

Station News

Georgia Tech Engineering Experiment Station

VOLUME 10 NUMBER 4

APRIL 1980

Walton Helps Algeria With Solar Program

Algeria expects to run out of fossil fuels in 30 years and a crash program developed by an EES engineer working for UNESCO could fill the resulting energy gap.

"Algeria is working on a fairly tight time frame to introduce some other form of energy," said **J.D. Walton** of the Engineering Extension Laboratory. "They don't have large quantities of wood but the country does get plenty of sunlight."

Walton spent the month of February in Algeria, looking for ways to introduce solar energy to rural areas. His February visit was his third to Algeria for UNESCO.

The Algerian government plans to build 1,000 new villages, most of them at least partially fueled by power from the sun. The program is an attempt to slow migration from rural areas into Algeria's over-crowded cities — and to build a stronger national agricultural system.

Solar energy will be tapped for such vital functions as crop drying and irrigation. Rural communities also can use it to heat water for central baths and bakeries as well as for private homes.

Walton has proposed that the Algerian government import solar technology from the United States until the country learns enough to build and operate its own systems.

"Algeria's experience with solar is limited largely to single units such as collectors," Walton explained. "They need to learn to use complete systems."

Walton believes that EES could provide the technical expertise Algeria needs if his proposals are approved.



John Kirk, TAL engineer, inspects a mash cooker at an alcohol fuel still operated by U.S. Fuels, Inc., in Barnesville, Ga. TAL is planning to build a 25-gallon per hour corn-fed alcohol still on campus. People attending gasohol short courses and other interested parties will be able to study the still.

Electronics Convention Set For Southeast

Southcon, a new high technology electronics convention, will debut in Atlanta on January 13, 1981, at the World Congress Center.

Southcon will be patterned after the successful Wescon, Electro and Midcon conventions with its three days of exhibit presentations and professional program activities. More than 10,000 electronics engineers are expected to attend this new conference sponsored by the Institute of Electrical and Electronics Engineers and the Electronics Representatives Association.

Georgia Tech President **Dr. Joseph M. Pettit** will serve as chairman of the board for the event. **Dr. James Wiltse**, associate director for EES electronics

laboratories, will be chairman of the professional program committee.

The program committee is seeking proposals for sessions with a duration of two hours. Session proposals must be submitted in business letter format and include a title and a short statement of scope, content and objectives. They must include the names of four to five speakers and their presentation titles.

The deadline for written proposals is May 30 and manuscripts are due on Oct. 17, 1980. Proposals should be mailed to: Administrative Manager, Southcon/81, 2200 Parklake Drive, Suite 150, Atlanta, Ga. 30345.

STATION TO STATION

Whenever I'm asked why EES enjoys so much success, I inevitably respond that the first and foremost ingredient is our people. EES research and support professionals are responsible for our rapid growth and record of accomplishment.

A recent projection indicates that we need to double our staff within the next four years to continue the program growth experienced during the past five years. We look forward to hiring many more qualified people and to providing satisfying job experiences for them all.

During the first seven months of this fiscal year, we employed 71 new research professionals and hired 91 new full-time support staff members. At first glance, these figures indicate a 15 percent growth in research personnel and a 51 percent growth in support personnel. Unfortunately, 35 research and 51 support personnel also terminated during the same time period. So, the net increases in staff were only eight percent in research professionals and 22 percent in support personnel. The attrition rate in support personnel was particularly high, with a turnover of more than one out of every four people.

We need to understand why employees leave EES. Consequently, every terminating full-time staff member is now being given an exit inter-

Fire Causes Minor Damage

On April 1, a small fire occurred on the platform of the tower at the Advanced Components Test Facility.

The incident happened when a focused beam of solar radiation was inadvertently allowed to move onto the platform, igniting a canvas tarpaulin.

An experimental steam boiler on the tower sustained minor damage to its wiring and thermocouple connectors. Blistered paint in several small areas was the only damage incurred on the tower.

Repairs on the facility and equipment were made within a few days and the project resumed its test schedule.

view. All interviews are conducted on a strictly confidential basis by **Ryan Mura** and **Chip Wiggins** of Personnel Services. The information will be used only to identify major problem areas and to design solutions aimed at curbing attrition.

In the meantime, we ask that all employees be astute in interviewing and recruiting new personnel. Hiring the right professionals for positions that will provide satisfaction is an immediate measure that can help in attaining our personnel goals.



