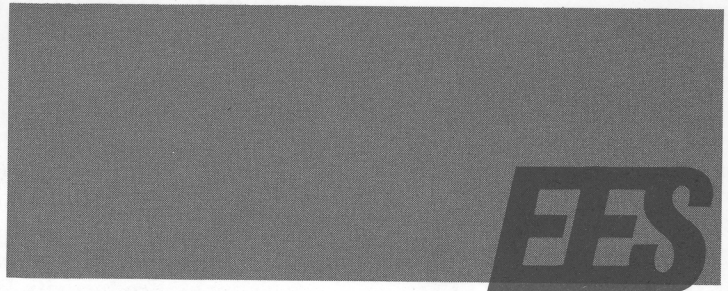


STATION NEWS

ENGINEERING EXPERIMENT STATION • GEORGIA TECH



VOLUME 4 NUMBER 1

FEBRUARY 1975

ABOU Award to Ingols

The main event of the EES Christmas party was the presentation of the 1974 ABOU Award to Bob Ingols. The citation was made by Director Maurice Long and the ABOU trophy handed over to Bob by the 1973 recipient, Fred Dyer, with the approval and congratulations of all present.

Dr. Long stated that, "The ABOU Award Committee was unanimous in the selection and recognition of the recipient for 1974. This internationally-known researcher is in the distinguished twilight of a long-suffering career, many years of which have been spent 'screaming in the wilderness' or more aptly put 'shoveling the sludge' in a world not ready to recognize its future pollution and water problems. For continuing to personally suffer for mankind in research on unesthetic problems and for knowing more about 'dam' water in a world that largely doesn't give a 'hoot,' we feel it most appropriate to provide the comfort, protection, and the infinite



Dr. Bob Ingols

suffering and worrying capacity of ABOU to our Mr. Pollution Control, Dr. Robert S. Ingols."

The ABOU citation read in part: "To Dr. Robert S. Ingols the 1974 ABOU Award is presented for the many past and continuing years of suffering in research on wastewater treatment and pollution problems, many of which have not been acknowledged, and for which you have not and will not receive due credit and recognition."

New Display Equipment

The Station has recently acquired a multiscreen display system consisting of ten metal framed, cloth covered panels for the display of charts, photos, diagrams and graphics related to EES projects. The portable multiscreen kit is available for use at meetings, conferences and conventions to tell about EES activities and capabilities. It can now be seen in the Baker Building lobby with a Remote Sensing display prepared by Bill Spann of Special Techniques. In coming months, the divisions will be requested to make up displays that

can be shown in the EES lobby. Call Jim Donovan at the Publications Office, 3405, for additional information.

Sheila Carson, a recent graduate of Auburn University, is a new secretary in IDD's Community Development Branch.

Shared-time additions to IDD's AID 211(d) project staff are **Dr. John R. Kaatz**, Associate Professor in the College of Industrial Management, and **Dr. Kenneth S. Stephens**, Lecturer in the School of Industrial and Systems Engineering. Both are working at IDD winter quarter.

Sensor Systems Division Reorganization

Bob Goodman, Chief of the Sensor Systems Division, announced 31 January that, effective 1 February, the Division will be reorganized to form three branches. The newly formed branches will be called the Systems Development Branch, the Systems Methodology Branch, and the Systems Technology Branch. In addition, a technical guidance group for the Division will be established, to be called the Advanced Concepts Group. The memorandum announcing the changes also assigned the Division projects to the three branches, and set forth personnel assignments.

Accompanying the reorganization are the following appointments:

S. T. Alford, Head, Systems Development Branch.

F. B. Dyer, Head, Systems Methodology Branch.

E. K. Reedy, Head, Systems Technology Branch.

This action is being taken to recognize past accomplishments and the growth potential that now exists. Formed in 1969 as the Sensor Systems Branch of the old Electronics Division, the organization became the Sensor Systems Division in 1972 when the Electronics Division became the Systems and Techniques Department of EES. It has followed a curve of accelerating growth since its formation, and is now the largest such organization at EES. The staff had grown to some 84 persons last month, including part-time personnel and students. Presently the Division has a backlog of over a million dollars in funded sponsored programs, with over 1.6 million dollars of promising outstanding proposals. The Division performs

Continued

Continued

research in a variety of fields, but has concentrated on work in the areas of:

- radar systems analysis/development
- antenna analysis/development
- techniques for radar detection in clutter
- radar field measurements
- mechanical R&D

