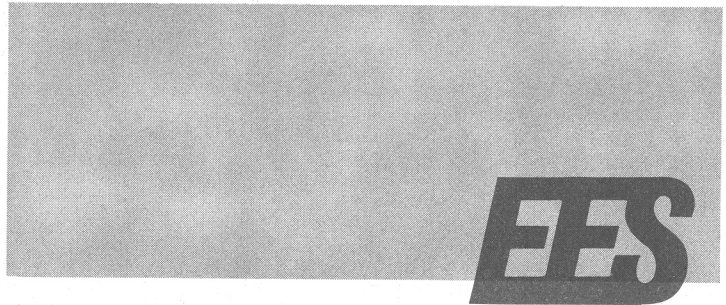


# STATION NEWS



ENGINEERING EXPERIMENT STATION • GEORGIA TECH

VOLUME 2 NUMBER 6

JULY, 1973

## NEW NAME FOR EES BUILDING

### EES BUILDING NAMED

The Board of Regents has recently approved naming the new EES building the HARRY L. BAKER, JR. BUILDING. Mr. Baker served as the first president of the Georgia Tech Research Institute from 1946 until his death in January of this year. He also held

various other appointments, including assistant director of EES, assistant controller and director of the Office of Research Administration.

The name will be placed on the front of the building in the northwest section at the second floor level sometime in August, according to Technical Service Manager Tom Jones.

### NEW BUILDING PLANNED

A two-story pilot plant building should be ready for EES use early next spring, according to Howard Dean. The facility will give EES increased capabilities for doing pilot-scale mechanical and chemical experimental work, with processes operating to simulate the expected industrial or commercial operations. Designed by architect Carlton Fountain, the main level will contain 8000 square feet; the mezzanine will be 5000 square feet and house some offices and labs. A test pad for setting up large-scale outdoor type pilot operations will run the length of the outside of the building. Located behind the warehouse in Area 2, the prefabricated modular building's space can be doubled in the future as the need arises.

Some labs which have run out of space will be moved into the new building, designed so that projects needing a facility for assembling and testing large systems, such as automation machinery, will be able to utilize it. Expected first tenants include

the Waste Utilization Lab personnel who will have greater space and accessibility for their pilot waste converter.

### Dental Coverage

The Dental Coverage is to be separate from the University System Health and Life Insurance Plan, effective July 1, 1973.

Arrangements have been made to continue the same Dental Program as presently in effect so there will be no lapse of this coverage.

Under our Dental Program for the past 15 months at Georgia Institute of Technology, premiums paid amounted to \$57,091 and claims paid during this same period amounted to \$129,820 for a claims ratio under our Dental Coverage of 227%.

Therefore, effective July 1, 1973, rates for the dental program have been adjusted upward. The new monthly contribution by you for this coverage will be:

Single Employee \$3.18  
Employee with Dependents \$9.12

### THE CONSTANT CHANGE

Someone once said something about the only constant thing is change. And EES is doing some physical changing. According to Manager of Services Tom Jones, many renovations are taking place and due for completion by August 15.

In the New EES Building there are several changes. The Biomedical Laboratory is being moved to the basement, and its space will be assigned to two new PSD scientists enabling them to work near the clean room. Previously unusable storage areas in the basement are being made into lab space, one for the biomedical personnel and one for future expansion.

Up to the third floor. The offices of Dr. G. R. Harrison and Betty Jaffe will be shifted to space next door, and Dr. B. R. Livesay's labs are being consolidated. One of the labs will be turned into a research library for IDD's International Development branch, whose staff will move from the second floor into the former ASD offices. This will serve to consolidate the IDD operations.

Dr. G. W. Leddicotte and several members of his NBSD staff will take the empty International Development offices on the second floor.

In the Electronics Research Building, several large laboratories on all three floors are being made into offices and smaller labs. This is necessary to house additional staff members hired due to the increased S&T research activities. Between 15 and 20 offices will be created, said Tom.

The Waste Utilization Lab will move soon from the New EES building into its own in Area 2, behind the warehouse. An 8000 square foot steel and tin butler building will be constructed.

## CLASSIFIED POSITIONS

When classified positions in the Engineering Experiment Station become available, the appropriate supervisor should complete EES Form 136 "Personnel Employment Request" and forward to the Reports & Procedures Office via the appropriate Department Manager.

A copy of the Employment Request will then be forwarded to the Institute's Personnel Office to be included in the weekly campus-wide posting. The Reports & Procedures Office will also post these openings in the designated posting areas as they become available.

