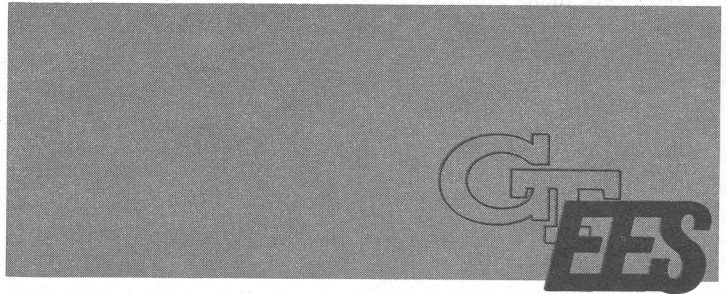


STATION NEWS

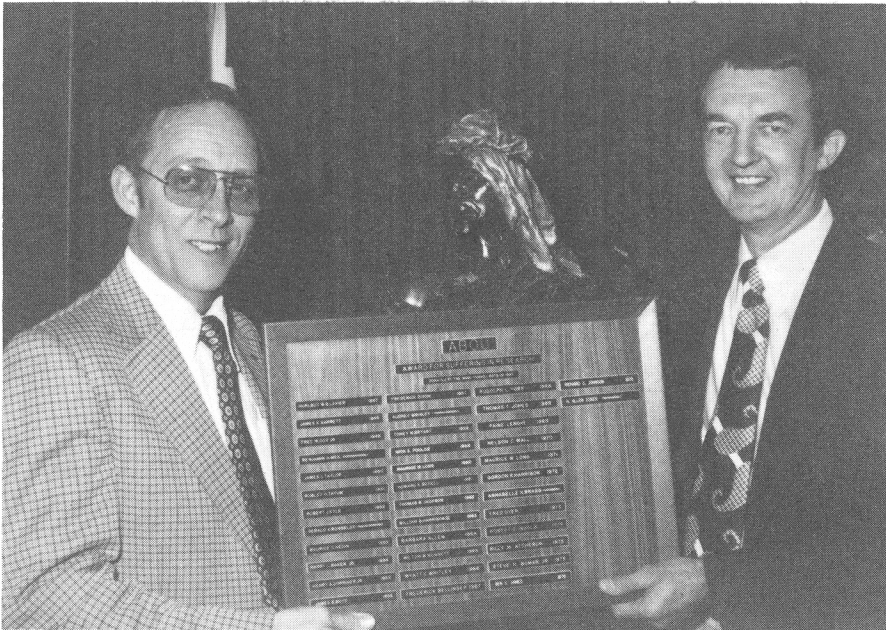


ENGINEERING EXPERIMENT STATION • GEORGIA TECH

VOLUME 6 NUMBER 1

FEBRUARY, 1977

Ben James and Dick Johnson Receive 1976 Abou Awards



1976 Abou winners Ben James (left) and Dick Johnson display Abou Honor Roll.

The highlight of the EES Christmas party was the annual award of the Abou citation. The 1976 award went to two distinguished staff members: Ben James, chief of the Area Development Division of EDL and to EES Associate Director, Dick Johnson.

The citations for the co-awards were as follows:

Ben James

This year's Abou co-winner is unique in that he has not only suffered in the cause of research here at EES, he has suffered on a statewide basis. Furthermore, he has had assistance from seven area "suffering" offices to compound his problems. However our winner does come well prepared for this line of work at EES having received a bachelor's

degree in expense account mythology, a master's degree in ethnic joke recitation and the doctorate in leased car management. His sufferings in the cause of research at EES are almost too legion to mention. However a few must be mentioned here in order to permit proper appreciation of the anguish and utter misery to which this dedicated engineer is constantly subjected.

He was indoctrinated into the EES area office system under a stern Dutch taskmaster who lacked appreciation of our winner's finely developed skills for talking on the telephone and riding around in automobiles.

He has had to serve as an unwilling consultant to the City of Sandersville of the unionization of municipal employees.

