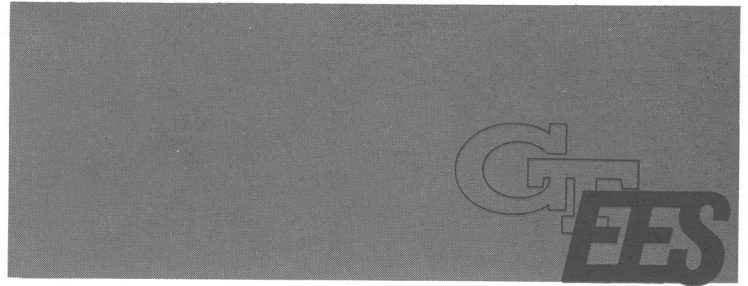


STATION NEWS

ENGINEERING EXPERIMENT STATION • GEORGIA TECH



VOLUME 6 NUMBER 11

DECEMBER, 1977

1978 LOOKS GOOD FOR EES

Station to Station

As we approach the conclusion of one calendar year and enter another, it seems a good time to take stock of what we've accomplished and consider plans for the immediate future.

Our consistent and dynamic growth is apparent. Last fiscal year, our growth and total expenditures was 26%. This year's official projection is 20%, but present trends indicate that 30% is more likely. There is more to growth than numbers, however.

Upgrading and expanding equipment, finding and hiring high quality new staff, implementing appropriate salary raises to our excellent existing staff as well as solving physical space problems and devising new management structure all go along with growth. Positive aspects are also evident.

Our recognition, both nationally and internationally, continues to increase, generally without loss of integrity or productivity. We do need to improve our management methods and organization structure, however, and nurture further cooperation rather than competition.

It occurs to me that one reason this organization keeps going — and growing — is that when needs arise on the national or international plane, EES is there with leadership capabilities.

Technology transfer, for example, is one term of the 70's which commands our attention and, really, demands our participation. Recently, we had another first as Georgia Tech was the only university in the U. S. selected by the State Department for visitation by representatives of 13 countries on a nationwide 3-week tour



"Shall we form a UFO laboratory?"

on Science, Technology and Development. At lunch that day I heard comments that the Tech visit was the most productive in their tour and that they felt our interests were closer to their own in providing down-to-earth assistance for real-world problems. Their day included observation of internal operations and discussions of work in solar, pyrolysis and industrial development.

In November, I was privileged to attend a NATO-sponsored conference on technology transfer held in Portugal. About 120 persons from 18 countries learned how technology transfer is handled by various countries in both the industrial and military sectors. I found that EES and Georgia Tech are in the forefront with innovative programs; indeed,

several foreign speakers singled out our programs for praise.

Relevant, too, is the Station's February participation in the Third Annual World Fair for Technology Exchange to be held at the World Congress Center. Also, Atlanta's being chosen to host the 1979 Congress of the International Solar Energy Society was effected in large measure by our expertise in the solar field.

Georgia Tech has been selected by the National Academy of Science and Engineering to serve as host for a regional workshop and hearing on technology transfer to developing countries. This meeting will be used to help formulate U. S. positions for a special session of the UN in mid-January, 1979.

Continued next page —

Part of extending ourselves involves our Field Offices, and the Industrial Extension Division of TDL has arranged for me to visit each field office and meet with local officials of companies, local government and business leaders. In my initial visits to Albany and Douglas, I learned while touring plants associated with EES that involved persons are uniformly pleased with our activities and totally supportive of the EES field offices. Appreciation came from Regents and legislators as well as local government, Chamber of Commerce and company officials.

In a related effort, our current project to assist minority businesses is the only one funded at a university by the Dept. of Commerce. We are working, therefore, with both large and small businesses in Georgia and apparently doing a good job.

In another dimension, getting better acquainted with GIT as well as with ourselves is part of the whole picture. I have attended the first of what I hope will be annual meetings with each of the Schools on campus to meet with their faculties and to brief the academic units on EES. We are also having a get-acquainted open house for the new academic faculty on January 18 in the Baker Building.

Sharing reflections and plans is appropriate for this time of year when regrets need not be magnified, but, rather, the accomplishments we have achieved both individually and collectively deserve highlighting.

It is a pleasure for me to express to you, the finest staff I've ever known, my very best wishes for the holiday season and for our future association.

Donald J. Grace

Tech Appreciation Day

On October 29, the Technology and Development Laboratory hosted a "Tech Appreciation Day" for project sponsors and representatives from government agencies who sponsor or have sponsored TDL projects.

Appreciation Day activities included lunch in the Commerce Club of the C&S building and attending the Homecoming game between Tech and Duke.

