Station News

Georgia Tech Engineering Experiment Station

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SEPTEMBER 1980

Phase I Done At O'Keefe, EES Moves-In

The O'Keefe School, a four-story building located off Fowler between 6th and 8th Streets on campus, today bears little resemblance to the public school it once was.

Thanks to the year-long efforts of EES' Facilities Management Department and the Physical Plant, 1½ floors of O'Keefe have been renovated into modern and brightly-lit offices for EES personnel.

On August 25, approximately 65 people were moved into the 11,000 square-foot second floor of the building. Personnel from the Basic Data Library and the Technology Applications Laboratory in the C&S Bank Building were among the first to relocate. Joining them in the move were personnel from the Engineering Extension Laboratory and

the International Library in the Baker Building. The Office of Naval Research and AIRMICS also were moved from the Hinman and Rich's Computer Science buildings into the O'Keefe School.

"Over the past year, we installed central air-conditioning, emergency lighting and fire doors," said **Tom Jones**, EES manager of facilities. "The building was completely rewired, windows were replaced and the ceilings were dropped and covered with acoustical tile. The first 1½ floors are now completely refurbished and decorated," explained Jones.

The renovated office spaces at O'Keefe are beige with rust trim and brown carpeting. Colorful modular furnishings form the divisions for the offices. The second floor also in-

cludes suites for lab directors, a conference room and a library.

Jones says the completion of the first 1½ floors marks the conclusion of Phase I of a total \$2.5 million rennovation plan for O'Keefe. Within a year, the building will house approximately 175 Station employees.

CSTL & ETL Will Merge Into One Laboratory

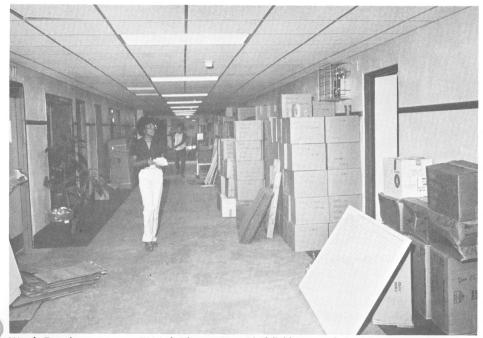
The Computer Science and Technology Lab (CSTL) and the Electronics Technology Lab (ETL) will be merged in the near future into a new, as yet unnamed laboratory, according to EES Director **Don Grace.**

"These two laboratories are being merged because they share areas of complementary interest," said Grace. "By combining the two labs, we will be creating a more growth-oriented organization that is comparable in size to the other four electronics laboratories within EES."

A task force has been appointed to study the organizational and administrative details of the new laboratory. Chaired by ETL Director Doug Robertson, the task force also includes John Passafiume and John Scoville of CSTL plus Fred Cain and Richard Moss of ETL.

The task force is charged with collecting data and making recommendations on the reorganization to Grace and **Jim Wiltse**, EES associate director of electronics, by October 15, 1980. Input to the task force is invited from all interested EES personnel.

(Continued On Page 2)



Wanda Dennis, secretary to TAL Lab Director Jerry Birchfield, surveys boxes of materials which were moved to O'Keefe from TAL's former offices in the C&S Bank Building.



OCA Director Edward E. Renfro.

Renfro Resigns, Dean Subs At OCA

Edward E. ("Ren") Renfro, director of the Office of Contract Administration, left Georgia Tech on August 31 to become assistant to the vice president for nuclear operations at the Florida Power Nuclear Operations Center in Crystal River, Fla.

Renfro served as director of OCA for the past five and one half years. A principal business and administrative manager of Tech's research programs, he also served as assistant secretary and treasurer of the Georgia Tech Research Institute.

Howard Dean, associate director of EES, has been appointed to head OCA until a new director has been found. In the interim period, Bill Ward, director of EES services, is assuming many of Dean's former day-to-day duties. EES Director Don Grace says that Dean still has full responsibility and authority over all of his areas. However, since the majority of Dean's time is now devoted to OCA, Ward should be contacted first on all business matters.

