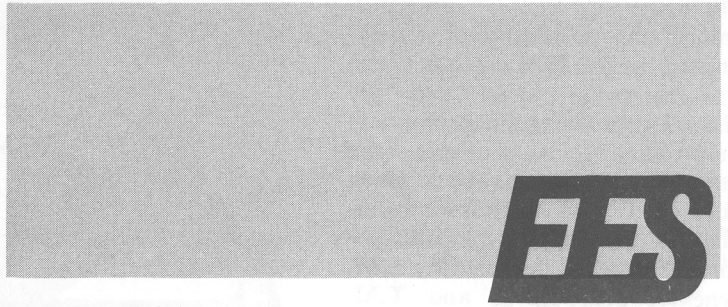


STATION NEWS



ENGINEERING EXPERIMENT STATION • GEORGIA TECH

VOLUME 3 NUMBER 8

SEPTEMBER, 1974

MR. PHOTO LAB

A long-time EES employee will be retiring October 29. Photo Lab Head Ed Garrett will leave after 28 years supervising the Lab and overseeing its growth into a service operation for not only the EES, but also for Tech, students and for outside users such as Georgia State. When the Lab was started in December, 1946, there was one photographer and Ed. M. C. "Moe" Hedin, who will replace Ed, joined the staff shortly afterwards. At the time, the Lab was located in an old house on a cobblestone street at the present building's site. When another house next door was vacated, the Lab expanded into it. They were home there for about 20 years. The Lab then spent three years in the EE building awaiting the present building which was completed six years ago. Ed says he figures he has helped put about 100 students through school by giving them part-time jobs. Most of the regular staff of about 20 has been in the Lab for some 15-20 years.

"Service is the only thing the Photo Lab can exist for. That's the biggest thing we offer, and the basis for our whole operation. Money may be the root, but service is what we provide. If the Photo Lab can't contribute to the overall program, it is fooling itself. I think we do contribute."

In thinking back over his many years, he said their biggest single contribution probably occurred when the Lab worked on Christmas Day to print a proposal. It was awarded and eventually covered the costs of three buildings. Ed also noted he has probably had more bosses here than anyone else he knows of.



Ed Garrett

There have been six EES Directors and five Tech presidents. He himself has had three title changes, but the job has remained the same.

The quiet, soft-spoken man said his years at Tech have been good ones. The EES has more people now than when he started and is doing more complex research. He also thinks EES growth is dependent to some extent upon Tech's and as for the Photo Lab's future, Ed sees it becoming the campus visual communications center.

When Ed came to Atlanta to head the Lab, he had worked five years for the Army Corps of Engineers as a photographer. Now, he says, he does very little photography. It's a young man's game," he commented. His last photo was of the Tech 'Wreck' with a new coat of paint.

What will occupy Ed's time when he retires? Well, there are his hobbies of fishing and bowling, and keeping up with Tech football.

The Photo Lab has done the Tech football films since 1955 and Ed believes he has missed no more than five or six games. He thinks Tech football prospects will improve in the next two or three years because of increased fan

enthusiasm. But he also believes that new recruiting goals may have to be formed because of the Rodger's style. He feels, however, that Tech's football problems have not been any worse than other school's. Tech should definitely get back into the South East Conference. Ed is sure membership will help sports attendance and support for the minor sports.

He said that during his years of filming the games, he has had the opportunity to meet several celebrities, such as Bob Hope, and former coach Dodd who is "one of the nicest people in the world. He is a very quiet man who wasn't too enthused about all the traveling he could have done as coach."

After retirement, Ed will be working at Stone Mountain in the visitor activities program. He may also do some of their personnel guidance; the park employs about 600 students in the summer and 200 in the winter. Stone Mountain is getting more new facilities and is in the process of buying activities instead of leasing them as is done now.

Ed and his schoolteacher wife Libby may also do some traveling to visit members of their family. Their daughter Donna and grandchild live in Jesup and son Stephen and his two children live in the Atlanta area. Ed also has relatives in his native Arkansas as well as in Buffalo, NY and Williamsburg, VA.

Remote Sensing for River Navigation

A team of our radar system experts recently completed a study for the Georgia Department of Transportation (GDOT) to determine if an electronic sensor could be developed to warn of an impending collision between a ship and a bridge.