Tech personnel who participated in the day's events were: **Rudy Yobs**, official host, **Don Grace**, **Howard Dean**, **Tom Stelson**, **Dick Johnson**, **Jerry Birchfield**, **Bill Ward** and **Ben James**.

Also participating were: **Dave Clifton**, **Dan O'Neil**, **Rick Wright**, **Bob Cassell**, **Bill Darley**, **Larry Edens**, **Ed Bethea** and **Judi Komaki**.

Georgia Tech to Host Regional Science and Technology Conference

The Georgia Institute of Technology will host a Southeastern Regional Conference on Science and Technology for Development January 16, 1978.

Expected to attend are representatives of a wide variety of public institutions and nongovernment professional and public interest groups from eight states: Alabama, Florida, Georgia, Louisiana, Mississippi, North Carolina, South Carolina and Tennessee. They are invited to bring to the conference their ideas on how U. S. science and technology might be mobilized in support of international development and to improve the lives of people in developing countries.

One of four such regional conferences to be held in January, it is an important part of the United States Government's preparation for participation in the 1979 United Nations Conference on Science and Technology for Development. The U. S. State Department has asked the National Research Council (NRC) to conduct a study and prepare a report that will assist the government in writing a national paper for the U. N. meeting. In order to obtain the widest possible input, the NRC is convening these regional meetings.

Five panels of specialists will sift the testimony from the regional meetings and present a final report to the State Department by April 21, 1978. The report will identify the key areas for priority action in the following sectors:

- population, health, nutrition
- energy, natural resources, environment
- food, climate, soil, water
- employment, industrialization, trade
- urbanization, transportation, communications

The report will stress ways to build developing countries' own scientific and technological capabilities in these sectors and to expand their access to U. S. and world capabilities in order to improve their living conditions.

The Southeastern Regional Conference is being organized by Georgia Tech's Office of Interna-

tional Programs. It will be held from 9:00 a.m. to 4:00 p.m. on January 16 in the Space Sciences Technology Building on the Georgia Tech campus in Atlanta. Persons interested in attending or testifying at the meeting should write the Office of International Programs for further information.

EES Christmas Party

Celebrate the holiday season with co-workers at the EES annual Christmas Party on Friday, December 23, from 2 until 4 PM at the 19th floor of the C&S Building. Food, refreshments and spirited good cheer will be offered, and such traditions as the Abou Award will be given (under duress) to a deserving EESer.

Again, the P&I Office is organizing the party with committees of: Punch and Beverages; Maggie Rampling (RAIL) (chairperson), Linda Beasley (ETL), Dorothy Brown (STL) and Marilyn Huber (EML); Food and Snacks; Sharon Sebaly (P&I, chairperson), Janice Manders (SED), Doris Manning (NRC), Mary Ann Mayo (ASL) and Peggy Simcic (TDL); and General Everything Else; Tom Jones (FMG). Ya'll come and share some cheer.

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## An Equal Education and Employment Opportunity Institution

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## Blue IV of Interest to Brazilian Institute

Brazilians Maria Celina and Marcos Jordao visited **Jim Knight's** Waste Utilization facilities November 14-18 to learn about resource utilization work in the U.S. Representing the Institute Pesquisas Tecnologicas in Sao Paulo, the Jordaos observed operation of EES pyrolysis equipment, activation of carbon at both the bench scale level and pilot plant level and observed lab methods of analysis and testing the feed materials, pyrolytic oil, char and gases. Pyrolysis of forestry and agricultural materials as well as pollution control were primary interests of the South American researchers who are doing similar work in Brazil. Such consultation and observation are part of a growing technology transfer between EES and other countries.

The four-day activities involved both professional and regular staff including: **Everett Chapman, Jeff Rees, Neal Gibson, Foster Terry, Barbara Cartledge, Robin Brown, Ken Purdy, Stan Smith, Pete Elston, Dave Hurst, Kerry Hendrix and Jim Knight.**

## Old Crows Organize

The Peachtree Roost, a newly formed local branch of the Association of Old Crows, held its initial meeting on September 29, 1977, in the EES Baker Building. Mr. R. P. Zimmer, SED, was elected President of the group and the other officers are as follows: Vice-president, Mr. H. A. Corriher, OOD/EES; Secretary, Mr. F. B. Dyer, RI/TD; Treasurer, Mr. D. K. Plummer, EML. Messrs. H. L. Bassett and D. S. Sanford, RI/TD, were elected to the Board of Directors.

Some thirty persons attended the first meeting and membership is expected to increase since the organization is of interest to many technical people both at Georgia Tech and in the metropolitan Atlanta area. The nearest other club is located at Warner-Robins AFB, Ga.

