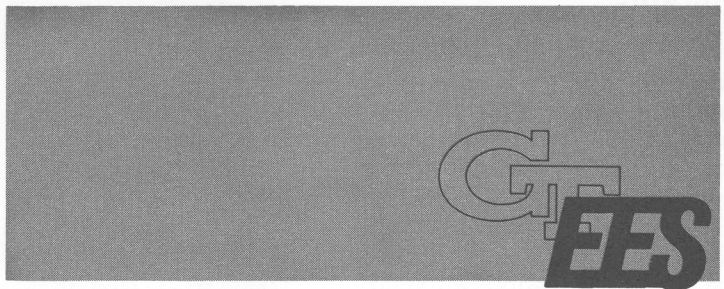


STATION NEWS

ENGINEERING EXPERIMENT STATION • GEORGIA TECH



VOLUME 6 NUMBER 10

NOVEMBER, 1977

New TDL Psychologist Studies People Problems

Judi Komaki, newly of TDL, is a specialist in applied behavior analysis or, more simply, an expert in solving people problems through behavior modification.

A member of the two-person Human Resources Group under the Economic Development Division, Judi is part of TDL's new people-oriented contract development program. The new program, which is designed to study worker productivity, comes in response to queries from industry concerning the need for help with personnel and management problems.

Judi's role in the new program will be initiating research projects in human resource management and helping companies devise better ways to handle their working force.

The behavioral approach, Judi's speciality, is a method which any company or small shop can use to motivate workers.

By pinpointing areas of trouble or concern and then using a positive motivational approach — what to do rather than what not to do — such things as absenteeism, turnover, and tardiness can be reduced or eliminated. The method is also useful for improving the quantity or quality of work performance.

This is the first time the Engineering Experiment Station has specifically formed a group to do research on the human aspects of systems and according to **Lee Burks**, head of the Human Resources Group, the program has generated considerable interest from both the business and academic communities.



Judi Komaki, TDL psychologist, will assist in people problems in business and industry.

The HRG is currently involved in studies on absenteeism in the poultry industry, customer service for a national retail sales organization, the development of a behavioral approach to occupational health and safety practices and the psychological aspects of learning to fly, an Air Force project.

Judi, who started to work August 1, grew up in Los Angeles, received her Bachelor of Arts degree in psychology from the University of Southern California and her master's degree and PhD, from the University of Illinois at Champaign-Urbana.

Currently a senior research scientist for TDL, Judi has taught at San Jose State University in California, Georgia Tech and Emory.

She is the author of numerous articles on the behavior analysis approach and is co-authoring a book on the subject with her husband, Dr. Milton Blood, an associate professor in Tech's Industrial Management School.

Tech Students Visit EES Electronics Research

Approximately 100 Electrical Engineering students visited EES's Electronics Research Building October 24. Ongoing research in four representative areas was demonstrated to the students who are members of Professor M. F. Moad's "Introduction to Electrical Engineering" class. Staff members of ETL, STL and RAIL provided briefings and demonstrations related to near field electromagnetic measurements, mini-computer graphics, citizen-band radio aids and heart pacemaker electromagnetic compatibility.

EES Radio Program Continues

Darryl Pierce, news director for WREK, has asked EES to continue the radio program "Georgia Tech's EES Report," aired on WREK, 91.1 FM, every Tuesday and Thursday at 5:30 PM. Georgia Tech students from WREK who are assisting **Sharon Sebal** with the program are: **Craig Davis**, production; **Fred Hybart** (station manager), distribution of tapes to other sources for possible publicity; and **Ken Murphy**, duplication of tapes.

Current program features include: **Steve Bomar**, **Gary Kelly**, **Rudy Yobs**, **Grant Curtis**, **Bill Studstill**, **Jack Spurlock**, **Jim Toler**, **Doug Davis**, **Jim Lowry**, **Bob Zimmer**, **Jim Metcalf** and **Ross Hammond**.

Anyone with projects or suggestions for the program, call the P&I Office, x3405.

Office of International Programs

The Office of International Programs will conduct a three-week industrial extension training program November 6-26 for two counterpart institution personnel: Sothenes Buatsi of the Technology Consultancy Centre in Ghana and Teodulo C. Gotico of the University of the Philippines Institute for Small-Scale Industries' (UP-ISSI) Pilot Extension Office. After a week of classroom lecture and discussion, the participants will spend a week at the Augusta Area Office of EES observing technical assistance activity in the field. The final week will include visits to Atlanta area industries in industrial sectors in which the visitors have a particular interest. The training, sponsored by the Agency for International Development under its Small Industry Grant Program, is designed to give the participants experience in "greasy-fingered industrial problem solving."