As a world renowned advisor to industry and energy conservation specialist he keeps his engineering skills in practice by connecting the fan to his

home furnace backwards so that it would exhaust warm air during the winter months.

As an industrial engineer adept in the fields of packaging and materials handling he packed the family luggage on top of his car so well that it all blew off while traveling at high speed on I-285.

Life is not all black and blue for our winner tho' — in supervising the seven EES area offices which are equally distributed around the state he finds time to spend every third working day — on the average — at Jekyll Island. He has acquired the world's largest collection of used Corvairs — all of which are unsafe at any speed. Lastly, he has won international renown for his astounding demonstration of "how to catch a suitcase on your head while flying in a jet to Korea — and survive."

To that intrepid ringmaster of our Area Office circus — Ben James — goes the Abou co-award for 1976!

Dick Johnson

The other Abou co-winner this year has the first classified citation in the 30-year undistinguished history of the award. The envelope is marked "Secret—BBR." An urgent consultation with resident translators of the governmentese language reveals that "BBR" means "Burn Before Reading." However, there is an attached unclassified abstract which hits the low points of his unmentionable suffering in the interests of research at Georgia Tech.

ABSTRACT

Our co-winner this year came to EES well prepared for his suffering, holding the academic degrees Bachelor of Science in House Wiring with a minor in Fishing Wires through Old Walls, a Master of Science in Building Renovation and Cost Management, and a Ph.D. in Interlaboratory Research Competition. The suffering he has experienced this year was largely caused by people above and below

Continued next page

him in the organization, thus qualifying him for the award under Abou's suicide clause.

As the chief judge appointed to rule on cases of interlaboratory idea-stealing and sponsor-seduction at EES, he has occasionally shown wisdom, justice and moderation, with the unhappy result that all concerned parties wound up being mad at *him* rather than each other. The judicial expertise which made these accomplishments possible was acquired at great personal sacrifice and cost from his ex-wife's succession of lawyers.

He has been one of the administrators responsible for presiding over four major building renovations this year, including the Tenth Street deterioration, the WGST Studio desecration, the C&S Bank disaster and the Hinman Building devastation. Under the diffuse management of our awardee and other unknown officials, these projects have been conducted in the timely and efficient manner we have grown to expect at Georgia Tech, for example: schedule slippages not exceeding 12 to 15 months, cost overruns not exceeding factors of four or five, and delays of sponsored programs not quite sufficient to cause cancellation. As a result of these accomplishments he has become the victim of a vicious rumor that this year's E-money has been squandered on recessed light fixtures, walnut paneling, wall-to-wall carpets, wet bars, and a conference table that leaves no space for people in the room.

As a major contributor to the State of Georgia's proposal for the Solar Energy Research Institute, he has jumped into a cauldron of political intrigue that should render him an exceptionally needy recipient of Abou's power to relieve suffering during the coming year.

With Season's Sympathies from previous sufferers, the Abou Committee makes this 1976 award to co-winner Dick Johnson.

United Fund Drive Reaches New Goal

The 1976 EES United Fund Drive collected \$7,657. This was three thousand dollars more than the total 1975 collection.

According to EES Director, **Dr. Donald Grace**, 242 contributions were made — an increase of 16% over last year.

The United Fund Drive, coordinated by Ann Mintz, secretary to Associate EES Director, **Dr. Richard Johnson**, distributes money to all recognized charities in the U.S.

EES Policy Planning Committees

EES Director **Dr. Donald Grace** recently established seven Policy Planning Committees, composed of EES staff personnel, to review the findings and recommendations submitted by the External Advisory Council. The new committees were formed as an outgrowth of the Advisory Council that met in November, 1976.

Each of the six-member committees will seek to define the problems and needs of the station, propose policies, and recommend methods for implementing policies to achieve a desired set of goals.