NEW PROJECTS

Urban East Consultants to IDD (**P.W. Potts**) for a feasibility study on relocation of displaced businesses — Savannah, GA to IDD (**W.C. Howard**) for unemployment analysis, training and employment generation program — Federal Energy Ad. to ASD (**J.M. Spurlock**) for monitoring industrial energy conservation — USDA Forest Service to RD (**R.G. Pearl**) for computer instruction development — Office of Naval Research to SSD (**E.K. Reedy**) for indirect fire instrumentation feasibility study—Coastal APDC to HTMD (**N.E. Poulos**) for study of the potential of coastal GA as a solar energy research and development laboratory site — Versar, Inc. to PSD (**J.L. Brown**) for asbestos determination — Georgia Power to IDD (**D.E. Lodge**) for economic studies and to (**R.B. Cassell**) for services to the Community Development Department — Coggins Granite Industries to IDD (**R.L. Tessner**) for engineering and technical assistance — Army Missile Command to HTMD (**J.N. Harris**) for high purity slip cast fused silica samples — LBC&W-Harwood Beebe Co. to PSD (**R.S. Ingols**) for aid in designing waste water treatment facilities — A.D. Poulin to TAG (**W.H. Burrows**) for research services — SSI Consultants to PSD (**J.L. Brown**) for analytical services in microscopy and X-ray diffraction — New Mexico State University to HTMD (**J.D. Walton**) for seminar on requirements for a large solar energy test facility — Freeport Sulphur Co. to PSD (**J.L. Brown**) for microprobe analysis and microscopy — Atlanta Regional Commission to TSD (**J.L. Birchfield**) for evaluation support services.

Conservation is NOW

Senate Productivity Hearings

A delegation of Georgians led by EES personnel testified before the Senate Committee on Government Operations December 16-17. Georgia Senator Sam Nunn chaired the hearings which involved his National Productivity Act of 1974 and Senator Charles Percy's bill for a National Center for Productivity and Economic Competition Act. Both proposed bills are based in part on the EES Productivity Program.

Testifying for EES were Assistant Director **R.L. Yobs** and Senior Research Engineer **Jerry L. Birchfield**. Witnesses endorsing and supporting the bills were Vice President Alex Sessoms, Jr., Union Timber Co., Cogdell, GA; Director R.E. Ruark, Georgia Forest Research Council, Macon; Director of Technical Services **Barry Torrance**, Carpet and Rug Institute, Dalton; Executive Director **Jack Jericho**, American Institute of Industrial Engineers, Atlanta, and Assistant Dean **Dr. James Miller**, Georgia State University School of Business Administration, Atlanta.

The EES Productivity Program has attracted attention because of its broad definition of productivity and its state-wide Industrial Extension Service. The EES Productivity Program attempts to make more efficient use of materials, energy, management time and capital in industry, service and governmental sectors. The EES has the capability of identifying problems, backing solutions with research and distributing results through its seven field offices.

From 1947 until 1973, U.S. productivity grew at a rate of 3.1 percent per year. In 1973 and 1974, the rate has steadily declined until it is now almost zero. According to Senator Nunn, "A healthy rate of productivity growth means that our economy can support a steadily rising rate of wages without necessarily forcing a major increase in prices. The absence of productivity growth during this past year has intensified inflationary pressures throughout the economy and decreased our competitive edge with exports in a crucial balance-of-trade area."

His proposed legislation provides for a strong federal stance, a national center for gathering and disseminating productivity information, a grant program for research and development and for state and local productivity centers and an effort to increase governmental productivity.

Cassell Addresses Land-Use Forum

Robert B. Cassell, IDD, was a speaker at a land-use forum at the Hopkinsville (Ky.) Community College January 25. He led a discussion on the economics of industrial development at the forum, which was sponsored by the League of Women Voters and Chamber of Commerce.

An article by Bob, "The Dynamics of International Business Development," appeared in the October 1974 issue of the *AIDC Journal*, published by the American Industrial Development Council.

1974 Annual Report

The public edition of the "1974 EES Annual Report," a 24-page book with color illustrations, is available upon request to the Publications Office, 3405.