EES Director Don Grace

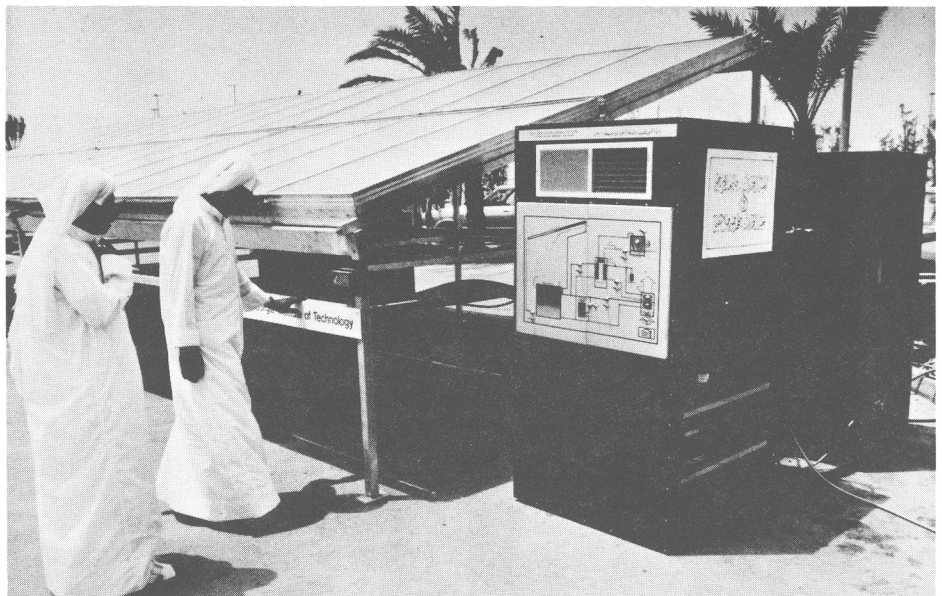
Tech To Be Seen On Arab TV

The United States International Communications Agency (USICA), which operates the Voice of America and other information services, is completing a TV program on mideast solar energy activities, featuring Georgia Tech's solar projects.

The USICA has commitments from TV stations throughout the Arab world to broadcast this program. Georgia Tech participants are **Dr. Richard Williams**, associate dean of engineering, and **Dr. Atif Debs**, professor of Electrical Engineering. Dr. Debs is also serving this year as director of the Energy Division of the Kuwait Institute

of Scientific Research (KISR). Two other participants in the program are **Dr. Adnan Shihab-Eldin**, director general of KISR, and **Dr. Daghestani**, deputy director of the Royal Scientific Society of Jordan.

This program will include the Georgia Tech solar power tower, solar chicken houses, the Shenandoah Solar Community Center, several solar houses, the solar total energy large scale experiment, and Georgia Tech's projects in Kuwait and Saudi Arabia, which include the first two solar airconditioning systems in the Arab world.



One of the first solar air conditioning systems in Saudi Arabia was exhibited on the island of Bah before its installation at the University of Riyadh. The system will be featured on the USICA television program on Tech's solar projects.

Presentations And Awards Highlight February-March

ECONOMIC DEVELOPMENT LAB

David Clifton and **Frank Coyle** have published a report entitled "Computer Applications for Business and Industry." Twenty-one new computer programs, generated in the course of the study, are now available for use with step-by-step instructions.

Bill Howard has been appointed to serve on the national Consultation Resources Development Committee of the U.S. DOL-OSHA.

Rosalinda Ratajczak's review of "Free to Choose: A Personal Statement," by Milton and Rose D. Friedman, was published in the *Atlanta Journal-Constitution* in February. Ratajczak was also recently named to the board of directors of the Atlanta Women's Network.

Judi Komaki gave a presentation on "How to Improve Productivity Through Employee Motivation and Incentive" at the productivity conference of the Georgia Business and Industry Association in February. In March, she conducted a workshop on "A Behavioral Approach to Business and Industry" for the Colorado Society of Personnel Administrators in Boulder.

ELECTROMAGNETICS LAB

J.W. Dees, Jim Schuchardt and **Jim Wiltse**, associate director for electronics laboratories, visited Standard Elektrik Lorenz AG, a division of ITT, in Stuttgart, Germany, during the week of March 24-28. They were invited by ITT headquarters in New York to participate in a millimeter wave technology exchange meeting. Their Georgia Tech briefings covered U.S. trends in millimeter wave and radiometric seeker technology.