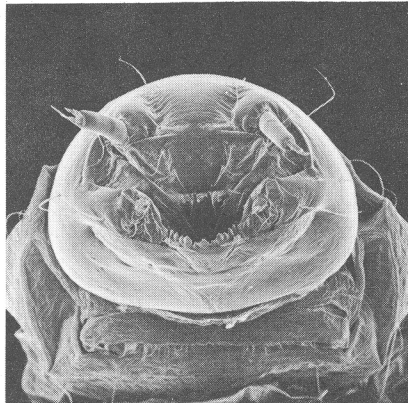
Interviewers should complete EES Form 138 "Interview and Reference Sheet" for each applicant interviewed and forward to the Reports and Procedures Office.

### Posting of Available Classified Positions

Personnel bulletins listing all available classified positions on campus (including EES) will be posted each Monday on Bulletin Boards in the EES locations listed below. A separate listing of classified positions in EES will be posted as openings become available. Qualified personnel interested in any available EES position listed should make application in person through the Reports & Procedures Office.

<u>Building</u>	<u>Location</u>
Photo Lab	Bulletin Board in hallway
Hinman Research	Bulletin Board in hallway next to Room 304
New EES (Baker Building)	Bulletin Board in hallway next to Room 113
Nuclear Research Center	Bulletin Board in Lobby next to Receptionist desk
Systems & Techniques	Bulletin Board in hallway behind Receptionist desk

**Christy Brown** has joined the secretarial staff of the Radar Division. **Bonnie Perkins** is leaving Radar on 1 July to begin work in the Public Relations Office.



"Look, Dad, 37% fewer cavities!"

See page 4 for complete description

NBSD's **T.F. Craft** and **R.S. Ingols** are working under a contract with the Air Force Weapons Laboratory at Kirtland Air Force Base, New Mexico for a survey of wastewater monitoring instrumentation. The Laboratory's Environics Branch is the lead organization within the Air Force for its research and development efforts in environmental pollution control.

Drs. Craft and Ingols are searching the market for suitable equipment to measure more than thirty different parameters of wastewater. The study involves the collection of information from instrument users and the actual testing of some more recently developed devices.

The Industrial Development Division hosted the second in a series of International Development seminars on Friday, June 29. Speaker on "International Action for Industrial Development" was **Aron Jose Aizenstat**, Director of the New York Office of the United Nations Industrial Development Organization. The program is funded by the Agency for International Development.

Congratulations to **Ina Newton** and **Hank Jenkins**, Communications Division, and **Lee Edwards**, Radar Division, all of whom ran well in the Dean Griffin 3-mile cross-country race during SAC week. Ina ran the 3 miles in 24.55 minutes to tie for first place in the women's division. Among the men, Lee and Hank placed 4th and 5th in their age group.

## EES PEOPLE ON THE MOVE

**H. S. Taylor**, IDD, attended the EDA University Center Conf. in Washington June 3-5; **HTMD's N.E. Poulos** attended the Polymer Conf. on fire prevention and control in Salt Lake City June 3-9; Attendees at the Boulder, Co. Microwave Symposium June 4-10 were **F.L. Cain**, **J.W. Dees**, **H.A. Ecker** and **R.C. Johnson** of S&T and **G.R. Harrison** of ASD; **R.K. Hart** and **W.H. Hicklin** of ASD attended the Frequency Control Symposium at Cherry Hill, N.J. June 12-14; **J.D. Walton**, HTMD, visited the solar furnace facilities in White Sands, N.M., presented a briefing on fused silica and the solar furnace in Sunnyvale, Ca. and in Los Angeles June 12-15; ASD's **R.A. Young** chaired a memorial symposium at Brookhaven Labs in New York June 14-15 and joined **P.E. Mackie** at the Am. Crystallographic Assoc. meeting June 17-22; ORS Officer **R.L. Zimmerman** attended the annual meeting of the Health Physics Society in Miami June 16-24; **J.L. Carden**, S&T, gave a paper at the International Colloid Symposium at Ottawa, Canada June 18-22; ASD's **R.M. Mason** attended a NATO study institute in Evry, France, June 23-July 7; **T.F. Craft**, NBSD, was at the Gordon Research Conf. in New Hampshire June 28-July 9.

**Ina Newton** was named to the Dean's List with Distinction at Georgia State University Spring Quarter. Ina is majoring in Business Education.

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## On the Presentation of Ideas

### Techniques of a Slide Presentation

The following is excerpted from instructions prepared by the Kodak Company.

#### Review the Material

Be thoroughly familiar with both the slides and your narration. Try to anticipate any questions that might arise. The reward for this reviewing is greater self-confidence and poise for you and, for your audience, a more effective presentation.