A search committee is actively screening candidates with the hope of finding a replacement for Renfro by late November, 1980.

Lab Merger, Cont.

A search committee which had been formed to find a replacement for retiring ETL Director Doug Robertson also has broadened its scope. A search is now well underway for a new lab director with technical interests in research areas pertaining to both CSTL and ETL.

Presentations and Publications H

COMPUTER SCIENCE & TECHNOLOGY LAB

John Passafiume and Fred Cox coordinated a July continuing education course at Georgia Tech called "Ada Education for Technical Managers."

CSTL was well-represented in the July 4 Peachtree Road Race. John Passafiume, John Doss, Griff Jay, David Millard and Ed Shanahan received t-shirts for completing the run.

Jerry Jackson, chief of EDL's Applied Research Division, led a continuing education course at Tech in July on "Energy Demand Modeling."

Tze Chaing and Bob Collins have coauthored a booklet on the economic aspects of ethanol production for gasohol. The paper is entitled "Fuel Alcohol Production in Georgia, A Preliminary Study." The 35-page booklet is available to the public.

On July 24-25, Nick Gibson directed a continuing education course on

"Energy Conservation through ec

Planning and Design."

Two articles by **Judi Komaki** ha

Two articles by Judi Komaki have been recently published in professional mag azines. "Behavioral Measurement in Business, Industry and Government' was published in "Behavioral Assess ment" magazine. The "Journal of Applied Psychology" published "Effect of Training and Feedback: A Component Analysis of A Behavioral Safet Program."

Lab Director **David Clifton** has received his Ph.D. in Economics from Georgia State University. Clifton wa congratulated by his coworkers at the first annual EDL Spring Picnic held a O'Keefe Field.

ELECTROMAGNETICS LAB

Dennis Kozakoff served as general chairman of the Fifteenth Symposium on Electromagnetic Windows. Held a Tech on June 18-20, the meeting was attended by 150-200 electronics expert from the U.S. and other countries.

Sponsored Contracts Stimulate

CHEMICAL & MATERIAL SCIENCES LAB

J. L. Brown, Metallurgical Tests and Studies, Tennessee Valley Authority, \$20,000.

J. N. Harris, Evaluation of Shell Molds for Forming Precision Slip-Cast Sineterable Silicon Carbide Shapes, Carborundum Co., \$6,666.

P. H. Butler, Feasibility Study of Energy Conversion System for Waste Products Utilization, Southwire Company, \$21,074.

COMPUTER SCIENCE & TECHNOLOGY LAB

S. B. Warner, Energy Monitoring and Control Systems Training Aids Simulator, U.S. Army Engineer Division, \$9,350.

H. B. Teates, Advance Information Systems (AIS) Concepts Research Project, MERADCOM, \$50,101. ELECTROMAGNETICS LAB

J. A. Gagliano, Ice/Frost Detection Using Millimeter Wave Radiometry, NASA, \$36,137. C. E. Barnett, Simulation System Integration and Development, RDF-15, U.S. Army Missile Command, \$125,535.

R. A. Bohlander, & R. W. McMillan, A Study of Propagation of NMMW Radiation Through Clear Air and Fog, U.S. Army Research Office, \$199,978.

A. R. Ravishankara, A Study of the Reaction of OH with C10, Chemical Manufacturers Assoc., \$43,007.

T. P. Lang, Jr., Low Energy Experiment to Measure a Weak Coupling of the Neutrino Current, National Science Foundation, \$127,535.

ELECTRONICS TECHNOLOGY LAB

J. C. Toler, Fabrication of a Radiofrequency Radiation Facility, Southeastern Center for Electrical Enginnering Education, \$137,014.

ENERGY RESEARCH LAB

T. B. Elfe, Engineering Services for Advanced Oil Recovery Component Testing, ADVANCO Corp., \$2,500.

A. T. Sales, Alternate Tasks on Solar Sizing Technique and Econd

ighlight Summer

SEMS ENGINEERING LAB

Special Libraries Association Convention held in Washington, D.C. on June 6-9.

