

STATION NEWS

ENGINEERING EXPERIMENT STATION • GEORGIA TECH



VOLUME 2 NUMBER 2

MARCH, 1973

EES TO HELP GENERATE EMPLOYMENT

Georgia Tech recently signed a contract with the Agency for International Development (AID) for a five-year grant to strengthen and extend Tech's existing capability in employment generation and small-scale industry development with a sustained program involving less developed countries. The organizations with primary involvement will be the Industrial Development Division of EES, the School of Industrial and Systems Engineering, the College of Industrial Management, and the Southern Technical Institute. Case study compilation and analysis, small-scale industry problem solving analyses, innovative methodology generation for small industry development, formal and informal education and training programs and appropriate conferences and seminars will constitute the five years of work. IDD Chief Ross W. Hammond will serve as program director.

The program will be administered through the office of the Vice President for Academic Affairs, a program director, an internal and an external advisory committee. The program director will have the authority and responsibility to direct the program design, development and implementation within the established framework and to coordinate the individual and unit activities.

The Internal Advisory Committee will consist of the Vice President for Academic Affairs; Associate Vice President for Academic Affairs; Deans of the Engineering, Industrial Management and General Colleges, Division of

Graduate Studies and Research; EES Director M. W. Long, and the program director.

The External Advisory Committee will be comprised of AID representatives, national, international, collegiate and scientific personnel as well as the program director and the Vice President for Academic Affairs.

Some of the anticipated first-year end products are: major information resource acquisitions, methodology, economic and industry reports, training program development and a tested graduate course developed and operational.

IDD ASSISTANCE MAY HELP DECATUR COUNTY LAND LARGE MANUFACTURER

A major national manufacturer of products for the carpet industry may locate a plant ultimately employing 1,000-2,000 workers at Bainbridge as a result of a labor survey which turned up well over 7,000 potential employees within a 35-mile radius. EES's Industrial Development Division was one of the co-sponsors of the survey, with **Bill Howard** lending his expertise to assure a successful registration despite rain and snow during the three-day survey period, February 8-10. The availability of an adequate supply of labor is one of the principal factors affecting the company's location decision.

Bill Howard and Bainbridge area officials plan labor survey and registration

A. ECKER ON IEEE COMMITTEE

The Institute of Electrical and Electronic Engineers (IEEE) has formed a new Committee on Man and Radiation (COMAR) to be a "clearinghouse" for all information on biological effects of non-ionizing electromagnetic radiation. **Dr. H. Allen Ecker**, Chief, RD, is one of four people who have been appointed to serve on this committee. The other committee members are Mr. H. Mark Grove, Walter Reed Army Institute of Research; Dr. Don R. Justesen, Director, Neuropsychology Res. Lab., U.S. Vet. Admin. Hospital, Kansas City, Mo.; and Dr. J. M. Osepchuk of the Raytheon Company, Waltham, Maryland.

Dr. Ecker has also been asked to serve on the Paper Review and Selection Committee of the 19th Annual Tri-Service Radar Symposium. He attended the first meeting of this selection committee at Wright-Patterson AFB, Ohio on 27-28 February.



H. BASSETT ON TOUR

Harold Bassett, ST Div., presented a talk entitled "High Temperature RF Transmission Tests on EM Windows Conducted at the French Solar Furnace" at the January 29 meeting of the Atlanta Group Chapter of the MTT/AP (IEEE). This was a popular talk, as evidenced by the standing room only crowd who attended.

Harold departed the next day for France — his third trip to the French Solar Furnace in Odeillo. After completing radome tests, during the period 1-10 February, Harold joined Al Sheppard for a visit to the Electromagnetic Research Institute in Florence, Italy on 12 February. There they were given reviews of the Italian work on open resonators and open structure waveguides for millimeter wave propagation. Al is on his way to present a paper on this subject to a symposium on Radio Communication in New Delhi, India accompanied by his son Albert.