The EES Policy Planning Committees and their members include:

Contract Development

J. L. Birchfield (PTAL)
H. A. Corriher (OOD)
*N. W. Cox (ASL)
R. W. Hammond (EDL)
R. W. Moss (ETL)

External Image

*H. A. Corriher (OOD)
S. L. Dudley (EDL)
J. W. Dees (EML)
J. A. Donovan (TSD)
J. C. Toler (AEL)

Goals & Plans

H. G. Dean (OOD)
H. W. Denny (ETL)
J. L. Eaves (AEL)
R. M. Goodman (STL)
J. M. Spurlock (ASL)
*W. C. Ward (EDL)

Management Procedures

D. S. Clifton (EDL)
H. G. Dean (OOD)
E. W. Martin (STL)
*D. W. Robertson (ETL)
R. P. Zimmer (AEL)
S. T. Alford (STL)

Personnel

F. B. Dyer (STL)
*D. J. Grace (OOD)
G. R. Harrison (ASL)
T. M. Hedges (AEL)
W. C. Howard (EDL)
W. L. Leverett (STL)
B. C. Yarborough (TSD)
R. A. Young (ASL)

Productivity

E. L. Burks (PTAL)
D. J. Grace (OOD)
J. L. Lewis (EDL)
*R. L. Yobs (PTAL)

Technology Planning

J. J. Heckman (AEL)
R. C. Johnson (OOD)
T. M. Miller (AEL)
D. J. O'Neil (PTAL)

E. K. Reedy (STL)
J. D. Walton (ASL)

*Denotes Chairman

All EES staff members are encouraged to contact the committees and to submit informal comments and suggestions; verbally or in writing, or to make brief presentations to the committee meetings.

The committees will submit their reports and recommendations to Dr. Grace by April 1.

Seminar on Simple Facts About Management

Dr. Robert W. Carney, professor in the College of Industrial Management at Georgia Tech, will present seminars on "Some Simple Facts About Management," during two sessions in Lecture Room #1 of the Physics Building on February 22 and 24.

The seminars will be held between 3 p.m. and 5 p.m. each day. They are designed for lab directors, division chiefs and project directors. EES staff professionals interested in attending should register through their lab directors.

These seminars are part of a series being planned by the EES Professional Staff Development Committee. For additional information contact **Bill Howard** at X3844, EDL.

An Equal Education and Employment Opportunity Institution

STATION NEWS

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Christmas Party Candid Camera



More Christmas Party Scenes



Airborne Lab Joins EES

Dick Hodges, chief of the Counter-Measures Division, AEL, recently delivered the EES Airborne Electronics Laboratory to its new home base at Fulton County Airport.

The Convair 240-27 type aircraft had been in U.S. Air Force storage at Tucson, Arizona, before being made available for research use by Georgia Tech.

Known as a T-29B in Air Force nomenclature, the aircraft is a twin engine, pressurized cargo type airplane. It has a wing span of 92-feet, a cruising speed of 248 mph, a service ceiling of about 23,500-feet with a range of 1,500 miles. It has eight passenger type seats plus the additional seats that will be installed for electronics research operators.

It will have equipment racks with ample space for installation of complex electronic systems, data recorders and consoles.

Two radomes are available in the aircraft; one on the underside forward and one in the nose structure. Both 28-Vdc and 400 Hz power sources are available. This airborne laboratory platform is FAA certified for research activities.

Maintenance is expected to be provided through the State of Georgia Department of Air Transportation. Fully qualified pilots with extensive flight test experience will be employed.

EES has been involved with flight test evaluations for over a decade. Valuable experience has been gained with flight test operations at many DOD ranges as well as other test locations. Our researchers are experienced in all stages of flight test evaluation including: test plans, aircraft modification, equipment installation, data collection, evaluation and reporting.

The combination of experienced scientific crews and Georgia Tech Airborne Electronics Lab provides EES with another unique and cost effective flight test and research capability.

"Off we go into the wild blue"

EES Mail

It is illegal to use EES envelopes and mailing service for personal mail.