RADAR & INSTRUMENTATION LAB

Jim Metcalf attended the recent Fourth Annual Workshop on Meteorological & Environmental Inputs to Aviation Systems. Hosted by the University of Tennessee Space Institute in Tullahoma, Tenn., the workshop was sponsored by NASA, NOAA and FAA. Metcalf participated in the discussions of the Turbulence Committee on Clean Air Turbulence (CAT), turbulence associated with storms and wake vortex turbulence.

TECHNOLOGY APPLICATIONS LAB

David Wade attended the ASHRAE semiannual meeting in Los Angeles, Calif.,

on Feb. 6 to present a paper entitled, "Heat Pump Centered Heating and Cooling Utilizing Wastewater Heat Recovery."

"Potential for Cogeneration and District Heating for Piqua, Ohio," was the topic of a paper delivered by **Ben Trammell** at the Energy-Sources Technology Conference and Exhibition in New Orleans, La., on Feb. 5. **Badarinath Dixit** also attended the conference and presented a paper entitled, "Analysis and Performance of Heat Pump Centered Community Heating and Cooling Systems Using Wastewater Effluent as an Energy Source."

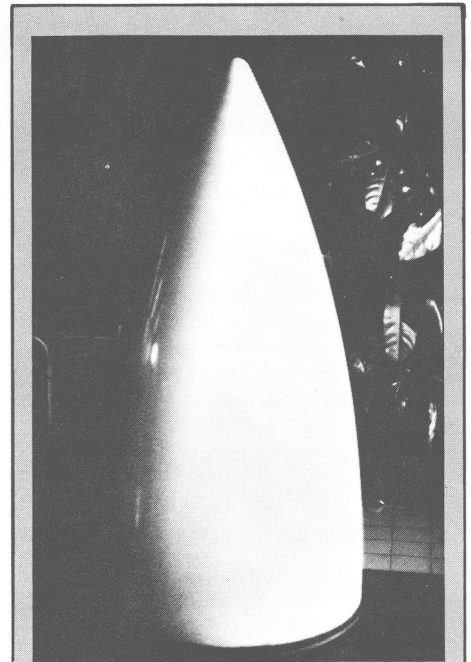
Bill Moran, Energy Conservation Division chief, spoke at the Fourth Statewide Community Development Conference on Feb. 26, in Athens, Ga. His topic was "Conservation Opportunities in Georgia." **Steve Coursey** addressed the Rotary Club of Milledgeville on Feb. 7 and **Bill Himes** discussed "Energy and the Way We Live" at the West Georgia Regional Library in early February.

Bill Boykin and **Richard Combes** of TAL's Applied Engineering Division conducted workshops on energy conservation in the poultry processing industry on Dec. 18 in Washington, D.C., and on Jan. 15 in Ft. Smith, Ark. Boykin also presented a paper on the same topic at the Energy Technology Conference and Exposition in Washington, D.C., on March 26.

Craig Wyvill of TAL has authored a proposal which recently won a \$50,000 research grant from the NASA Lewis Research Center in Cleveland, Ohio. The grant will be used to study specific noise abatement techniques for poultry processing plants.

Carol Aton of the Wood Energy Systems Branch was a panelist and speaker at the Wood Energy Institute Meeting held in Atlanta on Feb. 27. She presented a paper entitled, "Wood Stove Safety: Remember the Homeowner." **Tom McGowan** and **Bill Bulpitt** also represented TAL at the recent Solar Energy Workshop sponsored by the Southern Solar Energy Center in Atlanta. McGowan spoke on the use of wood energy in residences; Bulpitt discussed wood as an industrial energy resource.

TAL Director **Jerry Birchfield** and **Bill Bulpitt**, head of the Wood Energy Systems Branch, participated in the Energy Generation and Cogeneration from Wood Conference held in Atlanta Feb. 18-20. Both Birchfield and Bulpitt chaired sessions during the conference sponsored by the Forest Products Research Society. Birchfield also presented a paper entitled "Up-draft Gasifiers for Boiler Retrofit."



Art In Engineering

A fused silica radome designed by two EES engineers stands in a major ceramic art museum along with such unique items as an ancient wall tile from Carthage, North Africa.

