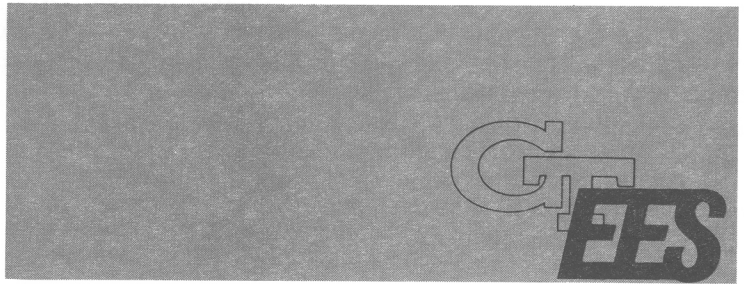


# STATION NEWS

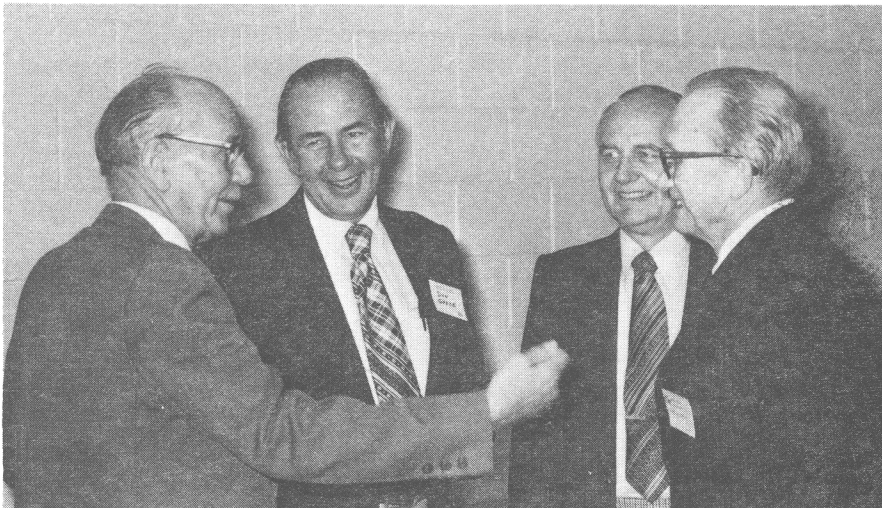
ENGINEERING EXPERIMENT STATION • GEORGIA TECH



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On April 14, a subcommittee of Georgia Tech's National Advisory Board met at the Baker Building with EES Director Donald J. Grace and other Station administrators. Shown (left to right) are: Dr. F.A.L. Holloway, subcommittee chairman; Dr. Grace; Howard Dean, associate director of EES; and William R. McLain.

"The meeting of EES provided an excellent opportunity for us to describe to this national alumni group how the Station operates and how it interacts with the rest of the campus," commented Dean.

Dr. Holloway is a vice-president with Exxon Corp. of New Jersey, and Mr. McLain is chairman of the board and chief executive officer of Kusan, Inc., of Tennessee.

## Tech Receives Fourth Year of State Funding for Poultry Research

The Georgia State Legislature recently approved \$250,000 for continuing research in the poultry industry by EES. The research program, which was first begun in 1974, is funded through the Georgia Department of Agriculture.

An increase of \$20,000 over last year's funding, the new award will allow EES to continue research projects in energy conservation, solar energy applications, automation and mechanization, and waste treatment assistance.

The new funding also provides for research in two new areas which local poultry producers feel are vital areas of concern: egg handling and breakage and broiler catching, loading and hauling. These are important areas because of revenue lost to egg breakage and employee turnover in broiler harvesting due to undesirability of job conditions — broilers are now caught by hand and manually loaded into coops and stacked on trucks for shipment.