Energy Briefing for State Legislators

A briefing on Georgia's Energy Futures was given by the Productivity and Technology Applications Laboratory of EES on January 27. Over 30 members of the state Legislature including the Senate's Appropriations, Labor and Industry committees and the House Committees on Appropriations and on Industry, were in attendance.

The presentation, held at the C&S Bank Tower, was under the direction of **Rudy Yobs**, director of PTAL, in coordination with the Georgia Poultry Federation and the State Office of Energy Resources and House Industry Committee.

Dr. Joseph M. Pettit, president of Georgia Tech and **Dr. Donald J. Grace**, director of the Engineering Experiment Station, joined in welcoming the legislators to the briefing.

Areas of discussion included: "State and National Energy Projections" by **Jerry Birchfield** and **Steven Day**; "Financial Requirements to meet Energy Needs" by **Fred Tarpley**; and "The Impact of Energy Shortages on Employment" by **Rudy Yobs**.

According to Assistant Researcher Steven Day, ASL, "Natural gas is the biggest problem facing the state." He said the state and the nation need to shift from natural gas and petroleum toward electricity and coal. "If our current usage patterns continue," he said, "we'll be faced with a 20% energy shortage by 1990."

Based on U.S. government projections, Day indicated the forecasts could change drastically, depending on Georgia's economic growth.

As a means of conserving the state's energy supply, Day recommended four measures; (1) provide better insulation (2) consider long-range plans for constructing industrial sites near one another for ultimate usage of process steam (3) apply new technology and (4) convert bio-mass into energy alternatives.

These measures, currently being studied by EES and Georgia Tech, were further explained by Jerry Birchfield, chief of the Productivity Division.

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Engineering Education Meeting Discusses International Programs

The Economic Development Laboratory hosted the 1977 mid-winter meeting of the International Division of the American Society for Engineering Education (ASEE). The two-day meeting was held January 27-28 at Stouffers Hotel, Atlanta.

Over 100 members attended according to Division Vice-Chairman Franklin Ahimaz, associate Dean of Engineering at Cornell University.

The members examined the committee structure of the Division, and explored engineering opportunities for educators, researchers and administrators participating in engineering education programs with international organizations.

Guest speakers attending the meeting included: Dr. Ismael Escovar, chief, Education, Science and Technology Section, Inter-American Development Bank; and Dr. Henry Nau, consultant, U.S. Department of State.

Additional guest lecturers included: **Ross Hammond**, director, Economic Development Laboratory of Engineering Experiment Station; Ted Owens, AID administrator; Jorge Garcia, Secretariat for Development Corporation, OAS; and Harold Shipman, advisor to the World Bank.

Yobs Receives Two Appointments

Rudy Yobs has been named by Governor George Busbee to serve on the newly created Economic Development Council of Georgia. He was also named by the Board of Regents as a member of the Full Employment in Georgia Study Committee.

Yobs was one of 15 Atlantans selected to serve on the Economic Development Council which was formed to develop policies and encourage economic growth within the state. The council will be chaired by Lt. Governor Zell Miller.

As a member of the Full Employment in Georgia Study Committee, Yobs will assist in preparing recommendations to the General Assembly through which full employment in Georgia may be achieved.

INFO

A new Data Base Management System, maintains information on personnel, proposals, projects, and cash flow, for the Systems and Techniques Laboratory.

Created by the advanced sensors division under the direction of **Ms. Edith Martin**, the totally interactive computer system requires only minimal knowledge by the user and permits full access to all system capabilities via a single program.

Data is entered into the computer through a keyboard panel. Query results and up-to-date reports are displayed on a graphic screen, line printer or incremental plotter.

INFO is used as an effective decision-making tool in the daily operation of the S&T Lab. It aids management at the project, division and laboratory levels by supplying timely information for planning, reporting and forecasting.

INFO utilizes two basic operations: inquiry and update. Inquiry allows retrieval of the data base information while update permits the establishment and maintenance of the data base.