Thank You

The planners of the Christmas Party would like to thank all those who contributed their time and talents. **Jerry Webb**, IDD, did the decorations and **Mary Lupton**, ASD, was in charge of the food. **Mary** asked us to publicly thank **Denise Kisselburg**, **Martha Miller**, **Mary Hewett**, **Nancy McHan**, **Turueworq Desta**, **Janie Lovern** and **Betty Jaffe** for bringing and preparing the delicious food. **Mary** said, "A great big hug for everybody for their physical effort and moral support. The people who came also deserve thanks for making the party a success."

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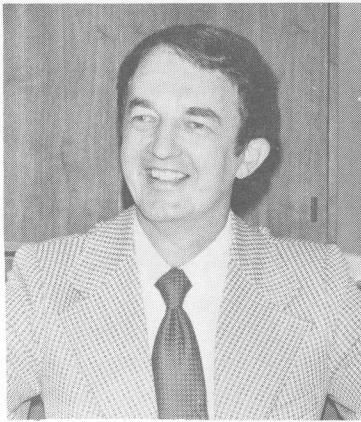
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Christmas Party, 1974



Drs. Johnson and Harrison Elected Fellows



Dick Johnson



Gordon Harrison

Dr. Richard C. Johnson, Assistant Director for Systems and Techniques, and Dr. Gordon R. Harrison, Assistant Director for Applied Sciences, recently were elected to the grade of Fellow in the Institute of Electrical and Electronics Engineers. The grade of Fellow is one of unusual professional distinction conferred only upon a person of extraordinary qualifications and experience.

The IEEE Board of Directors

conferred the highest grade of membership to Dr. Johnson with the citation, "For contributions to and leadership in antenna measurements and rapid-scan microwave antennas."

Dr. Harrison's citation was, "For contributions and technical leadership in the development of microwave ferrimagnetic compounds and their application in microwave components and integrated circuits."

NEW FACES IN APPLIED SCIENCES

Jeffrey S. Tiller and Stephen W. Day, Assistant Research Engineers, have joined the staff of ASD. Jeff and Steve are working with Jack Spurlock and Bob Mason on energy-related programs in the Department.

John W. Goodrum, Research Engineer, is a new employee in ASD. John just recently received his Ph.D. degree in Ch.E./Metallurgy from Georgia Tech.

George W. Leddicotte has resigned as Principal Research Scientist, NBSD/ASD to devote full time to his new business venture.

Bing W. Jong, Research Engineer, HTMD/ASD, has resigned to accept a position with the U.S. Bureau of Mines, Tuscaloosa Metallurgy Research Laboratory in Alabama.

Development Conference at Tech

A two-day conference on Techniques and Methodologies for Stimulating Small-Scale Labor-Intensive Industries in Developing Countries will be conducted by the IDD under the auspices of AID on 10-11 March. The conference meetings will be held in the Space Science and Technology Building and numerous prominent development leaders will make presentations.

Machine Shop Promotions

Harold Huey became Machine Shop Foreman Feb. 1, replacing the late Dan Thomas. In other personnel changes, John Coker was promoted to assistant machine shop foreman and Phinizy Scarboro became an instrument maker. Jimmy Dameron continues as assistant machine shop foreman.

EES in Film Production

The U.S. Department of Agriculture's Forest Service is sponsoring the production of video tapes to instruct its staff in how to use their computer network. The computer itself is in Ft. Collins, Col. and is used via phone lines by regional offices and ranger stations to obtain necessary information about the National Forests. The video tapes will explain what the different computer programs do and what their capabilities are. The preliminary taping took place at the Tech Office of Computing Services, and the final color taping will be done in the University of Georgia Journalism School's television studio. Project Director **Ron Pearl** said the contract calls for three or four such tapes.

Ron said this contract is an example of the Productivity Program's developing expertise in communications techniques to deliver research results in an interesting manner. The video tape is one method to present such information and can be augmented by slides, film, artwork and lectures. Ron added that they are seeking more contracts for similar work.

Around The World In 80 Days

Ross Hammond and **Edwina Udunka** attended the U.S. Agency for International Development (AID) 211(d) Contractors' Meeting in San Antonio, Texas, in December. Their videotape presentation of IDD's work with Korean and Brazilian counterpart organizations was the hit of the session. Edwina went to Honolulu January 28-February 11 for additional work on videotape documentation in collaboration with the Technology and Development Institute of the East-West Center.

George Morelos, IDD, was in Tubarao, Brazil, December 8-16 in connection with the AID Small Industry Grant project there.

Ross Hammond and **President Joseph Pettit** went to Korea and the Philippines January 26-February 11 to visit 211(d) counterpart institutions.