proposes increases in state appropriations, endowment income, and student tuition and matriculation fees.

Dawn (from page 1)

"The faculty we are bringing in are all very active in research," Bourne stated. "The individuals we want do both—they are top teachers and good researchers—and I'd like to invite more of you (GTRI senior staff) to participate in teaching."

The Long-Range Plan also calls for the expenditure of \$225 million in capital improvements (buildings, furnishings, and equipment). Nearly \$85 million in new construction is currently under way.

Impact on Overhead

Asked what impact the plan will have on the overhead rate, Dr. Bourne replied, "There is no

Annual Report Here

GTRI's external annual report for FY 1987 has been published and is available for use in contract development and key public relations activities.

The 32-page, four-color booklet summarizes the most recent fiscal year and is organized according to important research topic areas.

To order copies, contact the Research Communications Office at 4-3444.

PROFESSIONAL ACTIVITIES

ECONOMIC DEVELOPMENT LAB

David Clifton and Sherman Dudley are serving on the task force of the General Assembly-mandated Rural Economic Development Study.

John Nemeth has been reappointed to the Georgia Hazardous Material Emergency Response Advisory Council.

On July 1, Chuck Ross presented a paper, "Evaluation of an Electrochemical Sensor in Monitoring Atmospheric Ammonia in Animal Housing," at the summer meeting of the American Society of Agricultural Engineers in Baltimore.

An article by Mike Brown and Tim Beck, "Improving Boiler Efficiency through Maintenance," recently was published in the *Journal of Property Management*.

At the annual meeting of the Georgia Chamber of Commerce Executives Association July 23-24 in Savannah, Bill Whitworth and Bobby Cline made a presentation on "Training Needs of Georgia Business and Industry."

Bill Darley has been selected as a thesis consultant with the University of Oklahoma's Economic Development Institute. He also is a member of the Invitation Committee for the 1988 Red Carpet

Tour, an industry recruitment effort sponsored by the Governor's Office and the Business Council of Georgia.

Mark Demyanek has passed the core examination of the Board of Certified Safety Professionals, gaining designation as Associate Safety Professional.

Stan Lewis has been named to the National Institute of Building Sciences task group for lead in paint and will serve as chairman of the Testing and Inspection Committee.

Frank Lisella lectured in Ottawa, Ontario, June 25 on "Laboratory Security and Access Control" at the Canadian Health and Welfare Department.

Alan Pashkevich and Bill Meffert gave a presentation on "Energy Conservation in the Textile Industry" at the annual directors meeting of the Energy Analysis and Diagnostic Center Program, July 27-29 in Philadelphia.

Harris Johnson has been appointed assistant chairman for new Kiwanis Club development statewide.

ELECTROMAGNETICS LAB

Georgia Tech has reached an agreement with Nissho Iwai to represent the Generic Expert System Tool (GEST), developed by John Gilmore and staff, in

the Japanese marketplace.

John Gilmore, Stefan Roth, and Steve Tynor demonstrated GEST at the annual Artificial Intelligence Conference held July 13-17 in Seattle (WA), and Roth presented a workshop paper on blackboard architectures. Gilmore also presented a paper entitled "A Survey of Diagnostic Expert Systems" at the International Expert Systems Conference held in London June 2-4.

Gerald Grams has been appointed to the American Meteorological Society's Committee on Meteorological Aspects of Air Pollution.

ELECTRONICS & COMPUTER SYSTEMS LAB

Steven Bonasera recently presented the following three papers at the Bioelectromagnetics Society conference in Portland (OR): "Effects of Chronic, Low-Level 435 MHz RFR on Blood-Borne Hormones in Cannulated Rats: ACTH, Corticosterone, and Prolactin," coauthored with Jim Toler, V.P. Popovic, C. Honeycutt, and D. Sgoutes; "Effects of Graded Doses of 435 MHz RFR on Blood-Borne Hormones and Body Core Temperature in Cannulated Rats: Engineering Considerations"; and "Effects of Graded Doses of 435 MHz RFR on Blood-Borne Hormones and Body Core Temperature in Cannulated Rats:

Results," with Toler and Popovic.