The study was undertaken in the hope that such a system could

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diminish the possibility of a collision such as the 1972 crash between an ocean-going vessel and the Sidney Lanier Bridge in Brunswick. When funding is available, the Lanier lift bridge has been given priority by GDOT officials for the installation of the prototype collision-avoidance system designed by **E.M. Greneker, J.L. Eaves and T.M. Miller** of the Radar Division. If successful, the system could be installed on the remaining nine draw and lift bridges in Georgia.

INTERNATIONAL DEVELOPMENT ACTIVITIES

Kong Chu, Industrial Management, was in Ecuador July 3-28 doing research for an analysis of financial incentives available for small and medium-size industries in Ecuador as part of the Agency for International Development 211 (d) grant project.

George Morelos, IDD, was in Tubarao, Brazil the first week in July assisting with an audio-visual documentary of the flood reconstruction and economic development efforts of FESSC, a local educational institution which is the Brazilian 211 (d) counterpart. Morelos and **Phil Potts**, IDD, will be in Tubarao August 16-September 19 under an AID small industry grant. They will provide management and technical assistance to eight small local industries and initiate studies of the feasibility of industrial utilization of two abundant local wastes—fly ash and crab shells.

Richard Johnston and **Martha Ann Deadmore**, IDD, were in Ecuador August 18-24 and Brazil August 25-31 working with CENDES (an industrial development center in Ecuador) and FESSC. Johnston consulted with them on development data collection and cataloging, and Deadmore collected material on counterpart activities for the new international newsletter.

**68° is better for you
and your country**



This portable building was placed on top of the Baker Building as part of a transmitting site for a Radar Div. antenna range. It will be linked by remote control cable with the receiving site on top of the Physics Building.

Applied Sciences

Walter Hicklin has joined the Analytical Instrumentation Lab.

John Brown, James Hubbard and James Johnson taught a graduate level course in analytical instrumentation Spring Quarter.

Jim Hubbard, AIL, was an invited participant in a Skylab Processing Experiment Review in Huntsville, AL. It brought together the principal investigators of Skylab for discussion on the results and problems encountered on the various Skylab experiments.

Jim Hubbard was also 73-74 Southeast Electron Microscopy Society Chairman and is now a member of the Executive Council and Local Arrangements Chairman for the 74-75 meeting to be held in Atlanta.

John Brown, AIL, has completed a chapter on electron microscopy, "The Scanning Electron Microscope in Industry" for the book **Scanning Electron Microscopy** by Dr. W. R. Bottoms of Princeton. Brown has also been asked to write a chapter on "Preparation of Specimens for Electron Microscopic Examination" for the Soil Science Society soil mineralogy textbook **Minerals and Their Roles in the Soil Environment**.

Augusta Area Office Expands

The Augusta Area Office of the Industrial Extension Service (IES) has expanded its staff.

Kay P. De Hart has come to Augusta from the Coastal Plain Area Planning and Development Commission in Valdosta, where she was Director of Economic and Industrial Development for the past two years. She will be associated with R. Lynnard Tessner and the Director of the Augusta Area Office in providing industrial and community development services to a 23-county area.

A graduate of Valdosta State College with a B.A. in English and minors in history and political science, De Hart was employed by the *Valdosta Daily Times* prior to joining the Coastal Plain Area Planning and Development Commission.

Southeast Area Office Also Expands

The Southeast Georgia Area Office of the (IES) has expanded its staff.

Edwin L. Lewis returns to Douglas from the Talon Division of Textron Corp. in North Carolina, where he was Plant Industrial Engineer. He will assist Sherman L. Dudley, Director of the Southeast Georgia Area Office, in providing industrial and community development services to a 27-county area.

A native of Douglas and a graduate of Auburn University with a B.S. in Industrial Engineering, Lewis was a co-op student with NASA, Kennedy Space Center, FL.

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Vol. 3 No. 8 September, 1974

Published monthly for employees of the Engineering Experiment Station, Georgia Institute of Technology, Atlanta, Georgia 30332.