When using round slide trays, keep a list of slide locations. If a question arises regarding any particular slide, you can find it quickly and project it during discussion.

#### Prepare your Audience

Tell your audience the topic of your presentation and relate its message to them by showing how they will benefit from it. Once convinced of the relevancy of your topic, the audience becomes more willing and more intent on listening to you.

Also inform your audience of the problem to be solved and the approach you will take. This alerts them to the points you will make. Also, tell them whether they will be expected to take a test, operate a piece of equipment, or in any way demonstrate an understanding of the information you present.

Keep your narration simple and to the point. Good narration ties the pictures together, puts the emphasis where you want it, and rounds out your story, while permitting the visuals to carry most of the communicative burden. Avoid saying "in this slide we see . . ." or "here we have a picture of . . ." Such phrases add nothing to your presentations.

If you are not using a sound synchronizer, control your own slide advance with a remote-control unit. Since you are most familiar with the show, you can best pace its delivery. It is most distracting to have a string of "next slide, please . . ." punctuating a presentation. Similarly, you may want to control the room lighting by remote control.

Finally, by following several simple rules you may heighten the impact of your presentation:

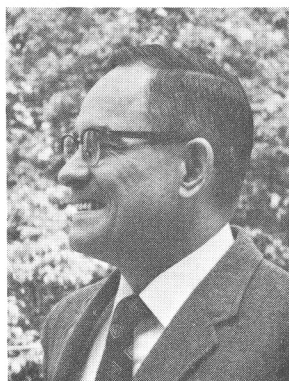
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## SERVICE AWARDS

Gold T Service Award recipients



Jim Parker



Ed Flynt.



Dave Keller

Three EES people received 25-year Gold T Service Awards at the recent faculty dinner. Recipients are Edward R. Flynt, Systems & Techniques; David S. Keller, Machine Shop, and James R. Parker, Supply Services

(1) Avoid reading your narration. Instead, speak to the audience in a conversational tone. This arouses interest and adds a personal warmth to your presentation.

(2) Be careful that the proper slide is being projected, so that your narration complements the slide, rather than detracts from it.

(3) Don't talk to the screen. Glancing at the screen to ascertain which slide is being projected is fine, but then face your audience and direct your message to them. You may place your lectern at an angle to the screen to help keep track of slide changes.

## BLACKS PURSUE DUAL DEGREE

Only one percent of the 40,000 engineers graduated in the U.S. in 1971 were black. That grim statistic will improve as a result of efforts like the Dual Degree Program carried on cooperatively by the Atlanta University Center (encompassing three black colleges) and Georgia Institute of Technology, and funded by the Olin Corporation Charitable Trust. After five years, students enrolled in the program (more than 15 percent are female) receive a bachelor's degree from their black liberal arts school and an engineering degree from Tech. A similar program, but in business, is being operated jointly by Xavier and Tulane Universities in New Orleans (Olin Magazine, 1973, No. 2).

## LABORATORY LIGHTS ARE FLICKERING

If the deepening mistrust of science and technology were to prevail, the result could extend beyond failure to solve our present crises to an inability in the future to deal with problems that we cannot now predict. According to M.I.T. President Jerome B. Wiesner (Technology Review, May), we should be aware that technology can contend with itself as well as with nature, that to abandon this source of man's strength is a senseless alternative to its development and use. ● But the Review's Washington Report notes that the R & D era of promise never quite arrived, that federal support programs, with their concern for the practical and short-term result, may bankrupt the basic research bank, that laboratory lights are flickering, and that Sen. William Saxbe may not be exaggerating too much when he says "the program this administration is pushing is appropriate for Herbert Hoover's day." ● Other reports in the M.I.T. journal analyze the impact of the federal budget on the institute's own programs, and observe how sociological and political considerations transcend technology in transportation planning.

## HEMEROCALLIS

Conrad Meaders, NBSD/ASD, entered the annual hemerocallis (day-lily) show at Rich's Friday, June 22, 1973. In Division 1, single blooms, he won nine blue ribbons, six red ribbons, and one yellow ribbon. In Division 2, single bloom scapes (stalks), he won three blue ribbons and two red ribbons on a total of six scapes. He won a ribbon on approximately 50 percent of the total number of entries.

## INSURANCE BENEFITS CHANGE

A new University System Health and Life Insurance plan became effective July 1. The System now pays the total cost of the employee's \$15,000 basic life insurance and all of the employee's health insurance cost. Additional, or supplemental, life insurance is paid by the employee at the rate of 47¢ for life and 3¢ for accidental death/dismemberment per thousand dollars of coverage. The maximum supplemental insurance is \$40,000, or \$55,000 when combined with the basic \$15,000. Dependent coverage is 47¢ per family unit which provides up to \$1,000 life insurance. The health insurance premium for dependents is \$20.36. All supplemental and dependent coverage is optional.

