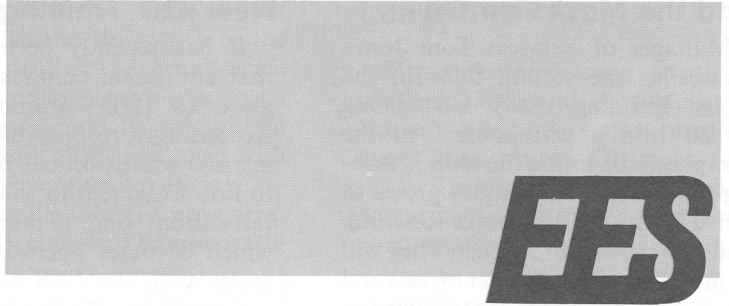


STATION NEWS



ENGINEERING EXPERIMENT STATION • GEORGIA TECH

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SEPTEMBER, 1975

Director M.W. Long Resigns

Dr. Maurice Long surprised the EES staff on August 13 when he announced his plan to resign the position of Director effective about the end of September.

Dr. Long had just returned from a European vacation which included a North Cape cruise to the sub-Arctic waters above Scandinavia. He called a meeting of the division and department heads on the 13th and told them with some regret that after considerable thought, he had decided to resign from EES to pursue other interests and to be free for more travel.

He stated that he had served at Georgia Tech and the EES since 1946, was qualified for retirement benefits and felt it was time to move along to other fields of endeavor and to make room for new leadership and fresh management at EES.

He noted that EES is now in a vigorous growth posture and it appears to be a good time to turn over to a new director.

Dr. Long obtained his BEE from Georgia Tech with the Class of 1946 and has been engaged in research work with the EES since that year. He spent short periods away to earn his MS in EE at the University of Kentucky, 1948, and to do graduate work at Columbia University in 1949-50. He received an MS in Physics in 1957 and his PhD in Physics in 1959, both at Georgia Tech.

He organized the EES Radar Branch in 1955 and the Electronics Division in 1959. He also served in the U.S. Office of Naval Research in London as a Liaison Scientist disseminating information in science and technology throughout Western

Europe.

Dr. Long has been director of the Engineering Experiment Station since 1968 during which time it has greatly expanded in size and scope of activities and is now the major technical and scientific research institution in the Southeast serving the industrial and economic development of Georgia and the region.

Dr. Long has good reason to be pleased and proud of his long service to EES and Georgia Tech, and the EES staff regrets his leaving but at the same time joins in heartfelt best wishes for his future travels and ventures.



M.W. Long

Director's Memo to the Staff

Dr. Long published the following memo to all EES personnel on

August 13:

"After reviewing my plans for retirement from the University System, I have informed President Pettit and Dr. Stelson of my desire to resign as Director of EES, effective September 30 or soon thereafter. Upon resignation I will retire on the basis of credit for more than 30 years of service.

"It is with a mixture of regret and excited anticipation that I resign the position of Director. This job is very challenging and has provided me much personal satisfaction. However, I want to have new experiences by trying other things now. First I want to start a consulting firm and then to eventually pursue research projects in cooperation with Georgia Tech. My interest will continue in working toward strengthening the contributions of EES and Georgia Tech for the people of Georgia and the Nation. However, this is an excellent time for me to resign because the backlog in research contracts at EES, the leadership within EES, and the Georgia Tech administration are at record peaks.

"My belief in EES and in the future growth of its program quality and size, in its capacity to carry out the legislated mandate (Georgia Code Chapter 32-2 Amended) for the development of Georgia, and in its continued faithful execution of this mandate is immense. I do, of course, intend to maintain a close association with you and others at Georgia Tech in the years ahead."

A handwritten signature of M.W. Long in cursive script.

And the Moves go On

Manager of Services **Tom Jones** assures us the second floor of the Baker Building really isn't being turned into a warehouse. All the paraphernalia lining the halls is waiting for Special Techniques group to arrive from the Electronics Research Building the end of August. They will be moving into the former offices and labs of the ASD Crystal Physics Branch whose staff members have been relocated in other offices throughout the Baker Building. **Ray Young**, head of Crystal Physics, and his secretary will remain in their offices until their new ones in the Physics Building are renovated in a couple of months. At that time, **J.W. Dees** and his secretary will move to the Baker Building. The space vacated by Special Techniques will be absorbed by the remaining expanding units in the Electronics Research Building.

Ron Pearl and **Joan Wood** of Productivity/Technology Applications have moved from the Baker Building to recently remodeled offices in the Hinman Building. Additional offices are being renovated for other members of the Group; then **Jerry Birchfield**, **Jim Lowry** and **John Dawkins** will be moved. This should be about the middle of September.