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EES People on the Move

C.L. Espy, S&TD, surveyed FAA facilities in Hampton, GA. July 22-26. . . **R.M. Mason**, NBSD, was in Oak Ridge for the Wind Energy Sem. July 29-30 and joined **G.R. Harrison**, ASD, for NSF proposal panel review in Washington Aug. 5-6. . . **M.V. Davis**, RO, attended the paper review and program committee meeting of the Am. Nuclear Soc. July 29-31 in Washington. . . **J.H. Murphy** and **S.H. Bomar**, S&TD, were in Akron Aug. 5-6 to confer on solar boiler design. . . **R.S. Kirkland** and **R.J. Johnson**, RO, were in Charlottesville Aug. 8-14 for a conf. on research, test and training reactors; Kirkland presented a paper and then attended research reactor supervisors conf. in Washington. . . **R.B. Cassell**, IDD, went to Norman, OK Aug. 12-17 to administer an advanced seminar. . . **J.E. Husted**, TAG, was in Paris, TN vicinity to secure project information Aug. 15-18, then in Lawton, OK area Aug. 19-20, and to Providence, RI Aug. 24-29. . . **M.A. Deadmore**, **P.W. Potts** and **G.A. Morelos**, IDD, each spent Aug. 16-Sept. 14 in Ecuador and Brazil. Deadmore gathered information on counterpart activities, Potts and Morelos provided management and technical assistance to counterparts and small industries. . .

R.A. Young, **P.E. Mackie** and **K. Sudarsanan**, ASD, went to Penn State Aug. 18-23 for the Am. Crystallography meeting where Young chaired a session and gave the banquet address and Sudarsanan gave papers. . . **T.P. Lang**, NBSD, **C.T. Brown**, HTMD, and **M.V. Davis**, RO, were in Ft. Collins, CO for the International Solar Energy Conf. Aug. 20-23. . . **D.L. Allen**, ORA, attended IDD's area field office meeting at Jekyll Island Aug. 22-24. . . **J.M. Spurlock**, ASD, visited NSF and Dept. of Interior in Washington Aug. 23-28. . . **J.D. Walton** and **S.H. Bomar**, HTMD, conducted preliminary boiler studies at the French Solar Furnace Aug. 24-Sept. 6. . . **N.C. Wall**, IDD, carried out consultant services in Bogota Aug. 26-Sept. 11. . . **W.T. Studstill**, IDD,

provided technical assistance in Seoul Sept. 6-Oct. 15. . . **R.W. Hammond**, IDD, left Sept. 14 to return Oct. 15 after attending an OECD meeting in Paris and working with counterpart institutions in Seoul, Bangkok and Manila. . . **R.S. Ingols**, NBSD, was in Boston Sept. 18-20 for a workshop on ozone applications. . . **W.G. Dodson**, IDD, went to Denver Oct. 26-Nov. 7 for the Am. Institute of Planners Conf.

Pre-employment Physical Examinations

The Institute has experienced considerable difficulty administering the State Pre-employment Physical Examination Program. The following procedure applies to all categories of employment.

A pre-employment physical examination must be completed for each person employed forty-five days or more as specified in the regulations of the State Personnel Board. Employment will not be continued beyond forty-five days following date of employment unless evidence of a completed physical examination has been received by the Personnel Office.

At the end of 30 days, a reminder will be sent to the employee and his department head or school director when evidence of completion of the physical examination has not been received by the Personnel Office. A copy of the reminder will also be sent to the Vice



This is the site of the 8,000 sq. ft. building in Area 2 to house the Technology Applications Group, primarily the Waste Utilization Lab. The two-story structure is scheduled for completion the end of the year.

President for Academic Affairs in each case involving a member of the faculty.

At the end of 45 days a notice will be sent to the department head or school director requiring immediate suspension or termination should evidence of completion not yet be received. A copy of this notice will again be sent to the Vice President for Academic Affairs in each case involving a member of the faculty.

Energy economy is everybody's business

Where's Everyone Going?

Manager of Services **Tom Jones** reports several shifting offices around the Station. **Fred Cain's** Radar group is moving into first floor converted labs Baker from Electronics. Space in the Photo Lab is being converted into storage areas to provide needed warehousing facilities. A parking area behind Electronics was enclosed to provide a working area for installation of electronic equipment on vehicles.

Georgia Tech Research Institute

The Georgia Tech Research Institute (GTRI) is a corporate body organized and operated to assist the Georgia Tech research program generally and to implement the sponsored support of Georgia Tech staff and facilities by industries, government agencies, and others. It was created as a non-profit organization incorporated under the laws of the State of Georgia and is closely affiliated with Georgia Tech through the EES. The Research Institute's Board of Trustees is composed of four members of the Georgia Tech faculty, four from Georgia Tech alumni, and four from industry at large.

Milton W. Bennett is Acting Director, Office of Research Administration and General Manager, GTRI. **Robley H. Tatum** is Assistant to the President, GTRI and **Dwight L. Allen** is Senior Grants and Contracts Officer.

GTRI offices are on the third floor of the Tech Administration Building.