By using a minimum codification program, reports can be generated periodically or upon demand. Documentation such as system flowcharts, file layouts, user manual operations, program narratives and operating instructions are available for training, maintenance and modification.

The Data Base Management System, which runs on a 32K mini-computer, was completed within seven months . . . a project normally requiring at least one year to complete. The system has been so successful that it may be expanded to include management data input from other laboratories with the EES organization by mid-1977.

Assisting Ms. Martin in systems development and hardware support were: **Jeanette Myers, Kathie McMillan, Sam Fite, Jeanne Hanks, Bruce Rakes, Clyde Roby, Doug Wrege and Thomas Divine.**

PTAL News

Lee Burks participated in the grants review panel for the Women in Science program, Science Manpower Directorate, the National

Science Foundation, on January 13-15. Ms. Burks also served as keynote speaker for the state-wide career guidance conference on Women in Engineering held at Texas A&M University on January 15-16.

Last fall a workshop was held in Dalton as part of the EDA sponsored "Project to Reduce the Impact of Energy Shortages and Cost Increases in Industrial Production in the Southeast." The workshop material, oriented towards the textile industry, was well received. Similar workshops in other energy intensive industries recently presented were: Energy Conservation in Manufacturing Industries — January 31 at Savannah, Georgia and February 3 at Atlanta, Georgia.

PTAL announces the hiring of **Carol Williams** as secretary, as of February 1.

EDL Gets New Defense Department Contract

Bob Cassell journeyed to Savannah, Ill., and Baraboo, Wisc., January 12-14 to initiate the first (or planning) phase of a "Community Organization for Economic Development Program (COEDP)" under contract to the Department of Defense's Office of Economic Adjustment (OEA). The OEA was established to assist communities in marshalling their resources to lessen the economic impact of military base closings in their areas. The COEDP program developed by EDL is a training activity using simulation techniques to show industrial development volunteer teams how to carry out more effective industrial promotion efforts.

Recent Short Course Announcements

Georgia Tech Continuing Education Courses:

"*Some Simple Facts about Management*," March 17, 1977.

"*How-to-do-it Fundamentals for Supervisors*," March 29-May 31, 1977.

"*Cost Benefit Analysis*," March 17-18, June 9-10, 1977.

"*Basic Industrial Development*," April 10-15, 1977.

Call Bob Collier, X3820 for information.

Sand T Lab News

Nick Currie, Clark Butterworth, Lucien Bomar, Tom Morton, Carl Taylor and John Lancaster participated in the second phase of the airborne tests of the AN/APS-127 radar system at Boca Raton, Florida, from 7 January through 15 January.

Fred Dyer, Mike Tuley and Bill O'Dowd traveled to NAVALEX, Washington, DC, on 25 January for technical discussions.

George Ewell traveled to NWC at China Lake, California, for technical discussions January 18-20.

Don Sanford, Pat Ryan, Edie Martin, Jerry Cederquist, Fred Dyer, Steve Zehner, Tom Divine and Harold Bassett made presentations to sponsors from Eglin Air Force Base on the SADS VI simulation program on 26 and 27 January at EES.

EES Services

Geneva Minter and Carol Kelley are new employees in the Report Section of the Reports & Procedures Office.

Daryl Young is the new messenger for EES personnel.

AEL News

On November 1, 1976, **Glenna Kaye Maiké** was employed in the Systems Engineering Division as Secretary I.

Larry Holland attended the National Telecommunications Conference at the Dallas Fairmont Hotel in Dallas, Texas November 29-December 1, 1976.

D. Willmer on Sen. Nunn's Staff

Doris Willmer (PTAL) has recently returned from a three-month assignment as an intern on Senator Sam Nunn's staff. Doris, who is a research engineer and group leader of PTAL's Public Systems and Productivity Group is also working on a master's degree in operations research. Doris was one of twelve students selected in a statewide competition for the intern program. The program is administered by the Institute of Government at the University of Georgia and all students who attend an academic institution affiliated with the program are eligible to apply.