RECENT STAFF CHANGES IN IDD'S FIELD OFFICES

IDD has made several changes in its field office personnel recently. Lynnard Tessner has been shifted from the Rome office to assist Tom Murphy in Augusta. Sanford Ulmer has left the Savannah office to join the Savannah Port Authority, and Miles Greer has left the Douglas office to join the Florida Division of Commercial Development. Sherman Dudley has been promoted to head of the Douglas branch. Melba Marshall is the new secretary of the Macon office.

ARCHIVES NEEDS COPIES

The Price Gilbert Memorial Library is the repository of Georgia Tech Archives. Unfortunately, much of the archival material is not sent to the Library as a matter of course and consequently the collection is deficient in many important respects.

President Pettit has requested we make every effort to supply copies of articles, reports and published material to the Library when you are responsible for generating or distributing it.



HAMMOND HOSTS KOREAN

IDD Chief Ross Hammond hosted Dr. Hyung Sop Choi, Korean Minister of Science and Technology during his March 3 visit. Dr. Choi visited Tech and called on President Pettit. He was accompanied by Hyung Ki Kim, Director of the Office of Technical Cooperation of the Ministry of Science and Technology.

Korea is one of the few countries to establish a national ministry of science and technology, and Dr. Choi has been its first minister. Previously, he was president of the Korean Institute of Science and Technology, a large applied research organization similar to the EES.

Recent additions to the secretarial staff of the Sensor Systems Division are Deanna Hnat and Janet Lewis. Deanna transferred from PSD and Janet from the School of Mech. Eng.

Bob Cassell was a panel leader at a seminar sponsored by the Altamaha Georgia Southern Area Planning and Development Commission February 20.

Anne Clayton has joined the Radar Division as a Graduate Research Assistant and will be an intern in the area of Computer Simulation. Anne is the daughter of the late Gerald Rosselot, former Director of EES.

David Wilkins, a new Graduate Research Assistant in the Radar Division, will be an intern in the area of Radar Signal Analyses, David received his BSEE from South Alabama.

To the Editor:

Note of doubtful interest

Recently I received a call from a Tech alumnus, Mr. Charlie Neal, who wanted to check the value of pi, to the 20th decimal place. When I had located it, he asked me not to read it to him, but to let him read his value to me and see if it was right. The reason; it was a memory stunt. The value he read me was:

3.14159265358979323846

which is correct. He was in doubt about only one digit (the third nine).

It seems that the memory aid he used was developed by him and several other students during a "bull session," and consists of the following exclamation:

"How I want a drink — alcoholic, of course — after the rough chapters involving plastic equations! Boy, oh boy! Cocktail time! Cheers!"

Just write down in sequence the number of letters in each word, and you have the value of pi to 20 decimal places. Mnemonics are not new, but not all of them have the intrinsic appeal that has enabled this one to stay with a person for several decades.

Herb Burrows

An article titled "Flow Through Time in Trickling Filters" by T. F. Craft and R. S. Ingols of NBSD has been published in the January issue of *Water & Sewage Works*.

STATION NEWS

Vol. 2 No. 2 Mar. 1973
Published monthly for employees of the Engineering Experiment Station, Georgia Institute of Technology, Atlanta, Georgia 30332.

J. A. Donovan, Editor	3405
Bonnee Wettlaufer, Ass't Ed.	3405
John Cuevas, Art Editor	3856
Ruth Bodnar, Asst. Art Editor	3856
Betty Yarborough, Assoc. Ed.	3445
Betty Jaffe, Assoc. Ed.	3430
Ann Lewis, Assoc. Ed.	3516
M. A. Deadmore, Assoc. Ed.	3873
J. E. Garrett, Reproduction	3570
Harriett Jones, Typography	3570