The collection of the American Ceramic Society's Ross C. Purdy Museum in Columbus, Ohio, includes more than 700 international ceramic art works ranging from fine china to industrial products.

The four-foot tall ceramic radome, slip cast of fused silica, is believed to be one of the largest in the world. It was among the first industrial art works to be selected for the museum.

The radome was designed and fabricated by EES engineers **J.D. Walton** and **Nick Poulos** under a contract with the Air Force Avionics Laboratory.

The radome's 3100°F melting point, excellent thermal shock resistance, low thermal conductivity and low dielectric loss combined to make fused silica a particularly suitable material for vehicles encountering high temperatures on reentry from space flights.

Sponsored Projects Rise, EES Labs Gain New Contracts

(Project Director, Subject, Sponsor, Funding)

CHEMICAL & MATERIAL SCIENCES LAB

S.B. Smith, GAC Analyses for BET and Pore Size Distribution, Manchester Water Works, \$1,200.

J.L. Carden, Jr., Analyses of Samples of Granular Activated Carbon, EPA, \$9,883.

J.L. Carden, Jr., Development of a Prototype Experiment for Treating CELSS and PCELSS Wastes to Produce Nutrients for Plant Growth, MIT, \$37,232.

J.N. Harris, Development of Fused Silica Slip Composition for Dielectric Dome Fabrication, Sperry Gyroscope, \$14,795.

COMPUTER SCIENCE & TECHNOLOGY LAB

W.A. Baird, Distribution Energy Management System, Megaplex Networks, Inc., \$42,000.

G.L. Peckham, Computer-Aided Application Specification Testing System, MERADCOM, \$140,221.

G.L. Peckham, Support of the Automated Life Cycle Management Research Project, MERADCOM, \$10,491.

M.J. Rowan, Planning Land Use Model on Several Developmental Highways, Georgia Dept. of Transportation, \$5,923.

A.P. Jensen, Support of MILPERCEN Data Sharing Concept, MERADCOM, \$122,925.

ECONOMIC DEVELOPMENT LAB

J.S. Tiller, Preliminary Economic Feasibility Analysis of Products for Indian Manufacture, Southwest Georgia Area Planning & Development Commission, \$14,200.

B.W. Riall, A Program to Develop a Model User Charge/Industrial Cost Recovery System for a Small Community, Dept. of Community Affairs, State of Georgia, \$9,577.

H.S. Taylor, Southeastern Regional Trade Adjustment Assistance Center, U.S. Dept. of Commerce, \$650,000.

R.B. Cassell, A Program of Technical Assistance, Cobb County Chamber of Commerce, \$6,000.

ENGINEERING EXTENSION LAB

N.C. Wall, Technical Assistance to Trade Commissioner of Jamaican National Export Corp., CEPEX, Organization of American States, \$3,136.

N.C. Wall, Technical Assistance to Centro de Promocion de las Exportaciones,

CEPEX, Organization of American States, \$4,992.

P.D. Loveless, A Program of Technical Assistance, Georgia Diversified Industries, Inc., \$5,000.

R.L. Tessner, Design of a Water Jet Stone Cutter, Elberton Granite Association, \$6,862.

A.T. Acree, Experimental and Theoretical Research on Program Mutation, Office of Naval Research, \$8,828.

G.H. Lee, Design of Acoustical Treatment for Noise Control in a Sawmill in Hazelhurst, Ga., Continental Forest Industries, \$18,908.

R.L. Tessner, Evaluation of New Merchandising System, Coca-Cola, USA, \$4,000.

N.C. Wall, Alternative Energy Sources, U.S. AID, \$4,184.

D.E. Primrose, A Program to Assist in Expanding Production Capacity, Nash Fabricating and Machine Company, \$3,495.

R.C. Johnston, Nonconventional Energy Development Training, U.S. AID, \$60,958.

G.R. Fletcher, Marketing & Commercialization Strategy for Photovoltaic Technical Information and Dissemination, Solar Energy Research Institute, \$24,957.

ELECTROMAGNETICS LAB

E.L. Meeks, Growth Of GaAs Epitaxial Layers By MBE for Millimeter Wave Veractors, Addington Laboratories, Inc., \$15,000.

J.J. Gallagher, Partial Support for the 2nd International Conference on Lasers and Applications, U.S. Army Research Office, \$5,000.