According to Project Director **Richard Combes** of T&DL past Department of Agriculture funding has been instrumental in the building of two solar heated growout houses — one in Cumming and one in Villa Rica, Ga.; the development of a computerized method of finding where losses are occurring on the processing line; the construction of a generator for turning chicken manure to methane gas; and several other programs which are able to increase revenue, save energy and decrease pollution.

## 1977 Annual Report

The Publications and Information Office has produced a 24 page, illustrated *Annual Report* for public relations use. Six thousand copies were printed and some 3800 copies have been distributed to EES labs, Ga. Tech offices and mailed to area media, legislators, Chambers of Commerce, civic officials, businesses and other research and educational organizations nationwide.

The *Report* was designed and edited by **Jim Donovan** and is available for use by the staff. Call 3405 for copies.

## Every Kilowatt Counts!

**Saving energy is often inconvenient, but the staff at EES is asked again to be aware of ways to lower the energy bills EES must pay and at the same time contribute to the state and national energy savings. Turning off lights not in use is part of the effort; wearing appropriate to weather clothing is another part. Unplugging electrical appliances not in immediate use is an additional "good housekeeping" habit for the saving of kilowatts and BTU's. Every action of every individual does make a difference.**

## International Programs

The Office of International Programs has entered into a one-year agreement with the Korean Credit Guarantee Fund to provide them with industrial extension training, direct management and technical assistance, and technical information services.

Under the \$49,671 contract, four Koreans will come to Atlanta for industrial extension training, including field experience in the EES branch offices. During the year, IPO will send people to Korea to work with the KCGF staff providing management and technical assistance to small and medium-size companies. **Don Lodge** is project director.

IPO also has signed a \$25,325 contract with the Asian Development Bank to present a six-day Regional Seminar on Appropriate Technology/Small-Scale Industry Development, to be held in July, 1978, at the bank's headquarters in Metro Manila, Philippines. **Ross Hammond** will be seminar director, and resource persons will be **Nelson Wall** and **Phil Potts**.

**Phil Potts** and **Kermit Moh** were in Indonesia April 20-May 10 to evaluate the feasibility of implementing a water pump project using the AID hand pump now being field-tested in Central America.

**Don Lodge** left April 23 for a three-week stint in Ghana under the AID Small Industry Grant.

The National Academy of Sciences has appointed **Nelson Wall** to a three-man team that will prepare a position paper on science and technology for the Mauritanian government.

**Mary Camp** has resigned and taken a position as bilingual secretary with Gold Kist.

**Harlan Davis** was in Brazil the first two weeks in April as part of a World Bank team to evaluate the overall performance of Bank-funded projects in 1977 and to plan its loan portfolio for next year.

IPO has just published a review of selected techniques for industrial development entitled "Analysis of Small Industry Development Methods and Techniques." A chapter on institutional approaches, written by **Nelson Wall** and **Dick Johnston**, describes industrial development centers and productivity centers worldwide.

Another chapter, by **Ross Hammond**, analyzes the various types of technology transfer systems.

## Gary Kelly Receives JC Award

**Gary Wynn Kelly** has been named one of Atlanta's "Five Outstanding Young Men of the Year" by the Atlanta Junior Chamber of Commerce. Gary, who is a blind researcher with TDL and also coordinator of programs for the handicapped at EES and on the rest of campus was honored at an awards' luncheon on May 4 at the Top of the Mart.

He was nominated for the award by a former JC president, **Steve Black**, who began work on the nomination after seeing a Channel 5 news feature done last June on Kelly.

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## STL Organization Change

**Bob Goodman** recently announced a change in the internal organization of the Systems and Techniques Laboratory. The change affects only the Systems Development Division (SDD). The SDD was re-formed into two Divisions. One Division, headed by **Robert Moore**, will retain the name Systems Development Division. The other Division, headed by **Charles Hilbers**, will be named Defense Electronics Division (DED). This change, designed to permit more efficient operation and management, has been made possible and desirable by the rapid growth of SDD during the last several years. Contract development responsibilities within S&TL will remain unchanged.