OUR EES

PEOPLE ON THE MOVE

Prof. **R. Hayes** and Sr. Res. Phy. **F. B. Dyer**, Systems & Techniques, were in Philadelphia Jan. 5 for technical discussions . . . Then Dyer and Asst. Res. Eng. **J. C. Butterworth** visited field operations in Wildwood, N.J. Jan. 10-12 . . . Butterworth returned to Wildwood Jan. 18-20 with Asst. Res. Eng. **N. C. Currier** to perform radar measurements in consultation with the U.S. Coast Guard Command . . . Currier had been in Wildwood for field operations Jan. 7-11 with Asst. Res. Eng. **W. Foster** . . . Physical Sciences Res. Prof. **E. J. Scheibner** and Res. Sci. **J. L. Carden** traveled to Melbourne, Fla. Jan. 5-8 for program development with Harris Semiconductors . . . Carden was in Dayton O. Feb. 12-14 attending the conference on Large Scale Integration and for contract development . . . Technical discussions caused S&T Sr. Res. Eng. **H. L. Bassett** and Inst. **G. K. Huddleston** to travel to Research Triangle Park, N.C. Jan. 9 . . .

S&T Sr. Res. Eng. **G. W. Ewell** was in China Lake, Calif. Jan. 11-13 and in Washington, D.C. for the day Feb. 1 for technical discussions . . . **P. E. Mackie**, a PSD post doctoral fellow, attended the ACA meeting in Gainesville, Fla. Jan. 14-18 . . . Res. Eng. **E. K. Reedy**, S&T, was at a technical conference in Los Angeles Jan. 14-18 . . . Then Reedy spent much of the first part of Feb. on the road. From Jan. 31-Feb. 2, he was in Dahlgren, Va. for contract development. Then he was off to Boston, Feb. 7-9, for technical discussions with Raytheon . . . Industrial Development Division Res. Sci. **G. A. Morelos** is spending six months in Asuncion, Paraguay, for fulfillment of a contract with the U.S. Agency for International Development. He'll return after June 30 . . . Sr. Res. Eng. **J. N. Harris**, High Temperature Materials, reviewed project work in Orlando, Fla. Jan. 16 . . . Harris and Res. Eng. **E. A. Walsh** went to Huntsville, Ala. to review a final report on Jan. 19 . . . Prin. Res. Eng. **E. R. Flynt**, Sr. Res. Eng. **R. P. Zimmer** and Res. Eng. **R. G.**

Pearl from S&T were in Dayton Jan. 16-18 for technical discussions . . .

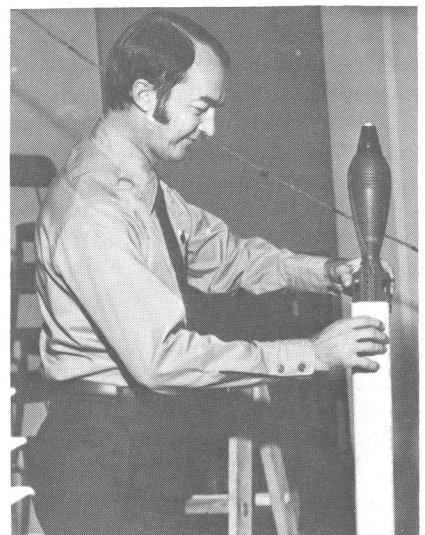
The next week, Jan. 23, Zimmer and Pearl were in Washington for contract development . . . Flynt was with Res. Eng. **W. E. Sears, III**, in Washington Feb. 20-23 for technical discussions . . . Then Flynt left on a week's round of discussions. From Feb. 25-Mar. 1, he visited Pleasantville and Buffalo, N.Y. and Newark, N.J. . . . Rocket firings in White Sands, N.M. were witnessed by Photo Lab Asst. Mgr. **M. C. Hedin** Dec. 13-26 and Jan. 21-Feb. 21 . . . PSD Res. Sci. **K. Sudarsanan** presented a paper at the ACA meeting Jan. 14-18 in Gainesville . . .