N.W. Cox, Jr., Millimeter Wave Mixer Diodes, Hughes Aircraft Company, \$96,500.

J.M. Schuchardt, Millimeter Wave Technology and Simulation Facility Investigation, Boeing Aerospace Company, \$31,821.

R.W. McMillan, Precision Tracking Radar Antenna Measurements, Battelle Columbus Laboratories, \$19,965.

G.N. Hill, Thin Film Metalization Services, Electromagnetic Sciences, Inc., \$2,000.

ELECTRONICS TECHNOLOGY LAB

B.J. Cown, Far-Field Measurements to Characterize Out-of-Band Reflector Antenna Pattern Performance, U.S. Air Force, \$95,809.

J.C. Toler, Analysis of Shipboard EM Radiation Levels Relative to Personal Safety, Naval Underwater Systems Center, \$7,500.

R. W. Moss, Communication System Study, Bendix Corp., \$5,851.

R.W. Moss, Design of a Comprehensive Power Monitoring and Control System, Ogelthorpe Power Corporation, \$254,496.

RADAR & INSTRUMENTATION LAB

H.L. Bassett, The Effects of Radome Errors on Polarimetric Processing Seekers, Battelle Columbus Laboratories, \$7,181.

D.C. Stallings, Resistive Sheet Measurements, Sperry Systems Management, \$28,888.

J.A. Scheer, 95 GHz System Support, General Electric Company, \$24,624.

J.F. Kinney, Development of Computer Model of the Interaction of Influence Fields for a Set of Target Vessels with a Multi-Sensor Mine, Naval Coastal Systems Center, \$148,927.

E.F. Knott, Technical Support for Non-Specular RCS Phenomena Study, McDonnell Douglas Corp., \$6,128.

D.S. Ladd, Development of Design Criteria for Compact 95 GHz Transmitters, Battelle Columbus Laboratories, \$18,935.

F.R. Williamson, Engineering Services for the MX Horizontal Shelter Physical Security Systems Study, Boeing Aerospace Company, \$232,300.

W.J. Steinway, Soil Radar Response Study, NASA, \$9,985.

SYSTEMS ENGINEERING LAB

L.D. Holland, Signal Processing Study, U.S. Air Force, \$60,000.

T.P. Rusk, Engineering Services in Support of AN/ALR-69 RWR Threat Generator Portion of Integrated Support Station, Warner Robins ALC, \$59,479.

H.F. Engler, Software Functional Procedure to Verify ECSAS, Warner Robins ALC, \$11,000.

J. Gibbons, Green Flag Analysis, Warner Robins ALC, \$35,000.

SYSTEMS & TECHNIQUES LAB

R.A. Moore, Proposal for Investigation of Frame Design Improvements, Pioneer Heddle and Reed, Co., \$5,679.

TECHNOLOGY APPLICATIONS LAB

W.G. Moran, Industrial Energy Extension Service, Georgia Office of Energy Resources, \$440,000.

J.L. Clark, Passive and Hybrid Solar Manufactured Housing and Buildings, Madison Industries, Inc. of Georgia, \$31,188.

D.M. Moore, Energy Conservation Assistance to Georgia Appalachian Industries, Georgia Office of Energy Resources, \$78,958.

EES Engineers Study Cancer With EM Waves

Physicians may one day detect and treat cancer with electromagnetic waves.

Cliff Burdette and **Jim Toler**, two EES biomedical engineers, have learned through laboratory tests that normal and cancerous tissues respond differently under exposure to electromagnetic waves, the radiant energy which beams television signals, tracks missiles and even heats our food.

"All things, including tissues in the human body, have varying capacities to absorb electromagnetic radiation," said Burdette of the Electronics Technology Lab (ETL). "The radiation they absorb is converted to heat."

"Cancerous tumors absorb energy and retain heat far more than normal tissues. This offers researchers and

physicians an ideal way to use non-ionizing electromagnetic radiation for cancer therapy," said Burdette.

When normal tissues are heated by exposure to electromagnetic energy, they expel the accumulated heat through vascular action. The blood stream carries it away to other areas of the body. Vascular action in cancerous tissues is poor, so tumors cannot rid themselves of heat as efficiently as normal tissues.

"This makes cancerous growths easier to detect and treat, even in relatively early stages of development," said Burdette.