The Industrial Development Division has expanded into five additional offices in the Baker Building which will accommodate seven staff members and a conference/classroom facility.

Overhead Projector Use

Staff members desiring assistance in designing, preparing and producing transparencies for overhead projectors are reminded that the Publications Services office can be of help. Call Jim Donovan, 3405.

EDA Renews IDD's Contract

IDD's Industrial Services Branch has received a \$100,000 grant from the U.S. Economic Development Administration (EDA) to continue its management and technical assistance to business and industry in economically depressed areas of Georgia for another year. **Hardy Taylor** is project director.

New IDD Training Branch

It has recently been determined that additional emphasis should be given to IDD's training function. Accordingly, responsibility for training and education has been assigned to Bob Collier, who will establish an Education and Training Branch which becomes operational concurrently with the EES reorganization taking place in September. (The EES reorganization will be fully reported on in the October *Station News*.)

The training function will be emphasized by developing an aggressive marketing program for education and training proposals and initiating appropriate and continuing interactions between education and training activities of IDD and other elements of the Station. IDD training activities will contribute directly to accomplishment of Station programs and goals.

The Education and Training Branch is moving into a remodeled suite of offices and classroom in 340 Baker Building.

Mason Tours Europe

Bob Mason, EMTD, spent a month in Europe which started in Les Arcs, France at a NATO conference on technology transfer. His family joined him at this new Alps resort town, then they went to Florence, Italy to tour the museums. Next stop was Venice, which Bob said was very beautiful, but tragically is sinking. It was also very crowded with European tourists. The Masons then drove to Vienna, Austria where it took a couple of days to get used to the complicated street system. From there they went to Salzburg and to the Grossglockner, the highest point in Austria. They returned to Switzerland, spending the night in Lauterbrunnen and visiting Trummelbach Falls which are water falls inside caves.

Earl and Burrelle Meeks, with their two sons, Leon and Blair, visited Tortola, British Virgin Islands, for two weeks, where the pirate ships in the days of old sailed the gateway to the Virgins and the Caribbean. Away from it all — no plush, no neons, just beach and mountains. Earl's comment: "Tough jogging on mountains."

New Projects

Food and Drug Administration to RD (**H.A. Ecker**) for development and presentation of training seminar on non-ionizing radiation protection — NASA to STD (**H.L. Bassett**) for wildlife resources antenna concept study — National Commission on Productivity and Work Quality to P/TAG (**J.L. Birchfield**) for report on symposium — Medical College of Georgia to PSD (**J.L. Brown**) for Scanning Electron Microscopy and X-ray microanalysis of dental materials — Martin Marietta Corp. to EMTD (**S.H. Bomar**) for central receiver solar thermal power system — NASA to RD (**C.E. Ryan**) for study of the application of near-field measurements — Rome Air Development Center to RD (**C.E. Ryan**) for RADC post-doctoral program — Robertshaw Controls Co. to P/TAG (**J. Lowry**) for study on gas fired space heaters — Department of Agriculture to STD (**J.B. Langley**) and to EMTD (**J.M. Akridge**) for design of collectors and instruments for solar drying of crops — General Dynamics to SSD (**S.T. Alford**) for antenna patterns through missile and pod radomes — Tech-Air to P/TAG (**J.A. Knight**) for waste converter evaluation —

William K. Parks, a recent graduate of Stanford University, joined the Sensor Systems Division as an Assistant Research Engineer in August.

Christi Jackson is the new secretary in IDD's Special Projects Branch, replacing **Debbie Black**, who resigned.

C.E. Summers, who has been a co-op student in the Sensor Systems Division since 1972, joined the Systems Technology Branch of SSD as an Assistant Research Engineer.

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J. A. Donovan, Editor	3405
Bonnie Wettlauffer, Ass't Ed.	3405
Betty Yarborough, Assoc. Ed.	3445
Betty Jaffe, Assoc. Ed.	3430
Ann Mintz, Assoc. Ed.	3516
M. A. Deadmore, Assoc. Ed.	3872
Albert H. Becker, Reproduction	3570

IDD News

Cassell Receives Award

Bob Cassell, IDD, was director of the Advanced Symposium on "Environmental and Economic Impact Studies" held on the University of Oklahoma campus, August 11-13, in conjunction with the American Industrial Development Council's (AIDC) 14th Annual Industrial Development Institute. **Don Lodge**, IDD, was one of the 21 symposium attendees.