ENERGY & MATERIALS SCIENCES LAB

Wallace Shakun spoke on "High-Temperature Hazardous Waste Incineration" at a National Science Foundation conference at Georgia Tech June 4-5.

Fred Corsiglia has been elected president of Psi Upsilon fraternity.

Stuart McLemore has been elected president of the Georgia Tech chapter of Keramos, ceramic engineering honor society. Michael Mackaman has been inducted into Keramos and elected chapter vice-president.

SYSTEMS & TECHNIQUES LAB

Charles Watt attended the invitational Federal Conference on Commercial Applications of Superconductivity in Washington (DC) July 28-29.

At the IEEE International Symposium on Antennas and Propagation held June 15-19 in Blacksburg (VA), Don Bodnar participated in the Administrative Committee meeting of the APS and chaired the IEEE Antenna Standards Committee meeting.

"Lens Antenna Concepts for Land Mobile Satellite Communications," authored by Keith Rainer and Don Bodnar, was selected as a Class I Tech Brief to be published in the *NASA Tech Briefs Journal*.

PERSONNEL NEWS

ECONOMIC DEVELOPMENT LAB

Bob Lann is acting head of the Applied Research Branch following the recent departure of **John Warden**.

Charles France has resigned. **Bob Kyle** has transferred to OCA and **Bill Larson** to OIP.

Denise Sharif, **Bertha Prater**, and **Jean Cox** are new IED support staff in Atlanta, Augusta and Gainesville, respectively.

Bill Meffert is a new RE I in the Energy Resources Group.

EHSD has four new folks—**Stan Lewis**, a transfer from EMSL, in Industrial Hygiene; **Allen Warren**, RS I, Industrial Hygiene; **Toni Hurlley**, RS I, Asbestos Group; and **Steve Hays**, RS I, Safety Group.

ELECTROMAGNETICS LAB

Dr. Allen K. Garrison joined the Electro-Optics Division in July as a senior research scientist. He formerly was chairman of the Physics Department at Emory University.

The Physical Sciences Division welcomes administrative secretary **Angela Love**. A native Atlantan, she

formerly was employed by the State Division of Family and Children Services.

ELECTRONICS & COMPUTER SYSTEMS LAB

The Command & Control Division welcomes **Randolph Case**, senior research scientist, who has just completed 20 years of distinguished service in the U.S. Air Force, where he attained a nationally recognized position in the command and control community. He has an MS in systems management from the State University of New York at Binghamton, an MA in counseling psychology from Ball State University, and a BS from the University of Florida.

ENERGY & MATERIALS SCIENCES LAB

EMSL says farewell to **Chris Newman**.

OFFICE OF THE DIRECTOR

Cherri Dunn has resigned.

RADAR & INSTRUMENTATION LAB

The following hourly people are now full-time employees: **Keith Vaughn**, RE I, is working for Margaret Horst, while **Sandra Siano**, secretary, **Boaz Gelernter**, PRE, and **Neal Warner**, SRE, are in the New Jersey office.

Carol York has transferred to EML after nine years in RAIL. **Barbara Cranfill** has taken her place.

Dave Flowers has been named chief scientist in RAIL.

SERVICE DEPARTMENTS

Joseph M. Schwartz is the new audio-visual/graphics professional in Research Communications. He is an outstanding photographer, having been nominated by Knight-Ridder Newspapers for the 1987 Pulitzer Prize for photography. He has been staff photographer with the *Columbus Ledger-Enquirer* and *Marietta Daily Journal*.

Other new employees are **Peggy Treadwell**, typesetter II in PPC; **Yvonne Jackson**, secretary in Research Security; and **Joseph Brooks**, maintenance worker I in Facilities Management.

Melissa Fowler has been promoted to programmer I in CRSD.

Terminations include **Jacquelin Parker**, Accounting; **Margaret Wilson**, Human Resources; and **Terry Long**, Mechanical Services.