TECHNOLOGY APPLICATIONS LAB

"Wood As An Alternative Fuel," a paper coauthored by Jerry Birchfield, Bill Bulpitt and Carol Aton, was recently published by the American Society of Mechanical Engineers.

Larry Banta, Conservation Technology Group, recently spoke to the Georgia Marble Association and conducted an Energy Management Workshop for the Georgia Mineral Processing Industries.

TAL Engineers Tom Putman, Norris Garmon and Gary Richardson conducted a Boiler Efficiency Workshop in Chattanooga, Tenn. in late June.

Jerry Birchfield, lab director, was one of several TAL engineers involved in a July 21-22 short course at Tech on "Gasohol Production Technologies."



Jim Ussailis (left) and Jerome Callahan (center) accept the 1979 RAIL Buoy Award after an afternoon of ribbing from their co-workers. Gene Martin (right) received an honorable mention for his adventures during a field operation in Aberdeen, Maryland.

RAIL Presents 1979 Buoy Award

On July 11, the third annual RAIL "Tethered Buoy Award" was presented to co-winners **Jim Ussailis** and

Jerome Callahan before an appreciative gathering at the Cobb County Research Facility.

The Buoy Award recognizes the "outstanding" performances of RAIL personnel in a field operation successfully undertaken in spite of overwhelming adversity.

Ussailis and Callahan were selected for the 1979 Buoy Award for their "expert coordination" of automatic direction finding experiments performed at the Stage II Research Tower in Panama City, Fla.

"Ussailis" well-acknowledged prowess in transferring equipment between two boats has become legendary among Navy personnel," said Master of Ceremonies **Bob Trebits**.

"Callahan earned an equal share of the coveted award for his technical ability in repeatedly trying to tie and untie a cable in 60 feet of rough water," added Trebits.

An honorable mention also was presented to **Gene Martin** for his illustrious adventures during a field operation in Aberdeen, Maryland where he and his crew had to run the 400 meter sprint to answer the nearest telephone.

Special awards for 1979 also were presented to Lab Director Ed Reedy, Jerry Eaves and Neal Alexander.

New Research In Station Labs

Analysis for Units SB-8 & SB-9, Georgia Dept. of Education, \$2,500.

ENGINEERING EXTENSION LAB

P. W. Potts, Feasibility of Local Manufacture of the AID Hand Pump in Sri Lanka, Agency for International Development Mission to Sri Lanka, \$199,860.

D. Poss, Product Development Technical Assistance for Hoover Universal, Inc., \$1,500.

RADAR & INSTRUMENTATION LAB

B. H. Hudson, Target Detection Unit (TDU) Advanced Development Model (ADM) Tests Support, Naval Coastal Systems Center, \$44,965.

B. C. Appling, Fire Control Computer Program (Tasks I & II) Kollmorgen Corporation, \$31,000.

J. C. Butterworth, 95 GHz EIO Modulator, Boeing Co., \$37,424.

S. P. Stuk, Data Acquisition & Real Time Analysis Techniques, Naval Coastal Systems Center, \$62,971.

B. Rakes, Evaluation of a Modifi-

cation to a Periscope Antenna, Naval Regional Contracting Office Detachment, \$4,899.

E. F. Greneker, Development of a Video Tape Training Course on the Error Sources Produced by Law Enforcement Speed Timing Radars, Dept. of Transportation, \$30,797.

SYSTEMS ENGINEERING LAB

R. J. Wohlers, Analytic Development of a Passive IFF System, Naval Air Development Center, \$49,979.

G. H. Lunsford, Analysis of F-15 Avionics Test Stations, Southeastern Center for Electrical Engineering Education, \$53,578.

A. J. Chimera, Risk Reduction Program Georgia Tech Tasking, USAF/AFSC, \$175,000.

TECHNOLOGY APPLICATIONS LAB

J. L. Clark, Feasibility Study for City of Atlanta, City of Atlanta, \$8,430.

W. G. Moran, Intergovernmental Personnel Assignment — Robin E. Farrow, U.S. DOE, \$27,115.

Personnel Changes Active In August

CHEMICAL & MATERIAL SCIENCES LAB

John Goodrum, senior research engineer, has resigned and is now teaching at the University of Georgia, Athens. Research Engineer Dalip Sondhi has left EES and is currently pursuing a career with Exxon in Baytown, Texas.