Res. Sci. **A. McSweeney** of S&T held technical discussions in Huntsville Jan. 24 . . . IDD Chief **R. W. Hammond** and Sr. Res. Eng. **N. C. Wall** went to Washington Jan. 29-30 to investigate contract opportunities with various governmental agencies . . . Hammond was busy Feb. 5-7. He was in New York to discuss proposals with the Ford Foundation and UNIDO; then he went to Ithaca to participate in a seminar series under a Cornell University grant. On Feb. 13-14, he finalized a proposal with AID in Washington . . . Sr. Res. Sci. **W. C. Ward** and Res. Sci. **P. D. Koos** of IDD were in Muscle Shoals, Ala. Jan. 31-Feb. 1 to investigate materials to be used in a project . . . **R. A. Young** of PSD participated in the ACA and USARCC meetings in Gainesville Jan. 12-18 . . . Nuclear & Biological Sciences Res. Prof. **R. S. Ingols** conducted a river survey in Elgin, S.C. Jan. 18 . . . Equipment for a project was picked up by communications Asst. Res. Eng. **H. T. Johnson** at Griffiss AFB, Rome, N.Y. on Jan. 23 . . . Sensor Systems Chief **R. M. Goodman, Jr.**, and Res. Eng. **D. G. Bodnar** gave a technical presentation and visited a sponsor in the Washington area Jan. 23-24 . . . Goodman was with a contingent from S&T who visited Eglin AFB for technical discussions Feb. 6-7. Gone were Sr. Res. Eng. **J. F. Kinney** and Res. Eng. **S. P. Zehner** . . . Applied Sciences Res. Eng. **M. M. Cooksey** traveled to Skokie, Ill. to discuss poten-

tial sponsorship of a project for Sargent-Welch Co. Jan. 24-25 . . . IDD Res. Sci. **W. C. Howard** was in Frankfurt, Ken. Jan. 30 to observe the EDA OTIS Plan implementation . . .

IDD Res. Sci. **R. B. Cassell** attended the American Industrial Development Council Education Foundation Editorial Board Meeting in Columbus, O. Jan. 22-23. Then he attended the board meeting of the AIDC in New Orleans Jan. 31-Feb. 1 . . . IDD Res. Sci. **P. W. Potts** visited CPRC Housing project construction sites in Florence, Ala. Jan. 31-Feb. 1 . . . Service Groups Manager **T. Jones** attended the Interservice Committee on Technical Facilities meeting in Boca Raton, Fla. Feb. 4-6 . . . Publications Head **J. A. Donovan** attended the ACPRA regional meeting in Macon Feb. 6 . . . HTMD Chief **J. C. Walton** visited the solar furnace in Odeillo, France Jan. 29-Feb. 12 . . . Res. Eng. of S&T **T. M. Miller** visited Dahlgren Jan. 31-Feb. 2 for contract development . . . Also visiting Dahlgren and Washington was S&T Asst. Dir. **R. C. Johnson**, from Jan. 31-Feb. 1 for contract development. Then Johnson went to Los Angeles Feb. 11-15 to attend WINCON-73 and for contract development . . .

Continued, next page.



Count-down begins for S & T prototype space vehicle

PERSONALITY

MARCH MISS

It was a foggy morning, and what better time or mood for interviewing Maggi Rampling. A good receptionist for an organization as large as the EES needs to be a pleasant, happy person. And those adjectives do not adequately describe Maggi.

"Trivial things make me happy. Like getting my driver's license the first try in England, because it's very difficult to get one there. And my brother didn't get his the first time. One of my happiest times was when I went home to England after my first year here. And when my mother visited me and I could show her a good time. All in all, I've had a very pleasant life."