Congratulations to **George Bearce**, Mechanical Services, who celebrated his 20th Tech anniversary July 17.

SYSTEMS ENGINEERING LAB

Dennis Folds was named June

employee of the month for his outstanding research publications.

Ann Duneheew is the new administrative secretary in the Director's Office, replacing **Pat Toomey**, who resigned June 11.

Louis B. Fertig joined the Countermeasures Development Division in June.

Janie Kite has been promoted to administrative coordinator for SEL.

SYSTEMS & TECHNIQUES LAB

STL welcomes the following new employees: **Istvan Nogradi**, SRE; **Andre J. Lovas**, RE I; **Thomas R. Hoshstrasser**, RE I; **James D. Hawes**, RE I; **Scott D. Gleason**, RE I; **Stephen G. Chastain**, RE I; **Richard L. Moser**, electronics technician I; **William D. Reeves**, mechanical technician III; **Ron J. Puent**, lab technician I; **Martin J. Mannion**, GRA; **James F. Kirksey**, graduate co-op; **David R. Smith**, graduate co-op; **David F. Nall**, co-op; **William M. Higgs**, co-op; **Kathryn M. Wilson**, co-op; and **Stanley B. Humphries**, student assistant.

Sam Alford transferred from RAIL.

Teresa Brown was promoted to staff assistant.

John Cribbs and **David Rodman** have resigned.



Software Review

by Pat Mathiasmeier, CRSD

The CRSD MicroComputer Support (MCS) group now offers software support and technical assistance for IBM/Macintosh personal computers and several types of workstations. These software services include phone support, on-site technical assistance, initial installations and upgrades. MicroComputer Support is constantly testing and evaluating new software packages in support of the Georgia Tech community.

The types of software used most often at Georgia Tech are word processors, database management packages, and spreadsheet packages. The major word processor in use at GTRI is WordPerfect. Other word processors supported by MCS include Microsoft Word, Wordstar 2000, Volkswriter 3, DisplayWrite 3, and PC-Write.

dBASE III Plus is the database management package most often used. MicroComputer Support also offers assistance with Framework, Rbase 5000, Reflex, and Homebase. Spreadsheet packages include Symphony, Lotus 1-2-3, and Super Calc.

Communication software packages are growing in use at GTRI. With more and more employees gaining access to PROFS, the GTRI electronic mail system, PROFSTRM, is the most often used package. Other packages in use around campus and supported by MCS include Crosstalk IV, Procomm, GT PowerComm, the IBM 3270 Emulator, and Hayes SmartCom II.

Utility programs are used by many to speed up their work or make their job easier. Some of the more popular packages include Superkey, the Norton Utilities, Sidekick, Powermenu, Taskview, and Doubledos.

Programming languages supported by MCS include IBM Basic, IBM Assembler, Quick Basic Versions 2.0 & 3.0, Turbo Pascal, and Turbo C.

Microcomputer software and technical support is available through the CRSD Helpdesk! at 894-7173.

Update Under Way On GTRI Project Director's Manual

Project directors at GTRI soon will have a new reference manual, and it will reflect their requests for more information on planning and controlling projects, preparing reports, and getting follow-on contracts. These needs were cited by more than half of the respondents to a survey conducted last year.

"We're updating and expanding the original manual, which was published in 1978," says Carol Aton, leader of the Project Director's Manual (PDM) Task Group. "The new manual is one way to transfer the experience gained by our team of senior researchers, who can provide some practical solutions to the kinds of problems that GTRI project directors face."

Current and potential project directors are invited to provide input to the PDM Task Group, especially topics to list in the index. Tell any of the following people what you would like to look up in the new manual:

Don Clark (ECSL), x3535
Bob Collier (OOD), x6238
Joe Gagliano (EML), x3308
Claudia Huff (EDL), x3448
Jim Hyndman (STL), 424-9611
Jerry Lett (EMSL), x3589
Lloyd Lilly (SEL), x7243

The manual is scheduled to be distributed in early 1988.