At the close of the symposium, AIDC presented Cassell with a plaque according him "Special Recognition for Dedicated Service to Education in Industrial Development." The award cited his major role in the Council's educational endeavors since 1963, including the following: charter member of AIDC's Education Committee; chairman of the Institute's Thesis Committee, 1964-1970; member of AIDC's Regents for Educational Programs, 1965-1969; director of the Institute's Advanced Symposium Program, 1971-present; initiator and director of the Georgia Tech Basic Industrial Development Course, 1968-present; and past president of both AIDC and SIDC.

Wayne Hodges, IDD, was enrolled in the first-year program of the five-day Industrial Development Institute. Total participants, including first, second, third-year and advanced students, were approximately 250 persons.

Dr. H.E. Hoelscher of the University of Pittsburgh's College of Engineering, formerly president of the Asian Institute of Technology in Bangkok, Thailand, presented an analysis and comparison of industrialization in southern India and Pakistan to IDD staff members and other interested members of the Georgia Tech community August 13. The seminar was part of IDD's institutional grant program funded by the U.S. Agency for International Development (AID).

Overseas activity under this program during the month of September include work in the Philippines and Korea. **Ben James** will survey selected Philippine organizations and report on their entrepreneurship training programs. **Ross Hammond**

will review Georgia Tech's joint activities with the University of the Philippines' Institute for Small-Scale Industries, make plans for a small industry conference to be held in Manila in May 1976, and meet with AID and government officials involved in small industry programs.

In Korea, **Harvey Diamond** will study the export potentials of selected small-scale industries and produce a feasibility report. **Edwina Udunka** will participate in audiovisual documentation of the small industry assistance projects at Soong Jun University.

In addition, IDD will assist Soong Jun University in implementation of its small industry grant program, also funded by AID. **Ross Hammond** will conduct an annual review of the program and provide general assistance. **Larry Edens** will perform technical assistance to small industries in the Seoul and Taejon areas and provide industrial extension training to counterpart personnel.

EES People on the Move

J.M. Akridge and **S.H. Bomar**, EMTD, were in Los Angeles July 29-Aug. 1 for International Solar Energy Congress and Exposition . . . **E.K. Reedy**, S&TD, attended Fire Support Methodology Workshop at the Naval Post Graduate School in Monterey Aug. 3-9 . . . **H. Diamond**, IDD, was in Korea Aug. 4-Oct. 15 to study the export potentials of selected industries . . . **C.A. Murphy**, EMTD, traveled to Wyandotte, MI and Pittsburgh, PA to visit companies to discuss systems using molten salt heat transfer fluids Aug. 5-7 . . . **J.L. Brown** and **J.W. Johnson**, AIL, were in Las Vegas Aug. 11-15 for meeting of Electron Microscopy Society and Electron Probe Analysis Society . . . **E.C. Burdette**, S&TD, gave a paper at the Cryobiology Meeting in Washington Aug. 12-13 . . . **R.S. Ingols**, EMTD, attended American Chemical Society and American Institute of Chemists meetings in Chicago Aug. 24-31 . . . **J.W. Dees**, S&TD, was in Denver Aug. 25-29 for Space Shuttle conference . . . **L.R. Edens**, IDD, will provide technical assistance at Soong Jun University in Korea Aug. 29-Sept. 22 . . . **B.E. James**, IDD, will be in the Philippines and Korea Sept. 5-Oct. 12 for technical assistance . . .

Longs Tour Arctic

Dr. and Mrs. Long spent two weeks in July and August touring Norway and the waters north of there, then toured Denmark for a week. Their cruise ship crossed the Arctic Circle July 22 and went farther north than any other cruise ship has ever gone. In fact, they were only 500 miles from the North Pole during their five days in the Arctic.

"We spent much of the time in the fiords of Norway. It was very rare that we were out far enough so that we couldn't see any scenery. When we were close to the northern-most point near the Arctic Circle, the temperature on deck was about freezing. We could see ice floes, seal, icebergs and glaciers. The glaciers have a magnificent beauty. And it was very delightful. We went for days without darkness, which is rather exhilarating; we could always see part of the sun. But you don't realize it's bed time.

"There were about 500 passengers, predominately English-speaking. There wasn't much of a language problem in Scandinavia because English is the second language for most Scandinavians. Even technical reports are published in English, which is also the official language of the Norwegian Navy.

"Our ship, the Royal Viking Sea, is the first and currently only passenger ship utilizing satellite navigation — U.S. Department of Defense satellites, to be exact. It is a much more accurate navigational system than the older conventional electronic ones. The ship has two radars and a special computer for calculating the ship's position and for determining the probable collision points with other ships.

"We found prices to be high. Food and hotel costs were about 50 percent higher than in the U.S.

"After the cruise, we went on our own and visited the various beautiful islands of Denmark. The country's population is about the same as Georgia's and Copenhagen is about the size of Atlanta. Popular foods include pastries, cheese and milk and open-faced sandwiches covered with seafood, eggs or cheese."