We were among the dozens of people who ask Maggi the worn question, "What's a nice girl like you doing . . ." Her decision to move to the United States was prompted by a Lockheed public relations program they probably didn't realize existed. Maggi and a girl friend worked for Lockheed outside London. Through their telephone conversations with Marietta personnel, the girls decided to pack up and move, based on the warmth and friendliness of the Lockheed employees. But it wasn't an easy decision to make, and the consequences were less than they expected.

"It took us about six months to get all the papers and forms in proper order. And I arrived here with no job and not much money. I finally did get a job with Lockheed, but after about six months, they started laying off people. My girl friend has since returned to England. I would think twice now before doing something like that again."

Lockheed's loss is our gain; Maggi has been at EES for three years.

What leisure activities consume the time of a single English girl in Marietta, Georgia? Maggi swims as often as possible at the YWCA. And plays bridge. And writes or sends cassette tapes home. And tries different restaurants in and around Atlanta. And dates, of course. Maggi devotes many



Maggi Rampling, our London bird

hours to her hobby of cutting unusual bottles into attractive vases, candle holders and gifts. Most of her friends are now dedicated to saving curious bottles for her. And, she hastened to explain, they don't necessarily have to be alcoholic beverage bottles. Though some bottles are more fun to empty than others. Maggi says she seems to be over-run with bottles on occasion. One of the good things about the hobby according to Maggi is that she always has a supply of gifts on hand.

And being an adventuresome person, Maggi likes to travel. Some trips are a necessity; such as the trip home every other year. Her mother has been coming here the opposite year, and they are trying to talk her older brother into visiting. In the United States, Maggi has traveled the Southeast and Texas. And she has visited three of our largest cities: Los Angeles, Washington, D.C. and New York. There also has been a trip to Toronto, Canada, to visit some relatives. High on Maggi's list of places to visit next are Las Vegas and the Grand Canyon.

Having traveled her adopted country, Maggi is not disappointed.

"No part of the country has been a let down. I have found it very easy to settle into the way of life here. I really don't know if I could go back to London. I'm sure I could readily adapt if I did return. It's just that I'm very glad to be in the United States."

EES PEOPLE ON THE MOVE

Continued—

S&T Res. Eng. **R. M. Mason** was in Washington on Feb. 5 for delivery and discussion of a final draft report to the FCC . . .

Radar Chief **H. A. Ecker** and S&T Asst. Mgr. **H. A. Corriher, Jr.**, were in Dayton doing consultations on Feb. 6 . . . TAG's **J. E. Husted** was busy in Feb. He discussed new work and reviewed work in progress with the sponsor in Washington Feb. 7-9. Then he spent the latter part of the month in Chicago and Urbana, Ill. He attended the Feb. 25 annual meeting of the AIME and participated on several committees as well as the Council of Education. He was in Urbana gathering information, then returned Mar. 1 . . . IDD Res. Eng. **R. L. Tessner** and Ass. Res. Eng. **W. N. Craig, Jr.**, are visiting various cities in S.C., Tenn. and Fla. from Feb. 4-Apr. 1, gathering information for a mineral study . . . **L. C. Young**, ASD Sr. Res. Sci., was at Patrick AFB Feb. 7-9 for contract negotiation . . . Another visitor to Patrick during the day of Feb. 8 was NBSD Sr. Res. Sci. **T. P. Lang**, there for technical negotiation of a potential contract . . .

Dr. Ecker has written a chapter entitled "Organ Cryopreservation" in the book *Viable Preservation of Organs*, edited by Dr. Armand M. Karow, Jr. of the Medical College of Georgia. The book has been accepted for publication by Little, Brown and Company, Boston, Mass.

Willie Forsten of Accounting left Feb. 28. She has been replaced by **Mildred Heyser**.

Bob Shackelford, Special Techniques Division, has moved into his new house at 8525 Cedar Grove Road, Route 2, Fairburn.

IDD RESIGNATION

George Woodard has resigned as head of IDD's market analysis section to become assistant vice-president and director of market research for the First American National Bank of Nashville, Tennessee.