COMPUTER SCIENCE & TECHNOLOGY LAB

CSTL welcomes James P. Coleman, Jr., research scientist II, to the Command and Control Support Branch. **ELECTROMAGNETICS LAB**

James McSheehy, research scientist I, has joined the Radiation Systems Division. EML also welcomes Mary Ella Harris, administrative secretary, and Amelia F. Welch, administrative coordinator.

ENERGY RESEARCH LAB

John Owen, research scientist II has returned to ERL's Solar Research Branch after working with DDR International in Atlanta. Rick Steenblik, a recent Tech graduate, has joined the Solar Research Branch as a research engineer I.

RADAR & INSTRUMENTATION LAB

Trent Farill, senior research engineer, has moved from Virginia to join RAIL. Farill previously worked with the Systems Planning Corporation in Arlington, Virginia.

RAIL also welcomes: Jerry Purvis, research scientist I; Walter Horne, research engineer I; Mark Corbin, research scientist I; Deborah Newton, research scientist I and James Smith, research scientist I.

SYSTEMS AND TECHNIQUES LAB

STL welcomes **Gene Toph**, research engineer I, to the Defense Electronics Division.

TECHNOLOGY APPLICATIONS LAB

Bill Moran, chief of the Energy Conservation Division, left EES in August for an energy management position at Exxon's corporate head-quarters in Florham Park, N.J. Moran also headed the Industrial Engineering Extension Service during his three years with EES.

Ken Maddox has joined TAL as associate lab director. A senior research associate, Maddox will serve

as acting chief of the Energy Conservation Division. He formerly worked with Development Science, Inc. in Sagamore, Mass.

The Agricultural Technology Group welcomes **Ed Valentine**, a new research engineer I.

Gary Richardson, research engineer in the Conservation Technology Group, has resigned his position to work with Servidyne in Atlanta.

Correction Noted

In the last issue of **Station News**, we incorrectly reported that **Jerry Lewis** was a senior research engineer. At the time of his death, Lewis was a principal research scientist.

Engineers Attend Radar Symposium

Several EES electronics engineers presented papers in July at the U.S. Army's Annual Radar Symposium. Jim Wiltse, EES associate director for electronics laboratories, also chaired a session during the symposium at West Point in New York.

Five papers were presented at the conference by EES personnel. The papers and authors were: "Detection and Classification of Military Targets by Radar," Jim Echard and Gene Martin (RAIL); "Astar Participation At The Helbat-7 Exercises," Don Irwin and Timothy Vining (RAIL); "An Advanced Development Model of a Low-Cost Radar Signal Processor For Waterborne Intrusion Detection," Nick Currie and Brian Hudson (RAIL), Richard Marucci, Casey Lang and Joseph Jay (CSTL); "Discrimination of Subsurface Radar Targets Using Maximum Entropy Spectral Analysis," William Steinway (RAIL); "Multispectral Millimeter Wave High Resolution Passive Imaging of Armored Vehicles," Margaret Horst (RAIL), Thomas Morton, Joe Newton, Jim Schuchardt and Lance Webb (EML).



John Parker, Facilities Management Dept.

Parker Retires

On June 27, a large gathering of colleagues, friends and relatives attended a luncheon and reception at the Cobb County Research Facility to honor **John Parker** on his retirement from the Station.

At the time of his retirement, Parker was assistant manager of EES' Facilities Management Department. During his 30-year career with Tech, Parker supervised several EES buildings, including the Cobb County Research Facility and the Electronics Research Building.

Anita Hunnicutt organized the luncheon and reception during which Parker received an honorary diploma from EES, \$100 for the purchase of a small fishing boat and a beautifully inscribed piece of firewood from President Pettit's home.

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