Concurrent with and related to this organizational change, several administrative appointments have been made. **Samuel Alford** is appointed Associate Director of S&TL, **William Dittman** is appointed Associate Chief of SDD, and **Joseph Parks** is appointed Assistant Chief of DED.

## GE Scientists Meet with EES

During the week of April 24, some 25 scientists and executives from General Electric organizations nationwide were hosted by **Dr. Don Grace**, the EES staff and other Tech officials for presentations and meetings.

The GE group makes up the Advanced Development Council which was founded 16 years ago for the purpose of providing the Aerospace Business Group an integrated view of science and advanced technology as each relates to business needs. The Council is jointly sponsored by the Aerospace Business Group and the GE Corporation Research & Development Laboratory at Schenectady.

The major concerns of the Advanced Development Council are to enhance technical communication, improve relationship between ABG needs and Corporate R&D Laboratory activity, promulgate key technological information and to recommend programs for funding.

## EES Retirees

Retirees from the Engineering Experiment Station this year are **Thomas H. Buckley, Jr.**, **John W. K. Coker**, **Edward R. Flynt**, **Harold T. Johnson** and **Joseph B. Perry**.

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## An Equal Education and Employment Opportunity Institution

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### STATION NEWS

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## RAIL

Due to lack of snow to measure, **Nick Currie, Tim Vining, David Ladd, and Tom Morton** finished up the snow measurement program in New York during April. As luck would have it, it began snowing while they were packing.

**Nick Currie, Frank Riherd, Brian Hudson, and George Ewell** successfully completed testing of the WIDS Target Detection Unit (TDU) at the Naval Coastal System Center, Panama City, Florida. The TDU successfully achieved automatic track on all of the waterborne targets of interest and also on some waterborne pelicans and ducks.

**"Bugs" Greneker**, project director of Radar Reflectivity of Airborne Insects, attended the Radar, Insect Population Ecology and Pest Management Workshop at Wallops Island, VA, in May. He attended the jointly-sponsored NASA, U.S. Dept. of Agriculture Workshop on the development of policy for future research in radar studies of insect migration patterns.

**Jerry Eaves and Gene Greneker** were invited to brief the Tri-Services DoD Physical Security Action Group on the radar technology program relating to ground and air intrusion detection. The Group is concerned with local security of U.S. nuclear weapons.

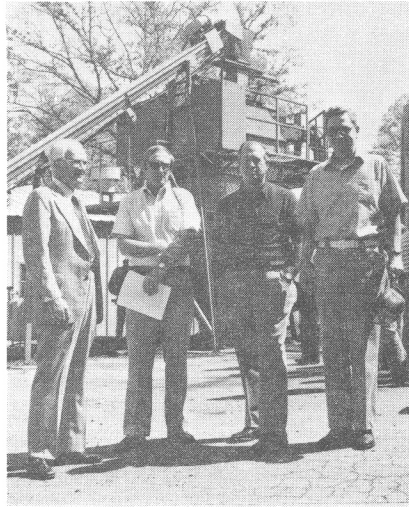
At the Conference on Modeling and Simulation at the University of Pittsburgh, **Ross Gagliano, TDA**, presented a paper entitled "Models of Organization" and also chaired a session entitled "Innovations in Simulation Modeling." **Kent Langseth, TDA**, also presented a paper, "A Decision Support System Approach to Maneuver Area Scheduling" at the same conference.

**Eddie Martin**, Secretary of the Military Computer Family Committee, attended its meeting in Scottsdale, Arizona in April.

**Norm Brake** presented a paper entitled "Slang — A Structured Language for OS/8" at the DECUS Symposium in Chicago on 26 April.