Don Lodge and **Edwina Udunka** will visit UP-ISSI (Philippines) and Soong Jun University (Korea) in November, under the AID Small Industry Grant Program, to provide consultation and training and to conduct audiovisual documentation of project progress.

Nelson Wall will report on marketing studies for farm machinery in Bangladesh, Pakistan and Thailand at the International Rice Research Institute's International Machinery Workshop November 2-5 in Los Banos, Philippines.

Rosana Jogle is **Harlan Davis'** new secretary, replacing **Judy Cadman**.

Francisco J. Malvar joined the IPO staff effective November 7 as a research engineer. An electrical engineer who has done work toward the MBA, he has been employed since 1973 by the Florida Power and Light Co. in Miami.

Martha Ann Stegar recently sang in the choruses for two productions at the Fox Theatre: "La Boheme" with the Atlanta Lyric Opera Co. and "Carmina Burana" with the Choral Guild of Atlanta and the Atlanta Ballet.

EES Services

Tom Hicks is a new stores clerk in the EES Warehouse. Mechanical Services also has a new employee, **Jimmy Faulkner**, who is a machinist. **Betty Yarborough** attended the Seminar on Communication and Interviewing Skills held at Clemson University on October 5.

Credit Union

All applications to the Credit Union from EES employees should be routed through the Reports & Procedures Department for employment verification.

ASL

Jack Spurlock attended the American Astronautical Society meeting in San Francisco October 18-21 and presented a paper entitled "Technology Requirements for Closed-Ecology Life Support Systems Applicable to Space Habitats." While in California, he also attended program development meetings at EPRI and a technical review meeting at NASA Ames.

On Friday, October 28th, the Overview Committee for EEAD project "Systems-Integration Requirements for Co-Siting of Industrial Activities" met with Co-Principal Investigators **Jack Spurlock**, ASL, and **Henderson Ward**, Ch.E., and project members **Jude Sommerfeld**, Ch.E., **Anita Fey**, EEAD, and **Dalip Sondhi**, EEAD. Meeting for the first time on the NSF-funded project, the committee includes R. L. Cowles, Department of Energy; N. W. Hallman, Universal Oil Products; Vic Jelen, EPA; R. B. McBride, Union Carbide; M. A. Potterf, Appalachian Regional Commission; John Pratt, Shell Oil; and Seth Tuttle, NSF Sponsor. Topics discussed at the meeting included: feedstock and fuel alternatives; energy consumption and conservation; land use, site selection and environmental constraints; and project methodology.

Charlie Rucker of SSSD made a trip to Dallas, Texas, on October 20th and 21st to attend a MIT/Adcom meeting.

P & I Office

Jim Donovan (Colonel, USMC, Ret.) recently had an article on Presidential war powers entitled "It is difficult to make a proper blending of the President's control of the military with the power of Congress to declare war" published in the September issue of *The Marine Corps Gazette*, the officer's professional magazine. Jim is on the Board of Advisors of the Center for Defense Information, Washington, D.C.

EML

J. Hank Rainwater EES/EML, recently had an article entitled, "Weather Affects Millimeter Wave Missile Guidance Systems," published in *Microwaves*, Vol. 16, No. 9, September, 1977.

EES Christmas Party

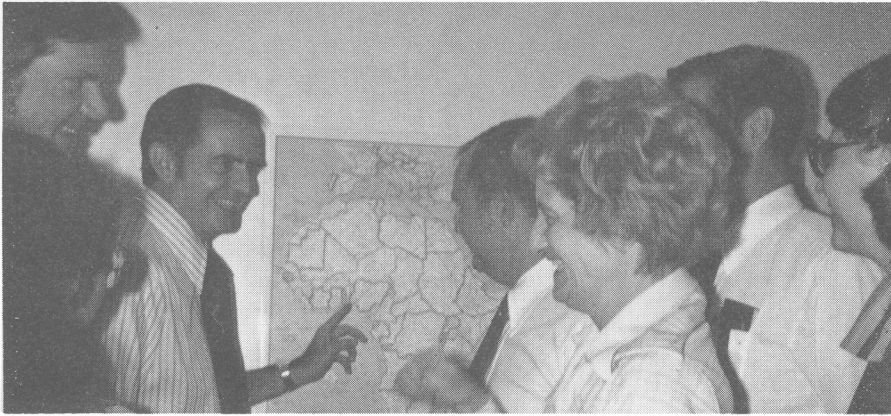
Everyone in EES is invited to the traditional EES Christmas Party to be at the C&S 19th floor from 2:00 to 4:00 on a to-be-announced date before Christmas vacation. (Probably 22 or 23 December.)