Turn off electric equipment not in use

PERSONALITY



Hardy Taylor

A Gentleman Farmer

Hardy S. Taylor has returned to the country — primarily to his farm in North Fulton County. The Taylors have been building their home their for the past two years and are about ready to move in. They will be raising vegetables, cattle, horses, ducks and many rabbits.

"I like to do carpentry work, so I'm tinkering on some of the extras and building fences. And we all like the outdoors, so this has been real good for us. Our farm is a family project; Hardy, Jr., raises and trains polo ponies and is generally in charge of the farm. Mrs. Taylor gardens and maintains the home base. The cows and garden are hers. We all work together on various farm projects. But our cat, Mister Bianca, really reigns supreme, even over Fred the St. Bernard."

Getting the farm ready has not left Hardy with much time for his other hobbies, deep-sea fishing and horseback riding. "We have a large lake on the farm with a lot of fish, I guess; it seems I never have enough time to go fishing." Hardy and his family also like to go to Panama City for deep-sea fishing. "We would like to go every couple of months, but it's usually only when I get a chance. Our usual catch consists of king fish along with red snapper and blue fish.

"My wife's name is Elizabeth, so I'm frequently introduced by the name of the current husband of the more famous Elizabeth Taylor. She is a lot prettier, though, and a heck of a lot smarter. Our daughter Steph-

anie is staying at our house in Marietta until it's sold, then she and her German shepherd Rinny will join us at the farm. She is employed by Sears in the display department. Zachary is a senior majoring in accounting at Georgia State. Jeffrey is a senior at Milton High School and manager of the football team this year."

Hardy came to EES and IDD in 1966 after having retired as a Commander in the Naval Supply Corps and serving as treasurer and general manager of Gladwin Industries in Atlanta. During his years with the Navy, Hardy served as a Supply and Fiscal Officer/Comptroller, which, according to Hardy, is the business end of the Navy. During World War II, he served in the Pacific Third Fleet on various ships. He was also stationed as Supply and Fiscal Officer/Comptroller at several Naval Air Stations in the U.S. and the Naval Aviation Supply Office in Philadelphia. He was working on a master's degree in business administration at the University of Nebraska when he was ordered to sea on the aircraft carrier USS Franklin D. Roosevelt (CVA62) during the Korean War. In 1957, Hardy went to Malta, G.C. to plan for a NATO Maritime air base at Catania, Sicily. He negotiated at the highest governmental levels in Sicily and in Rome in arriving at agreements and establishing procedural methods for operation of the base. During his four-year tour there, he was the Supply and Fiscal Officer/Comptroller for the NATO base.

"I decided to stay in the Navy because I enjoyed the work and the responsibility I was given at a very early age. It was very similar to the business environment and the work I had been trained for. Of course, I didn't realize it then, but it was also an excellent background for what I'm doing here at IDD."

Hardy is the Assistant Head of the Industrial Services Branch and Project Director of the Economic Development Administration's management and technical assistance program which has the objectives of stimulating the expansion and diversification of existing industry, supporting the formation of new, economically sound enterprises and creating additional jobs or stabilizing current employment. In accomplish-

ing this, he directs a team of highly qualified personnel.

"I have always had a real interest in working with small businesses and assisting with their problems, and IDD gave me an opportunity to do this. Although I usually concentrate more in the management and financial areas, I also get involved in all related problems. We have worked with several companies that we know we have helped survive. But many times it is difficult to directly relate the benefits derived by the company to the assistance provided; however, we do receive many flattering letters of appreciation for our assistance. I guess you could say that our greatest reward is to see that our recommendations have been implemented and show results. Unfortunately, some cases are completely hopeless, and the owner is not aware of the seriousness of the situation. In these cases, about all we can do is to present the facts to him so that he can take action to cut his losses.

"Management and technical assistance to Georgia industry is our basic program. We work closely with the Economic Development Administration (EDA), the Business and Industry Loan Program of the Farmers Home Administration, the Small Business Administration, and the Office of Minority Business Enterprise. We receive sponsored work from these agencies to help defray the cost of the program. EDA provides funding for assistance to companies in 90 designated counties in the state, and we work as an advisor to the Farmers Home Administration by evaluating their business loan applications to determine whether they are feasible ventures. The type of work we do is very similar under all programs.

"I enjoy assisting in the development of some really viable new ventures; however, working with existing companies is also interesting. Each one is different, and every one has its own special problems, which are very challenging to work on. Although many have similar problems, it is not repetitious work."

Hardy said Columbus, Georgia, and Birmingham, Alabama, were his earliest homes, and he graduated from the University of Alabama in 1942 with a degree in business administration.