Bimonthly meetings are planned for the Peachtree Roost, and anyone interested in joining the group or in transferring his/her membership, should contact one of the officers.

EES is engaged in wind energy systems analysis in a team effort with the School of Aerospace Engineering. The picture shows Georgia Tech's newly installed 15 KW Grumman Wind Generator.

## Technology and Development Laboratory

The first meeting of the Advisory Council of the Georgia Tech Technology Utilization and Commercialization Center (TUCC) was held in Atlanta November 18. The Center is part of an Office of Minority Business Enterprise (OMBE) project being handled by TDL's Economic Development Division.

Present at the Advisory Committee meeting were representatives from the following corporations: General Electric, Singer Co., Sears, International Paper, Mobil Oil, Southern Bell, Westinghouse, Southern Railway and the Coca-Cola Company.

Federal agencies present, in addition to OMBE, were: the Air Force, ACTION, Community Service Administration, Farmers Home Administration, SBA, EDA, and NASA. A representative from Emory University's School of Business also attended the meeting.

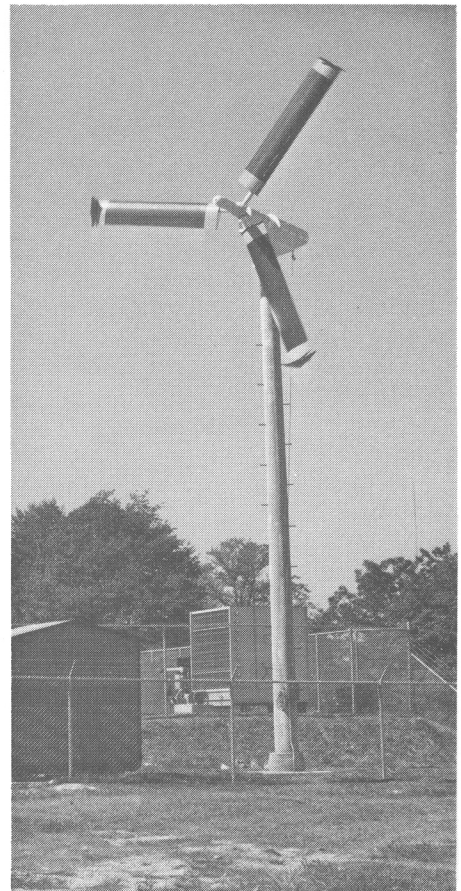
Members of the Georgia Tech staff who participated were: **Tom Stelson, Don Grace, Ed Bethea, Dave Clifton, Sallie Daniell, Nick Gibson, Bill Howard, Jim Muller, Hardy Taylor, Bill Ward and Charles Wommack.**

**Bob Cassell and George Dodson** traveled to Savanna, Illinois, Nov. 2-3 to conduct a community development seminar for the Carroll County, Illinois, Development Commission.

## Radar and Instrumentation Laboratory

This year's ARPA/Tri-Service Millimeter Wave Conference seemed to be held for the benefit of Georgia Tech (!). The Conference, which was held in Maryland, was attended en masse by Georgia Tech personnel, and Georgia Tech's work was mentioned on numerous occasions in papers presented by non-Tech people.

**Bob Hayes** chaired the session on Phenomenology, and RAIL presented three papers: "Combined



*[Decorative wavy line]*

Electro-Optical/Millimeter Wave Radar Sensor Systems" by **Bill Holm**; "Radar Sea Clutter at Millimeter Wave Lengths" by **George Ewell**; and "Millimeter Target Signature Measurements" by **Nick Currie**.

So, Georgia Tech's recognition took a "giant step forward" as a result of this Conference.

**L. H. Harbin**, a Research Scientist, will be working in the Technology Development Area. Lee was born in Meridian, Mississippi, and he enjoys fishing, camping and bowling.

**Gary L. Peckham**, also a Research Scientist in the Technology Development Area, was born in Detroit, Michigan. Gary's hobbies include tennis, sailing and golf.

**Melissa Gardner** has transferred from Reports & Procedures and now works full-time for **Pat Ryan**.

## Applied Sciences Laboratory

**Billy Livesay** presented a paper entitled "Magnetic Properties of  $\text{SnCo}_5$  Hydride Films" by J. W. Larson and B. R. Livesay to the Conference on Magnetism and Magnetic Materials, November 11, in Minneapolis.

**Bob Ingols** presented a paper entitled "Ozone in Solution" by Drs. R. S. Ingols and S. C. Havlicek to the Symposium on Advanced Ozone Technology, November 17-18, in Toronto, Canada.