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"Now, class, we shall have a high-powered lesson in geography," quips **J.D. Walton** as some of the SEMTD group welcome him back from his jaunt to Africa. L to R: **Genoveva Cruz**, **Ralph Altman**, **J.D. Walton**, **Steve Bomar**, **Jean Williams**, **Joe Harris** and **Debbie Rowlett**. Attending the annual meeting of COMPLES (Cooperation Mediterraneene Pour L'Energie Solaire) in Tunisia, J.D. presented technical papers and reviewed solar energy activities in the United States. Also during October, he visited Algeria, Egypt, Nigeria, Niger, Mali and Senegal to discuss solar energy applications.

RAIL

RAIL welcomes the following new employees:

William Baird, a research scientist, from Augusta, Ga, whose hobbies include amateur radio.

M. Hakim and **L. Hughes**, both graduate research assistants.

Carol Hollins, who recently started work for **Fred Dyer**. Carol replaces **Ginny Gross** who has transferred to TDL.

Sheila Willis, who has replaced **Lee Jansen**, started work for **Bill Licata** at the end of October. Sheila has a BA in English.

Pat Toomey has taken over **Mary Margaret Evans'** job, working for **Don Sanford**. Mary Margaret is now working for **Gene Nordby**.

Other News

Gene Greneker went to Washington, D.C., in November to brief the U.S. Customs Service of the next nine months' efforts of project A-1908. The goals of this project are to analyze and assess customs' use of radar in the continuing battle to seal the United States' border against airborne smugglers.

Numerous RAIL professionals

participated in the "Principles of Modern Radar" short course in October. More people attended the course than ever before, and it was considered a rousing success.

Jerry Eaves and **Jim Scheer** visited Eglin Air Force Base in October to participate in a "shouting match" with MIT Lincoln Labs concerning a millimeter test program.

Bob Trebits has transferred from the Experiment Branch (have radar, will travel) to the Analysis Branch (paper mill). According to Bob, his only misgiving is the fact that his new office has a northern exposure which will upset all his plants.

Systems Eng. Div.

Bob Zimmer and **Lloyd Lilly** attended the Association of Old Crows National Convention in Washington, D.C., October 24-27. Bob also attended a meeting of AOC Club presidents.

Rick Thomas, selected to attend the conference by the Professional Development Committee, will be attending the COMPSAC '77 (Computer Software and Applications) Conference in Chicago November 7-11. The COMPSAC '77 Conference is sponsored by IEEE.

The SED gained two new employees in September. **Shawn Windon** transferred from RAIL to the Systems Technology Branch. **Andy Lipscomb**, who previously had been with T&DL as a graduate research assistant, has joined the Defense Systems Branch as an assistant research scientist.

George Lawrence of the NASA Langley Research Center visited the Systems Engineering Division October 25-27. The project team on

"Benefit Assessment of Pollution Monitoring Satellites," briefed Mr. Lawrence on their progress. The project team includes **Peter Sassone** (IM), **Ted Williams** (IM), **Frank Gramling** and **John Wood**.

STL News

Injured in an auto accident early in October were **Deborah J. Fuller**, secretary of **R.A. Moore**, Acting Chief of Systems Development Division, and **Rhonda J. Yearwood**, secretary of **Bill Dittman**, Head of Mechanical Development Branch (SDD). Deborah has returned to work, but Rhonda, who has a pin and a cast on her leg, is recuperating at her parents' home in Toccoa, Ga.

S&TL Farewell Foolery

On 28 October, nearly 100 friends and S&TL fellow workers gathered at the Red Roof Restaurant for a farewell luncheon for **Jim Cofer** and **Carl Griffin**. The traditional "diplomas" were presented to the two: Jim's designated in Practical Jokery, an art in which his capability is legend, and Carl's in Obsolete Technology since he is one of EES's few experts on vacuum tubes.

In addition, Jim received from **Ed Reedy** a genuine Georgia Tech parking ticket for fines totaling \$205 with a notation that the amount would be deducted from his last check. (This was in remembrance of a bogus ticket that appeared on Ed's car during his first week at Tech.) Jim was also presented a special "diploma" to commemorate a power divider he designed whose output exceeded the power input, **Neal Alexander**, who had been the recipient of many of Jim's jokes over the years, presented Jim an emergency kit to take to Florida that contained such items as sun lotion for his family, a large can of insect repellent, no-doz pills for night work, a snake bite kit, a bottle of shark repellent and some confetti that ended up on Jim's head.

Carl was given as a memento appropriate to his diploma: an antique switch of about 1890 vintage. In return, Carl bestowed upon **Bob Goodman**, director of S&TL, a large picture of a very weary and mean-looking cowboy saying, "There were a helluva lot of things they didn't tell me when I hired on with this outfit!"

TDL

TDL's Energy and Engineering Division (EED) regrets to announce this month the departure of two of the Systems Research Branch's senior team members.

