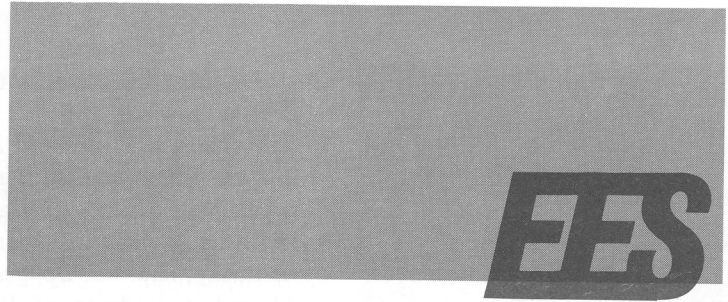


# STATION NEWS



ENGINEERING EXPERIMENT STATION • GEORGIA TECH

VOLUME 1 NUMBER 1

OCTOBER, 1972

## EES STARTS NEW PAPER

### Observations of the Director

The Engineering Experiment Station is an applied research center that is supported primarily from Federal and industrial contracts. The balance of funding comes from a State appropriation to encourage the development of Georgia. EES operates under a legislative charter that includes research and service for the benefit of Georgia's people, its industry and its economic development and assistance to national programs of science, technology, and preparedness. Its activities lead to the formation of new industry, products, and processes and the expansion of existing industry. It also solves problems that hamper industrial growth such as pollution caused by waste products of industry.

The Station serves the nation, State, and Institute through forefront technological research and development programs. It also serves the State by bringing in dollars to Georgia directly through contracts, through attracting industry to Georgia, through developing new industries, and creating new jobs in existing industries.

The total success of EES depends upon the efforts, the contributions, and the enthusiasm of everyone in the Station. The individual's interest and satisfactions are affected by his or her understanding of our purposes and recognition of the important role each performs.

The *Station News* is intended to improve the flow of information, to help coordinate our efforts, and to increase our pleasures in working together in our common efforts to serve the nation, the State and our community through our professions.

## SELF STUDY

During July and August, EES personnel responded to a request by Dr. Long to express personal opinions on a number of factors about EES. On September 6, the Director distributed a

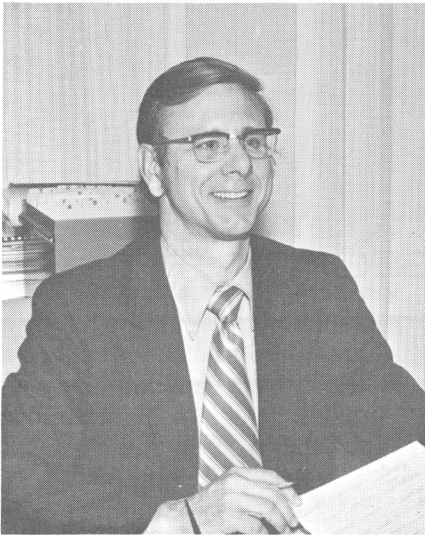
memo to all EES personnel summarizing the staff opinions. The results of the survey now provide a valuable management tool to identify problems, to improve information communication and to initiate corrective action.

The opinions reveal certain topics where relatively large numbers of respondents believe the situation is below average or poor. In coming months, your *Station News* hopes to investigate some of these topics, to amplify opinions and search for answers.

The subject of "Internal Communications-Administrative" was one that received low marks. The *Station News* will represent an immediate effort to improve internal communications. The *SN* staff hopes to receive contributions from everyone.



The IDD open house was noteworthy for refreshments and decoration — some of the decorative gals are seen discussing industrial development.



Dr. Maurice W. Long, Director of The Engineering Experiment Station since 1968.

## A MAN OF MANY INTERESTS

"Who's Who in America" lists Dr. Maurice W. Long as an electronics engineer and physicist who graduated from Georgia Tech in 1946 with a degree in Electrical Engineering and subsequently attained his M.S. in Electrical Engineering at the University of Kentucky in 1948, an M.S. in Physics in 1957 and a Ph.D. in Physics in 1959 both at Georgia Tech.

He was an instructor in E. E. at the University of Kentucky (1947-49) and did graduate work at Columbia (1949-50). He was married to the late Patricia L. Holmes in 1950 and began his full-time research and teaching at Georgia Tech that year; he became Head of the EES Radar Branch in 1955; Chief of the Electronics Division in 1959; and Director of the Engineering Experiment Station in 1968. He served in the U. S. Office of Naval Research in London as a Liaison Scientist in 1966-67, the only period away from Georgia Tech since 1950.