NEW FACES AT IDD

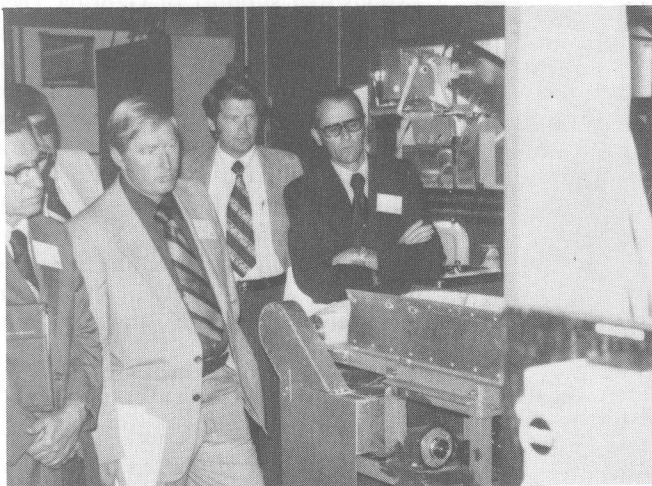
Kay Auciello has joined the staff of IDD's International Development Data Center as an assistant research scientist.

Donald E. Lodge has rejoined IDD's Special Projects Branch as a senior research scientist after several years away from the fold (nest?).

Expansion of field office activities has resulted in the addition of **Kay De Hart** as a research scientist at the Augusta Area office and **Ed Lewis** as an assistant research engineer at the Southeast Georgia Area office in Douglas.

Pacemaker Research Continues

The Electromagnetic Compatibility Lab began their tenth series of cardiac pacemaker electromagnetic interference evaluations on 12 August. These evaluations consist of analyzing the pacemaker's functioning during exposure to electromagnetic environments that patients can encounter in their normal day-to-day activity. Researchers are **J.C. Toler**, **F.R. Williamson** and **B.M. Jenkins**. Medical advisor is Dr. **W.H. Fleming**, Chief of Thoracic Surgery and Assistant Professor of Surgery at Emory University.



Members of the Poultry Federation looking at the automatic transfer device. Left to right are Herb Burrows, TAG; Wayne Austin, Gold Kist; Abit Massey, Ga. Poultry Federation, and Bill Falls, Wayne Poultry.

Dave Huber, NBSD, is leaving to further his education at the Medical School of GA. His co-workers will miss him and wish him the best of luck.

GTRI reports that **Mary Haack** has accepted a promotion in Textile Engineering. **Dwight Allen** sends his thanks to the secretarial team for picking up the slack, especially to **Gay Martorell** who has had to put up with not only **Al Camp** and **Ed Newkirk**, but also with **Dwight**.

Poultry Federation Meets

Members of the Georgia Poultry Federation met with EES staff members Aug. 22 to review the first year's progress on several projects of the \$175,000 contract. The contract has been extended for another year at a \$125,000 level.

During the meeting, **Dave Clifton**, IDD, summarized the findings of a market survey he and **Phil Potts** conducted on egg buying habits. **Jim Knight** and **Herb Burrows**, TAG, reported on their work of utilizing chicken wastes. The group then visited the automated transfer device in Area 2 under the direction of **Lyn Stapleton, SSD**.



Poultry Federation members and EES staff listen to a report. Front row is George Black, Black & Meek Milling; Jim Knight, TAG; Herb Burrows, TAG. Second row is Wayne Austin, Gold Kist; Robert Dixon, Ga. Power; Chet Austin, Tip Top Poultry. Back row is R.C. Johnson, S&TD and Abit Massey, Ga. Poultry Federation.

Expense Code

As our society becomes more and more number-oriented, we thought it would be helpful if we explained the expense funds numbering system code. Station expenses are coded according to the project or administrative unit incurring the expense. They are broken down this way:

- A - Georgia Tech Research Institute
- B - Other Sponsored Research
- C - Other Georgia Tech Departments
- E - Station Supported Research
- G - Administrative Expense
- H - Department/Division Expense
- I - Service Groups
- J - General Expense
- K - Reserve for Contingencies and for Working Capital
- V - Vacation

New Projects

Canex Placer, Ltd. to TAG (**M.F. Munoz**) for concentration of muscovite fines—**Richmond County Development Authority** to IDD (**B.E. James**) for program of economic development and technical assistance—**GA Department of Agriculture** to TAG (**C.H. Bonham**) for poultry processing and waste utilization research—**Onyx Corp.** to IDD (**E.A. Bethea**) for management and technical assistance—