**Fred Dyer** was on a Field Operation at Nellis AFB, Las Vegas, during the latter part of April.

The last piece of Georgia Tech equipment has been removed from the Boca Raton field test site. Con-



More than 78 people representing industrial firms from all over the world visited the pyrolytic converter in Area II last month as part of two field study tours through the Southeast which introduced the latest developments in U.S. complete-tree harvesting and utilization to the businessmen. The tours ended in New Orleans with a three-day symposium on Complete-Tree Utilization of Southern Pine, April 17, 18 and 19. Jim Knight (far left) of TDL is shown here with tour and symposium sponsors (L-R) Georgia Woodson, of Mid-South Section of Forest Products Research Society; A. B. Curtis, Southeastern Area State and Private Forestry, U.S. Forest Services; and Jim Altman, of the American Pulpwood Association.

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dominiums will replace the antenna tower. RAIL and STL personnel have utilized this facility for the past 15 years, and efforts are underway to locate another site.

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**Check your classified materials.  
Don't be careless with them.**

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## Neutrino Research Award

The National Science Foundation, Washington, D.C., recently announced a \$280,000 grant to Ga. Tech/EES for support of a research project entitled "Low Energy Experiment to Measure a Weak Coupling of the Neutrino Current." The project is under the direction of **"TP" Lang, ASL**, and **Tino Ahrens** of Physics.

## SED News

**H. F. Engler** and **W. E. Sears** attended the 6th Annual Review of Air Force Sponsored Basic Research in Flight and Technical Training at the USAF Academy in Colorado Springs, during April 16-21.

**R. D. Wilkins** served as session chairman of the Environmental Systems Analysis and Control Session at the Southeastern Conference on Systems Theory held in Atlanta April 10-12. He presented a paper entitled "Cost Benefit Assessment of NASA Remote Sensing Technology Transferred to the State of Georgia."

**F. E. Gramling** gave a paper entitled "Decision Support Systems for Allocation of Training Resources" at the Southeastern Conference on Systems Theory.

**F. E. Gramling, P. G. Sassone, and F. E. Williams** co-authored a paper entitled "Benefit Assessment of Monitoring Stratospheric Ozone and Aerosols." The paper was also presented by Gramling at the Systems Theory Conference.

SED welcomes new secretary — **Rhonda Foster**. She will be working in the Systems Technology Branch.

**Save energy. Turn out lights.**

## STL News

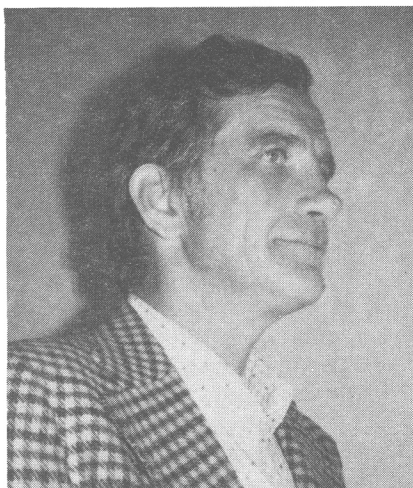
During the months of April, May and June, STL staffers are setting out for all points — East, West, Down Under and Wherever. Just one week after **Robert M. Goodman, Jr.**, STL Director, and **George W. Ewell** were waved off to Australia, and **Donald G. Bodnar** to Japan,

**Robert L. Somers**, research engineer, has spent nearly a year studying at the Alliance Francaise to prepare for his upcoming motor trip around Paris, the French countryside and southern parts of England. **Dale P. Nordin**, electronics technician, is also going to explore his "roots" as he, his wife and their two children fly via Denmark to Sweden for an extended stay visiting relatives. Dale also teaches Swedish so he is prepared to enjoy the adventure to its utmost.



## Personality

### STRAIGHT ARROW: HAMPTON TEAGUE



Hampton Teague can be described as a power tower, one that stands out in a crowd of people or of mirrors. Through the hot summer of '77, his 200 pound, 6'4 frame was a familiar fixture at the solar test site where he handled virtually all the responsibility for the installation.

"It was a fantastic learning experience ... beyond comprehension," he laughs in reflection. "It certainly was all elbows and knees for a long time! This is the only place I know where one can gain twenty years' experience in one." Concerned about being misunderstood, Hamp quickly adds, "Solar energy is very serious to me. It's work that has to be done and a good place to devote my efforts."