In addition to being a distinguished research scientist, engineer and teacher, Dr. Long is a devoted family man, world traveler and public servant. Born at Madisonville, Kentucky, in 1925, he has been a Georgian since his undergraduate days and is increasingly dedicated to projects related to improving the quality of life in Georgia and the Southeast.

Dr. Long married Atlantan, Beverly Benson Downing in 1963. They have four children, 21-year-old Ann Catherine Long Key (married this year) who is a graduate of Emory; Elizabeth Long, 18 and a student at the University of Kentucky; Theodore Douglas Downing, 24 and a graduate of Emory; and Beverly Patricia Downing Graham, 23, who attended Duke and the University of Georgia and who is now married.

The Longs reside in an attractive house enhanced by a swimming pool and large trees on Somerset Drive in northeast Atlanta. Their home interior is decorated with an interesting collection of paintings, prints and objects d'art collected in their travels.

Both Dr. and Mrs. Long maintain an active interest in serving the community and State. They are members of two of the Governor's committees; Dr. Long is on the Governor's Science Advisory Council and Mrs. Long is a member of the Human Resources Council. She is also very active in mental health work and has served as president of the Atlanta Mental Health Association.

The Longs enjoy world travel and in recent years have toured the USSR, Mexico, South America and Europe. During Sept. they journeyed north through the Appalachians and New England.

In addition to all of his scientific work, administrative responsibilities, public duties and family interests, Dr. Long finds time to jog regularly, write and maintain his basic interests in electronic research — and by keeping very busy in many fields enjoys the satisfactions of a full and productive life.

## EDITORIAL

### THE STATION NEWS

With this issue of the *Station News* the Engineering Experiment Station launches a new publication designed primarily for the people employed by the Station. The purpose of this "internal" publication will be to improve

communications at all levels and among the departments and divisions. There has been considerable evidence and comment that EES people would like to know more about "what is going on" in the Station.

The *Station News* will strive to present news of individuals and departments to humanize departmental activities and to make employees better acquainted with each other in the interest of closer cooperation.

It will also explain missions, research activities and new projects undertaken by the departments and divisions.

It will include information on administrative policies, aims and matters of interest and benefit to all personnel.

It will attempt to recognize the accomplishments of individuals, develop pride and loyalty as well as interest in EES functions and purposes.

The *News* will also be a means for building an atmosphere of free dialogue between management and the employees which will foster understanding and enthusiasm.

The *Station News* will be published monthly and hopefully will become an interesting and valuable contribution to the satisfactions of working at EES. Suggestions from our readers about the *News* will always be welcome.

J. A. Donovan  
Editor

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## DEPARTMENT NEWS

### From IDD

**Nelson Wall** is off to Washington D.C. on loan to OAS for a month. He's working for AID planning and programming technical assistance for Latin America.

**Martha Ann Deadmore** was in Piedmont Hospital on 15 September for an operation and we are happy to report she is recovering nicely.

**Bill Howard**, recently made Head of Special Projects, was in Georgia Baptist Hospital for an operation on 18 September and is now doing well.

**Dave Morgan** departed in August to become assistant Director Div. of Commercial Development, Fla. Dept. of Commerce. He will be living at Tallahassee.

**Zeke Wellslager** will be joining Dave's staff in October. Everyone in IDD extends good wishes to both.

**Frank Clark** received his Ph.D. at Emory during graduation ceremonies in August.

**Bill Studstill** is leaving IDD and going into private consulting in Albany.

On July 15, **Bob Collier** returned to IDD from two years at Spindletop Research in Lexington, Ky. and is now working in community development.

**Ben James** was promoted to Head, Field Officer Operations, for IDD when D. Morgan left.

**Bill Ward** became Head of Industrial Services Branch this past summer following the death of Bill Denman.

On 31 August, IDD held an Open House to familiarize local and State leaders with its people and facilities. Some 125 prominent guests attended including Ray Davis and Pen Warden from the Ga. Chamber of Commerce, H. W. Wiley and James Bohannon from State Dept. of Industry and Trade, Mario Goglia our Vice Chancellor for Research and others from banking, business and official circles.