Dental insurance is now separate. However, new rates are in effect. The contribution for a single employee is \$3.18; an employee with dependents will pay \$9.12 per month.

At age 67, one-half of the combined basic and supplemental life insurance, or the basic alone (whichever is greater), may be continued with no change in the institutional participation.

If you have any questions concerning the new policy, call the Tech Insurance Office extension 4631. Booklets outlining the plan in detail will be issued when received from the printer.

**S. L. Robinette**, Communications Division, and Mrs. Robinette will leave Atlanta July 8 for a two-weeks' vacation in London and Edinburgh. Robbie will interrupt his vacation to attend the First International Conference on Crime Countermeasures at the University of Edinburgh and will present a paper entitled "Science and Technology: A Course for Criminal Justice Students." This is a result of work between Georgia State University School of Urban Life and Georgia Tech.

**Deanna Burch**, Sensor Systems, was Deanna Hnat before her marriage two weeks ago to George Burch.

New faces in the S&T Department: **Sam Piper**, Ga. Tech graduate, Assistant Research Scientist in the Radar Division; **Brian Hudson**, recent graduate of Southern Tech, Assistant Research Engineer in the Communications Division.

## PROGRESS REPORT ON THE GEORGIA TECH A.I.D. PROJECT

IDD has screened over a dozen prospective counterpart institutions in Asia and South America for the Georgia Tech Program of Employment Generation through Stimulation of Small-Scale Industry funded by the Agency for International Development. The institutions selected will work jointly with Georgia Tech in relating industrialization technology to their specific environments.

As a result of his visit to Colombia, Ecuador, Bolivia, and Brazil, **Nelson Wall** has recommended an industrial development center in Ecuador and an educational foundation in Brazil as possible counterparts. **Ross Hammond**, who went to Korea, Thailand, and Indonesia in May, has recommended a university in Korea and an industrial research and training agency of the Indonesian government.



In addition to attending many official functions and meeting with representatives of many organizations, Mr. Hammond found time to tour a few temples and palaces, universities, and ancient cities. He came back limbered up from sitting on the floor and with a newly acquired skill in eating with chopsticks, and reports that, contrary to a recent article in Time magazine, kisaeng parties are really rather sedate affairs. In Bangkok, Georgia Tech graduate Pakorn Adulbhan took him to dinner at a Thai restaurant which featured classical dancing.

The second seminar of the A.I.D. project was held on June 29 in the EES Auditorium. Mr. Arón José Aizenstat, Director of the New York Office, United Nations Industrial Development Organization, spoke on "International Action for Industrial Development."

## IDD MEN INVITED TO PRESENT PAPERS AT INTERNATIONAL SEMINARS

**Ross Hammond**, IDD Chief, will deliver a paper entitled "Technology Transfer Systems for Small Industries" at an international Seminar on the Role of Small-Scale Industries in Transfer of Technology at Schloss Hernstein, Austria (near Vienna), on July 5-8. Participants will include 15 from developing countries, 10 from developed nations, and experts from a few international organizations. Mr. Hammond is attending at the request of the U.S. Agency for International Development because of the Georgia Tech program in that field. Seminar sponsors are the Development Centre of the Organization for Economic Cooperation and Development (OECD) and the Government of Austria. Mr. Hammond also will confer with officials at the United Nations Industrial Development Organization (UNIDO) headquarters in Vienna and review the seminar with OECD personnel in Paris.

**Bill Ward**, IDD, will be at the East-West Center in Honolulu, Hawaii, July 9-21 attending a Seminar/Workshop on Research Framework for Regional Adaptive Technology Center Programs in a Non-Metropolitan University Setting, sponsored by the Technology and Development Institute there. In addition to presenting a paper entitled "An Overview of the Development and Current Operations of IDD and the Identification and Development of Economic and Industrial Development Opportunities," Mr. Ward will act as a resource person and advisor to four groups dealing with regional planning, technology development, entrepreneurship, and building of public policies and institutions. Other participants will be from universities in Korea, the Philippines, and Indonesia.

## 37% FEWER CAVITIES

The larva of a fly, species *chironomus*, presents a fearsome appearance when enlarged 400 X with the scanning electron microscope (SEM). This and other forms of aquatic life are being studied to ascertain the effect of the discharge of nuclear reactor coolant water in the lakes and streams of North Carolina.