Born in North Carolina, the youngest of four children, Hampton Long Teague has traveled far from Chapel Hill days. Managing a textile mill, serving in the Air Force, doing investigative engineering — all are part of his past. Recently, he joined the National Society of Professional Engineers.

As is typical of most engineers, Hamp wants to know what makes things work. "I've learned, though," he says, "that *'if it ain't broke, don't fix it!'*" That motto hangs above his desk and serves as a reminder to him not to take things apart to make them better. "I realize that perfectionism is an enemy to accomplishment," he philosophizes.

At his home near Chastain Park, referred to as "The Little House," there's always something going on,

especially in his workshop which provides a haven of creativity and leisurely engineering for his friends. "I'm fortunate," smiles Hamp. "Some people feel lucky to have a few good friends their whole lives. I have at least thirty, ... and I don't ever get lonely."

Wood-carving, scuba diving, sailing, fishing, riding motorcycles and flying his plane are all part of his avoidance of Dull Engineerdom. He gets interested in something new every couple of years, ... and he tends to name things. The yellow tractor at the test site was formerly a torpedo loader during WW II and was fondly named "Cynthia." "Marvin" is his Honda motorcycle; "Ajax," his car.

Ralph Altman, co-worker in the EES solar energy division, is highly respected by Hamp, and the esteem goes both ways. Altman says, "Hamp's bright and modest. He is also a versatile and sound engineer. When given a problem that isn't run-of-the-mill, he tackles it successfully. He's also good with words — even when writing witty slogans on blackboards. Hamp does many things well. Cartoons, for instance. And he plays the piano without having taken any lessons. Guitar, too."

Even though Hampton was named for his grandfather's commander-in-chief during the Civil War, he has no time for conflicts. "I've never spent much time looking inward, either," he remarks in an easy-going manner.

A far-away look becomes apparent as he says, "What I really like to do is make windmills. Maybe someday I'll have a project of my own." The moment passes and he is on his way ... a straight arrow type of individual who doesn't waste time and doesn't look back.

—Sharon Sebaly

### Meeks and Whitley in Boston Marathon

Both Earl Meeks (ASL) and George Whitley (STL) ran in the Boston Marathon on April 17, an event with ¾ million spectators. The 26-mile race, commemorative of the ride of Paul Revere, has to be run in 3½ hours. George's certificate-winning time was 2 hours and 49 minutes, and Earl ran the course in 3 hours, 31 minutes (missing a special

certificate by only one minute). A total of 4100 persons participated in the race, and each had qualified previously.

Anyone interested in organizing a running team or running for health purposes, contact either of the marathoners.

## ASL News

During April, several contract development visits were made: **Billy Livesay** to Wyle Laboratories, Redstone Arsenal and NASA on April 30-31; **Walter Cox** and **Dale Covington** to NRL in Washington April 12-14; and **Walter Cox**, **Gordon Harrison**, **Ed Reedy** and **Jim Wiltse** to ARPA on April 19-20.

**Walter Cox** and **Charlie Rucker** visited the Air Force Avionics Laboratory on April 17-18 for a final technical presentation on "IMPATT Diode Chip Level Combining."

**Dale Covington** and **Earl Meeks** presented papers at the First International Symposium on "Molecular Beam Epitaxy" in Paris on April 22-29.

## Congratulations, Martha Clayton!

The Dogwood Festival is over, and an original watercolor painting by **Martha Clayton** (ASL) was one of the purchase awards given by the Ga. Tech Student Center. The painting was purchased for \$250 and will be part of the Student Center's permanent collection.

Martha, a 1975 graduate of the School of Architecture, says in referring to this work, "The asymmetric composition and strong tonal contrasts, in particular, appeal to me. The figure has been treated without reference to the model and with greatest attention to perspective — almost as though it were a landscape."