### From Applied Sciences

**Mr. J. D. Walton, Jr.** went to Rome, Italy to visit sponsors of a contract with the HTMD. He spent 2 weeks in Odeillo, France with **Dr. Steve Bomar, Jr.** and **Harold Bassett** conducting high

temperature materials evaluation using the Solar Furnace located in Odeillo, which is in the Pyrenees. **Dr. Bomar** and **Mr. Bassett** also took a week's vacation with their wives.

**Richard A. Swan**, Research Technician I, has resigned his position with the HTMD to accept employment with an industrial firm effective September 22nd.

**Miss Donna Hope**, Secretary II, resigned her full time position with HTMD. She has been awarded a fellowship at Emory University to study Speech Therapy. She will be working part time at HTMD.

**Stanley Byers** will join the staff of the HTMD on October 15th as a Research Engineer. Mr. Byers anticipates receiving his Ph.D. degree this year.

**Dr. Bing W. Jong** and **Paul Theobald**, Research Engineers, joined the staff of the HTMD in June.

**Mrs. Kathryn V. Logan**, HTMD, is going on a 6 month maternity leave starting November 1st.

**Dr. John H. Murphy** of HTMD attended the Annual Meeting of the Naval Aeroballistic Advisory Committee in Dahlgren, Virginia, September 19-21, 1972. Dr. Murphy serves as a panel member on the Aeroelasticity & Structures Panel.

Culprit in the Kitchen—? A farewell party for **Charles Wagner** and **James House**, PSD, began on a "helluva" note Thursday, Sept. 14. When the cake, decorated in Georgia Tech colors, was unveiled, there — to the horror of **Betty Jaffe** who ordered it — was inscribed shakily along the front side "GO GEORGIA"!!! An extensive investigation is now underway for the culprit who entered, unknowingly, into the bakery's kitchen and professed his loyalty to the unmentionable Bulldogs!

**Charles Wagner** and **James House**, PSD, resigned September 15, 1972 in order to go into private business.

**John Carden, Jr.** has rejoined PSD as a Research Scientist September 13, 1972. Dr. Carden was previously employed at PSD as a GRA and received his Ph.D. in Chemistry this summer.

**Billy Livesay**, Senior Research Scientist, PSD, received his Ph.D. degree in Metallurgy this summer.

**James Phillips**, PSD, received his Ph.D. degree in Physics in September 1972. Dr. Phillips has accepted a posi-

tion at Fairchild Semiconductor, Palo Alto, Calif., as a Research Staff Member.

**J. L. Hubbard** attended technical briefing on Project A-1428, NASA/MSCF, Huntsville, Ala., August.

### From Systems and Techniques

**Dr. H. A. Ecker** has been appointed to membership on the Radar Systems Committee of the IEEE Professional Group on Aerospace Electronic Systems. He is one of fourteen persons in the nation selected to serve on the committee.

The EES has been invited to participate in the ATS-F 12/18 GHz Comsat/NASA Propagation Experiment being planned for 1973 and 1974. **J. W. Dees** is the Georgia Tech contact person for the experiment, which will seek to determine the influence of the earth's atmosphere on the propagation of energy at millimeter frequencies.

New full-time staff members in the S&T Dept. are **James Hanney** and **Norma Layton**, both secretaries in the Sensor Systems Division; **Molly J. Gary**, Assistant Research Scientist, and **Michael Tuley**, Asst. Res. Eng., in the Sensor Systems Division; **Joe L. Newton**, Asst. Res. Eng. in the Special Techniques Division; and **William J. Storey**, Asst. Res. Eng. in the Radar Division. **Melody Wilkes** has joined the staff of the Communications Division as a Clerk-Typist.

**Dr. R. C. Johnson**, Assistant Director for Systems and Techniques, was a member of the July-August Fulton County Grand Jury and Chairman of the Grand Jury's Committee on Narcotics and Drug Abuse. Dr. Johnson was particularly impressed with the morale and efficiency of the Atlanta Police Department but he thinks they still lack adequate equipment.

**Avon ("Bud") Bauman**, has an interesting hobby. He makes vases, bowls, and a variety of other useful items out of discarded jars and bottles. This esthetic and utilitarian recycling is accomplished with a "Clean Cut Bottle Cutter," sandpaper, epoxy glue, and "a little imagination." Bud has made fruit-bowls from Wesson Oil bottles and beer glasses from Coffeemate jars. Bud says that this is a pleasant hobby—you can create useful items or just join the ecology war for the fun of it."