Burdette and Toler have experimented with mice, dogs and several human volunteers. So far, their work has been confined to detecting sur-

face tumors. However, a needle-shaped antenna under development by ETL will allow scientists to explore sub-surface tissues without the necessity of surgical operations.

The same antenna also may be an effective tool in future cancer treatment. Doctors or medical technicians could beam electromagnetic radiation into cancerous tumors, literally burning them up without harming the surrounding normal tissues.

Burdette and Toler believe that cancer therapists could destroy tumors by applying radiation through antennas placed on four different sides of a patient. This radiation would be beamed alternately from each antenna.

"When the normal tissue got pretty hot from exposure to one antenna's radiation, we would turn off that antenna and switch another on," said Toler. "In this way, we could heat the tumor from all four directions without burning any of the surrounding normal tissues."

ETL's research on the use of electromagnetic radiation in cancer detection and treatment is funded by the National Cancer Institute and the Walter Reed Army Institute of Research.

Carpooling

For EES employees, the average annual round-trip cost of driving to work alone in a six-cylinder compact car is: \$4,688 from Cherokee County; \$2,700 from Cobb County and \$1,452 from Clayton County.

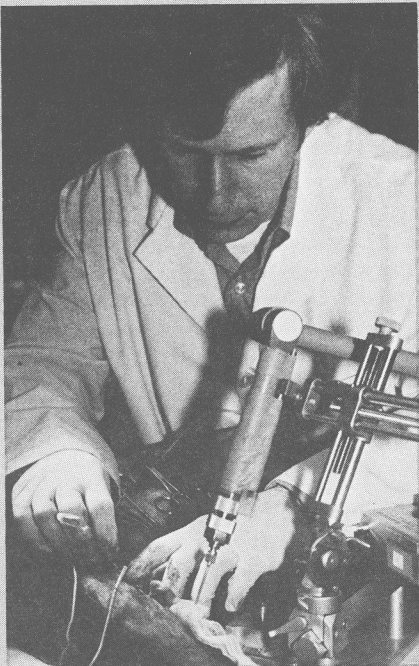
Carpooling is the oldest, and often the easiest, way to combat the rising cost of transportation. Please send information to STATION NEWS, Hinman 226, if you are interested in sharing a ride with other EES employees like:

LuAnn Taylor, 894-3412 (O), 634-0436 (H). Jimmy Carter Blvd. via I-85 to C&S Bank Bldg., 7:30 to 4:30 PM, M-F. Non-smoking.

Ray Moore, 894-3405 (O), 1-251-0842 (H). Newnan exit of I-85, north to Tech, 8-5 PM. Non-smoking.

Burdette Receives Research Honor

Cliff Burdette, a member of ETL's biomedical research team, received a special award for "Outstanding Accomplishment in Engineering Research" from the Georgia Society of Professional Engineers on Feb. 22.



A probe developed for determining cancerous tumors is explored for other uses by Cliff Burdette.

He was selected for the honor among nominees from 31 member-societies in Georgia.

In presenting the award, the Society praised Burdette for his "sustained contributions to biomedical engineering in the fields of cryopreservation, electrohyperthermia and the dielectric properties of biological materials."

Burdette has devoted nearly a decade of research at Georgia Tech to the cryopreservation (freezing) and electromagnetic thawing of organs. In 1977, he helped to develop an electromagnetic probe which is used today to measure the dielectric properties of living tissues and other biological materials.

In recent years, Burdette has focused on developing techniques for the freezing and thawing of granulocytes and platelets — two elements of blood which are essential to leukemia and hemophilia patients. He is currently involved in developing the use of electromagnetic waves in detecting and treating cancerous tumors.

New Personnel Join EES

COMPUTER SCIENCE & TECHNOLOGY LAB

Tony Andruzzi, a native of Alabama, has joined the Computer Applications Branch as research associate I. **Bruce Barringer**, a former employee of the Oak Ridge National Laboratories in Tennessee, has joined the Branch as research engineer II.

The Command and Control Support Branch welcomes a new clerk, **Louise Ruffin**. **Deborah Thomas**, secretary, has joined the Software Research Branch of CSTL.

ECONOMIC DEVELOPMENT LAB

Ed Lindsey, senior research associate, has joined EDL's TAAC group to work on the Outreach and Technical Assistance project. Lindsey has worked with TAAC in the Carolinas for the past 1½ years. He received his undergraduate degree in I.M. from Georgia Tech and an M.B.A. from the University of Virginia.