Personal Notes

EDL: Holly Grell was married to Chuck Lowe in July. Ellen and **Dave Mayer** are proud parents of a baby girl, Melissa Kate. **Marsha White** is recovering from surgery.

ECSL: Congratulations to Kate and **Brian Shirley** on the birth of twins, Rebecca Marie and Kristina Jean, on June 8; to Marie and **Dave Chapman** on the birth of Katherine Diane on June 9; and to Barbara and **Paul Friederich** on the birth of Julia Whittier on July 14.

EMSL: Maria and **Chris Newman** welcomed a son, Joseph, born June 3. Our sympathies to **Gwennette Barkley** on the loss of her father.

MSD: **James Nowell's** son, Darren, was named to "Who's Who Among American High School Students."

OOD: Congratulations to Jerry and **Cherri Dunn** on the birth of a daughter, Ginger, on July 14.

STL: **Lynette Miller** became the bride of Bryan Powell on June 6.

In Memoriam

Clay Donaldson, a mechanical technician II with the Systems and Techniques Laboratory, died July 26 as a result of an aneurysm. Our deepest sympathies are extended to his family and friends.

Clay had worked at STL since last December. He transferred from the Mechanical Services Department, where he had been employed for some five years, most of them in the Cobb County machine shop.

It Seems To Me . . .

In the last issue, we asked: "What is the single best idea you've found to help you do your job effectively?" Here are some responses.

"Produce visible signs of progress."
Susan Wheeler, RS II, EML

"Send your boss out of town and see if you can slow the associate down. A little bit of humor, lots of laughs, get a student assistant to save your calves . . . Getting the paperwork in with the tide keeps OOD off your hide." Gwennette Barkley, lab secretary, EMSL

"Each month, I do the calendar for the upcoming month, copy and distribute it to . . . anyone that might find it useful. This cuts back on the obvious questions and serves as a reminder of frequently occurring meetings . . . and timesheet due dates." Joann Ward, lab secretary, ECSL

The question for September is: **What was your greatest computer disaster?** Send your answer in 50 words or less, along with your name and lab-service group, to GTRI Connector, RCO, 223 CRB.

Nominations Due

Do you know someone you'd like to recommend for a GTRI research award? September is the month for GTRI employees to submit their suggestions to their laboratory director or service department head. Each GTRI lab and service group must turn in its official nominations to the awards review committee by October 15.

Outstanding performance again will be recognized in the following areas: research, program development, management, project direction, research support, and student employment.

All employees are invited to attend the awards ceremony and reception on December 3 in the Student Center ballroom.

"We hope to get as wide participation as possible in the nomination process," says Ron Bohlander (EML), chairman of the 1987 Annual Research Awards Review Committee. "Details about eligibility and nomination procedures are available from GTRI unit directors."

Other members of the review committee are Dorothy Brown (STL), Carroll Garrett (MSD), Larry Holland (SEL), William Spain (EDL), and Bill Howard (OOD, ex-officio/nonvoting).

the
GTRI connector
Published monthly for employees of the Georgia Tech Research Institute

Vol. 3 No. 9

July-August 1987

Editor

Martha Ann Stegar, RCO 4-6988

Associate Editors

Janice Manders, OOD 4-3401

Lincoln Bates, EDL 4-6091

Gail Tucker, EML 4-3500

Joann Ward, ECSL 4-3542

Ginny Myers, EMSL 4-3678

Maggi Harrison, RAIL 424-9621

Bill Williams, SEL 4-7250

Vickie Fennell, STL 424-9611

Pat Mathiasmeier, CRSD 4-2416

Charles McCullough, Services 4-3445

Published by the Research Communications Office, Centennial Research Building, Georgia Institute of Technology, Atlanta, GA 30332. Georgia Tech is a unit of the University System of Georgia. Typesetting and printing by Walton Press, Inc., Monroe, GA. The deadline for submission of copy is the first Tuesday of each month.