## YOUR NEWS STAFF

The *Station News* is for the people of EES and is produced by representatives of every major activity.

The Editor, **Jim Donovan**, Head, Publications and Information, recently returned to EES where he had been with IDD several years ago. He has a background of editing and publishing with *Leatherneck* magazine, *Journal of the Armed Forces* and has worked in advertising, public relations and commercial art. He is also the author of two books.

**Johnnie Burt**, Assistant Editor, has been with Reports & Procedures since June, 1972. She majored in journalism at The University of Alabama and worked for four years with Alabama newspapers. She moved to Knoxville, Tennessee, in 1969 and was employed by the University of Tennessee until moving to Atlanta in March, 1972.

**John Cuevas**, Art Editor, and Supervisor of Reports and Visual Aids in IDD, is an accomplished graphic designer, illustrator, and layout artist. He has been with IDD since 1968 and is a graduate of the University of Southern Mississippi, BFA, where he studied commercial art.

**Ruth Bodner** is John's attractive assistant. She also joined IDD in 1968. She has an Associate's Degree from Rochester Institute of Technology in the School of Fine Arts.

The Associate Editors have been designated by the various departments where they are responsible for recognizing news and information suitable for the *Station News*. Without their knowledgeable contributions the paper would be a bust.

**Betty Yarborough** is Head of Reports & Procedures and represents the Technical Support Department. Betty has been with EES since 1963. She was graduated from Coker College at Hartsville, South Carolina, with a B.S. in Business Education.

**Betty Jaffe**, secretary to Assistant Director of Applied Sciences, has been with EES over 14 years—exactly how long may be a subject for a future story.

## PERSONALITY



**Barbara Allen heads Supply Services**

The slightly British voice you hear when you dial extension 3440, Supply Services, is **Barbara Allen**. Barbara moved to the United States from England when she was 25. She has been with EES since the early 1950's. "There's nothing I enjoy more than spending money, especially when it's not my own," she says jokingly about her job. Barbara became Head of Supply Services in 1971 having worked with the group since its beginning. Barbara has a son, Pat, now 25 and in his first year of law school at the University of Georgia. Besides her perpetual battle with her lawn and her interest in her son, Barbara finds time for her 11-year-old poodle, Sassy. Supply Services maintain a warehouse, mail delivery, and petty cash pickup service. One of their main services is verification of regulations of the various contracts the Station receives. Working with Barbara in S.S. are Helen Kite and Zemly Csonka.

The Systems and Techniques associate editor is **Ann Lewis**, secretary to the Assistant Director. She came to the Tech Computer Center in 1968 and joined S&T in 1972.

**Martha Ann Deadmore** represents IDD where she also edits the division's publications, does technical writing. She has been with IDD nine years.

Representing the Office of Program

Development and the Technology Applications Group, **Chart Bonham** (Lt. Cmdr. USNR) has been in the Director's office for seven years prior to which he spent five years in the Electronics Division.

The *Station News* is printed at the EES Photographic and Reproduction Laboratory under the supervision of **Ed Garrett**.

## FOR YOUR INFORMATION

EES PHOTOGRAPHIC CONTEST will be reinstated this year and will be open to all staff members. There will be awards for first and second prize in the categories: (1) People or Animals, (2) Scenes or Buildings, (3) EES Professional-Scientific, and (4) Abstract-Miscellaneous. Contestants may submit two photos in each category. Color Transparencies, color or black and white prints will be accepted. Prints should be mounted and matted for display. Judges will be a panel of volunteer experts. Submit entries to Jim Donovan—Editor, between December 1 and 15. Winners will be announced at the EES Christmas Party.

## ANNUAL REPORT

The *Annual Report* of EES, 1971-1972, has recently been completed by Dr. M. W. Long. This 153-page document is our "official" (Not for Publication) report and includes sections on Observations of the Director, Research Operations and the Technical Support Department. It lists projects that have been active, publications by the staff, papers presented (84), professional activities and staff statistics. For example, did you know that on May 31, 1972, there were 494 people employed at EES? Full-time employees number 282. There are 53 part-time Graduate Research Assistants. There are 46 people holding Ph.D. degrees, 85 with their Master's and 62 with Bachelor degrees on the staff.

An illustrated digest of this Annual Report is being prepared for publication and distribution to "non official" individuals who should be informed about EES activities.