**E. L. Barbary** attended the Short Course on High Pressure Liquid Chromatography, Washington, DC, October 14-17, 1977.

**Joe Lupton** testified before the Resource Conservation Committee on Solid Waste Product Charge Issue, November 17, in Washington, DC. Chairman of the Committee was from EPA and members of the panel were from the Departments of Commerce, Interior, Labor, Treasury, Management and Budget, Council Environmental Quality and Council of Economic Advisors.

**T. F. Craft** attended the Conference on Water Chlorination: Environmental Impact and Health Effects in Gatlinburg, Tenn., October 30-November 4.

## Electronics Technology Laboratory

**Hugh Denny**, EMC Group, makes the "Six O'Clock News." On November 18 WSB-TV reviewed ETL's heartpacemaker investigations as part of their regular evening news program. Several views of the EMC Lab and various pacer related activities were telecast.

**Bill Free**, EMC Group, spent November 8-10 in California, attending a seminar on the tailoring of specifications and standards at the Naval Post Graduate School. He also visited Hughes Corporation at Canoga Park on November 11.

**Ron Wallace**, CTG, attended a conference on R&D in highway transportation, November 8 at Ohio State University in Columbus.

**R. W. Rice**, CTG, was in Washington October 31 to discuss a trade-off study of broadcast regulation.

## International Programs Office

**Ross Hammond** testified in Boston Nov. 30 at a National Research Council hearing held as part of a study to assist the State Department in preparing the U. S. position for the 1979 U. N. Conference on Science and Technology for Development.

**Phil Potts** and **John Tatom** were on site in Ghana Dec. 3-11 to kick off Phase 2 of the AID-sponsored Ghana pyrolysis project. Construction will start in January at Kumasi on a six-ton-per-day labor-intensive pyrolysis unit that will use the plentiful local sawmill residues as feed. The resultant char will be sold as cooking fuel, the gas will be used to dry the feed, and the oil will be used to fire a large Kumasi brick kiln operation. Potts is director of the seven-month project and Tatom is project consultant.

Georgia Tech and the Office of International Programs hosted 13 distinguished scientists from 13 countries in Europe, Africa, Asia and the

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**The Director of EES, Don Grace, extends to all members of the staff and our associates at Georgia Tech sincere good wishes for a happy, successful and prosperous New Year.**

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Caribbean plus their State Department escorts on November 28. The visitors were winding up a four-week tour of scientific and technological research institutions in the United States.

Welcome to **Margaret Luhrs**, who reported to work at IPO December 1 as a Secretary II.

**Kermit Moh** was in Costa Rica and Nicaragua Nov. 22-Dec. 9 supervising the AID pump project.

**Kay Auciello** was in Washington November 16-17 in connection with AID project work.

**Nelson Wall** was in Brazil Nov. 28-Dec. 9 to work on the Small Industry Grant project with the Educational Foundation of Southern Santa Catarina (FESSC) and to present a seminar to the FESSC staff.

## Systems and Techniques Laboratory

**David A. Keith**, assistant manager of the XM Program Office, and wife, Glenda, are the proud parents of their first child, Alden Harbour Keith, born November 8, and weighing in at 2.84 kg.

**Deborah Frye**, secretary to **Sam T. Alford**, manager of the XM Program Office, is flying to Seattle early in December for the month. Her activities in the West will include attending a family reunion and skiing on Mt. Ranier.

New employees in the Systems Development Division are: **Bennie L. Seatts** (Electronic Technician II), **Lawrence E. Banta** (Assistant Research Scientist) and **Robert A. Muzio** (Assistant Research Scientist).

## Minimum Wage Effective January 1, 1978

The minimum salary effective January 1, 1978, will be \$2.65 per hour. The remaining schedule for wage increases under the minimum wage law is as follows:

|                        |                 |
|------------------------|-----------------|
| Effective Jan. 1, 1979 | \$2.90 per hour |
| Effective Jan. 1, 1980 | \$3.10 per hour |
| Effective Jan. 1, 1981 | \$3.35 per hour |

To effect the required increases for non-exempt classified and student employees whose current rate of earning is less than \$2.65 per hour, it will be necessary to submit a Personnel Action Form (Pers-1) prior to January 1, 1978.

Any salaries below the minimum will be adjusted by the R&P Department.

## Services News

Congratulations are extended to **Jack Sutton** on the birth of her son, Darrell Lee, born November 4. While Jackie is away, **Denise Brewbaker** is taking her place as receptionist for the Baker Building.

**Tom Jones** will attend a meeting of the Interservice Committee on Technical Facilities at the University of South Florida in Tampa on January 9 and 10.