John Dawkins, research engineer, and **Jim Lowry**, head of the Systems Research Branch (SRB), terminated employment with EES effective October 31 in order to make their living in the business world.

John, who was hired shortly after Jim in '75, is the co-owner of an engineering consulting firm in Atlanta, Applied Energy Sciences, Inc., and will be working fulltime as vice-president of the firm.

Jim, who started to work with TDL in the spring of '75, has accepted a position with Booz-Allen Applied Research in Bethesda, MD. Jim will be helping the management consulting firm develop industrial energy conservation programs for government agencies and private industry.

TDL wishes both gentlemen the best of luck in their future pursuits.

Rick Wright, senior research engineer in the Systems Research Branch, has replaced Jim as branch head.

There have also been secretarial changes in the SRB. **Pat Toomey** has returned to ERB where she will be secretary for **Don Sanford** in RAIL. **Ginny Gross**, recently of ERB, has replaced Pat as **Rick Wright's** secretary.

Other new personnel at TDL include **Jim Mueller**, **Tom Loggins** and **Bill Bulpitt**. Jim, who is from North Carolina, will be working for **Hardy Taylor's** Industrial Services Group of EDD.

Tom, a forester with the Georgia Forestry Commission, is working with Tech and the Appalachian Regional Commission studying the feasibility of using Georgia's low-grade hardwoods for energy.

Bill, who is working for Rick Wright's SRB, will also be studying wood as an energy source.

Also new to TDL is **Philip D. Loveless**. Phil is filling the vacancy left by **Ed Lewis** in the Industrial Extension Division's Douglas office. Ed was transferred to Albany to fill the vacancy left by **Bill Studstill**. Bill is currently head of the SRB's Energy Conservation Branch.

Another personnel change at the



"Well, Nick, back to the drawing board."

IED is the addition of **Peggy Zabriski**. Peggy transferred from Tech's OCA to act as part-time secretary for IED's Macon office under **Bill Craig**.

TDL people at meetings

Economic Development Division

Ed Bethea presented a progress report on his regional OMBE project in Jekyll Island on October 20.

Bob Collier attended the Annual Conference of the National Association of Development Organizations, October 2-5, in Corpus Christi, TX. While at the conference Bob served as a subcommittee chairman of the committee on Balanced National Growth and Economic Development Policy. The policy development committee developed a position paper which was forwarded to the Director of the White House Conference on Balanced National Growth and Economic Development which will be held in Washington, January 29-February 2.

Robert Cassell and **George Dodson** traveled to Baraboo, WI, to conduct a community development seminar for the Sauk County Economic Development Corporation.

Robert Cassell also attended the Annual Southeastern Industrial Development Council conference in Baton Rouge where he was re-elected executive director. Accompanying Bob on the trip was his secretary **Ila Benson**, who returned home toting a new canoe she won while in Louisiana. (But no paddle?)

Energy and Engineering Division—

Rich Combes, **John Dawkins** and **Jerry Birchfield** attended the October meeting of the Carpet and

Rug Institute (CRI) in Destin, Florida. Jerry presented a talk on TDL's state energy conservation plan.

Randy Mattison flew to New York, October 12-14, to participate in a seminar at New York University on Wastewater Reuse and Recycling. Randy is working on the USDA poultry project studying wastewater treatment.

Industrial Extension Division—

People from IED who attended the Georgia Industrial Developers Association (GIDA) annual meeting in Savannah, October 26-28: **Ben James**, **Eric Berg**, **Lynn Tessner**, **Ray Junk**, **Kay Powell**, **Bill Craig**, **Bill Darley**, **Larry Edens**, **Sherman Dudley** and **Phil Loveless**.

ETL

Army personnel of the 313th EW Battalion visited CTG for an operational assessment of the An/TRQ-23 Intercept/DF system. Results will be provided to the commanding officer.

R. W. Wallace, CTG, was at NASA Lewis on October 25 along with SED personnel to participate in a briefing of final technical results of a study of millimeter wave satellite concepts.

S. L. Robinette and **R. W. Wallace** visited Macon's Mayor "Buck" Melton, to discuss a possible study of Macon's telecommunications needs.

Bill Free and **Don Clark**, EMC Group, attended the Second Electromagnetic Susceptibility Seminar and Workshop held in St. Louis on October 19-20.

Alice Miller, secretary to **Richard Moss**, is recuperating at home from an illness. She should be back to work in a week or so.

Betty Lenoir

We were deeply saddened by the loss of **Betty Lenoir**, who died on October 2. Betty was secretary to NRC Director **Monte Davis** and wife of S. P. Lenoir, associate director of the Computer Center. Betty's many friends at Georgia Tech will miss her.