Jim Thomas, research associate II, is a new member of the TAAC group. He was a management consultant with Touche, Ross & Co. of Atlanta before joining EDL. Thomas received his B.S.I.M. from Tech and an M.S. in management from Purdue University in 1977.

Johanna Williams has transferred from SEL to work on a part-time basis with EDL's **Judi Komaki**. Williams has received a B.A. in Education from Auburn University and an M.A. in Educational Psychology from Georgia State. She is presently working on a Ph.D. in Educational Psychology at Georgia State.

Senior secretary **Linda Helms** has joined the Marketing Research Group of EDL. **Mary Squires** is a new senior secretary in the Basic Data Group. **Bill Evans**, a graduate research assistant, has been hired to work with **Jerry Jackson** in energy research.

Erney Named Editor

Jackie Erney, public information specialist with the Research Public Relations Office, has been appointed editor of the STATION NEWS. In the future, please send all news items to Erney in Hinman 226.

Elinor Plowden, former STATION NEWS editor, has taken on enlarged responsibilities as public relations coordinator of electronics research.

Mark Hodges has also joined the staff as a news writer. Hodges was formerly with the Technology Applications Laboratory where he was a public information specialist for IEES programs.

ELECTRONICS TECHNOLOGY LAB

Alice T. Miller is now working with **Fred Cain**, associate director of ETL, as administrative secretary.

SYSTEMS ENGINEERING LAB

Gerald F. Mackey has joined the Defense Systems Division as a senior research engineer. A resident of Atlanta, Mackey formerly headed the Air Force ROTC Aerospace Studies at Georgia Tech. **Deborah M. Larkin** has also joined the division as a research engineer I. Larkin is a recent Electrical Engineering graduate of Louisiana State University.

Judith Elliott, a native of Macon, has joined the Warner Robins Field Office as a secretary. Senior secretaries **Janet Holbert**, ESM Division, and **Linda LaNear**, Chief Scientist's Office, have also joined SEL.

SYSTEMS & TECHNIQUES LAB

STL welcomes two senior secretaries. **Carey Floyd** has joined the "A" Program Office and **Cindy Chappell** has joined the "S" Program Office.

TECHNOLOGY APPLICATIONS LAB

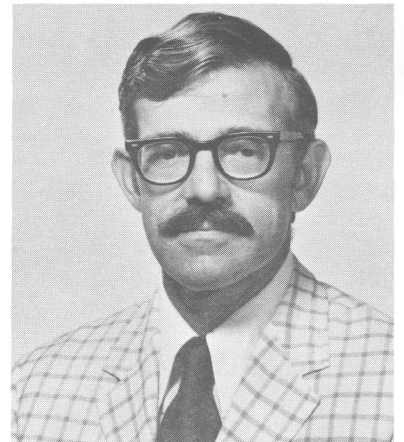
Ken Wieder has been named public information specialist at TAL for the IEES programs. Wieder previously was employed at the Center for Disease Control in Atlanta as a bio-photographer.

In TAL's Energy Conservation Division, **Bo Hendrix** has been promoted to manager of the Industrial Energy Extension Service. **Doug Moore** has been appointed manager of the Appalachian Regional Commission Energy Audit project. **David Keith** was recently promoted to research engineer II.

TAL welcomes **Tom Putman**, research engineer I, to the Conservation Technology Group. Putman previously was involved in intelligence work for the U.S. Navy. A recent graduate of Georgia Tech, he holds a B.S. degree in Mechanical Engineering.

LuAnn Taylor has joined TAL's Technology Transfer Group as a research scientist I. Taylor received a B.S. in Textile Engineering from Georgia Tech. She formerly worked with the Georgia Department of Natural Resources as an environmental engineer.

Four employees of TAL were recently registered as Professional Engineers in the State of Georgia. Congratulations to **Danny Reed**, **David Keith**, **Hank Jackson** and **Ben Trammell**.



Passafiume Is Acting Director

Edith W. Martin, director of the Computer Science and Technology Lab, is taking a temporary leave of absence from management duties to complete her Ph.D. For the next several months, Martin will work exclusively in the technical area of her dissertation.

John Passafiume, associate lab director, is now serving as acting director of the Computer Science and Technology Lab. Until further notice, all CSTL management and administrative matters should be addressed to Passafiume.

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Editor

Jackie Erney 3405

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