

STATION NEWS

ENGINEERING EXPERIMENT STATION • GEORGIA TECH



VOLUME 5 NUMBER 1

FEBRUARY, 1976

ABOUs to Bomar and Atcheson



Bob Ingols, 1974 ABOU winner makes awards to Billy Atcheson and Steve Bomar, 1975 winners.

**Steve Bomar and
Billy Atcheson
1975 ABOU Winners
at Xmas Party**

Steve Bomar CITATION

While serving as a member of the Applied Sciences Laboratory's program development team, he made EES's first productive contact with NSF in the area of solar electrical power by emphasizing our experience at the CNRS Solar Furnace. This led to the teaming of Georgia Tech and the Martin Marietta Corporation for the design, construction and testing of the first American solar steam boiler and subsequently to Georgia Tech's participation with

Martin Marietta, Foster-Wheeler and Bechtel Corporation on a major solar power plant design effort sponsored by ERDA. He was also asked by ERDA to serve on an advisory committee for siting of the United States 5 MW Solar Test Facility. This led Dr. Steve Bomar into the valley of monumental pressures from customers and home folks. For example, during J. D. Walton's current extended leave, Steve has assumed the leading role as coordinator with Martin Marietta, CNRS, ERDA, Sandia, and other organizations in the field of solar energy. On top of this the French solar furnace people insisted on his participation in a series of tests conducted in France in November

and December 1975, because they considered him to be the person most qualified to speak for the United States in technical matters associated with the solar steam boiler program. He was away from home so much that he had to reestablish who he was to his family.

Billy Atcheson

CITATION

This year's Abou winner is the Station's active, A-number one, accurate, assiduous, analytical, aggressive, and amiable accountant. This abacus-wielding authority on arithmetic science has abundant need for Abou's protective powers during the coming year for this past year has seen him endure the most extreme suffering for the cause of research at EES. Not only has he been exposed to the usual assaults of auditors, administrators and overspent projects, he has had to rework the entire Station budget 63 times with another 39 revisions due before the end of the fiscal year.

However this authentic adder of assets has approximately maintained his aplomb in the face of adversity with the aid and comfort of Betty Yarborough, daily doses of eggs and grits from the Silver Skillet and 14 games of golf each week. So to Bill Atcheson goes the 1975 Abou award.

ASD

New members of the Advanced Sensors Division Staff are Ms. Margaret Horst, Ms. Kathy McMilliam, Mr. John Barkshodt and Mr. Ralph Hoover.

Christmas Party Big Success

The annual EES Christmas Party on December 19th in the Baker Building Auditorium was the biggest ever. Some 300 staff and friends turned out to enjoy the good food and "Research Punch."

The room was decorated in the Xmas spirit thanks to the fine efforts of Jerry Webb of EDL, and Mary Lupton of ASL outdid herself this year with food and snacks. Many of the attractive dishes were prepared by individuals on the staff who contributed examples of their favorite hors d'oeuvres.

Mary Lupton wants to express her special thanks to all the people who helped prepare the food and tables, and particularly the men who brought some choice dishes.

Your Party Committee is already filing plans for the 1976 party which will be even better. Happy New Year.

New Projects

Johns Hopkins University to STL (J. W. Cofer) for rapid scan antenna study — Olin Corporation to ASL (J. L. Brown) for scanning microscopy of paper samples — Systems in Education and Training to EDL (H. S. Taylor) for technical assistance — Eglin Air Force Base to STL (R. A. Moore) for C-band antenna work — Medical Research Foundation to NRC (M. V. Davis) for radioactive Yttrium loaded microspheres — Exxon to ASL (J. L. Brown) for electron microprobe analysis — Agency for International Development to EDL (R. Johnston) for evaluation of national technical information service — GA. Electric Membership Corp. to EDL (R. B. Cassell) for assistance on industrial development problems — Goddard Space Flight Center to EML (R. B. Blue) for permittivity of sea water at millimeter wavelengths — Engelhard Minerals Corp. to ASL (J. L. Brown) for SEM and quantimet analysis of samples — Southern Research Institute to ASL (J. L. Brown) for electron microscopy and microprobe analysis of samples — Robins AFB to ETL (B. M. Jenkins) for "Analysis of Electromagnetic Environments in Avionic System Maintenance Facilities."

News Bits

Welcome to new employee Hazel Gaines of the Support Services Division of OCA.

Welcome back to Marvin Gaway of the Photo Lab who has been in the hospital.

We have a new citizen in this Bicentennial Year. Maggi Rampling, the receptionist in the Baker Building Lobby, became a U.S. citizen January 13. Congratulations, Maggi.

Welcome to new employee Stephen Havlicek who joined the Applied Sciences Laboratory to work with Dr. Robert Ingols. Dr. Havlicek earned his doctorate in organic chemistry from Wayne State University and previously worked at Campbell Soup Company. His wife Mary holds a doctorate in inorganic chemistry, and they have two young daughters. His hobbies include bowling, fishing, shell collecting, surfing and gardening.

The Personnel Section of the R&P office has moved to Room 117, Baker. There are also two new employees in R&P: Gladys Holmes and Hazel Gibson.

Jim Parker, Storeskeeper for Supply Services, is retiring February 27 after 30 years with EES. He started working in the shop, then transferred to Supply Services in 1951. Jim said he has taken a position with a company in Decatur. Billy Boner of the shop will take Jim's place.

ETL welcomes Ronald W. Wallace from Middletown, MD, as a Research Engineer. Mr. Wallace is a 1963 BEE graduate from Tech, and he received his MSEE from Johns Hopkins University in 1971. He is working in the Communications Technology Group.

EES people on the move

S. H. Bomar, C. T. Brown and C. J. Swafford of SEMTD to Perpignan, France Nov. 20-Dec. 14 to conduct solar receiver tests at the solar furnace... D. W. Covington, ASL, to Washington Nov. 30-Dec. 3 for IEEE Electron Devices Conference... J. W. Tatom, P/TAL delivered a paper at ASME annual meeting in Houston Dec. 3-4.

Applied Engineering Lab

J. C. Toler and E. C. Burdette, AEL, conducted a tour of the EES Biomedical research facilities for 40 Atlanta University students on 5 December. A demonstration of the organ cryopreservation work was given. The Atlanta University students are involved in an exchange program. The visit to Georgia Tech was in connection with their orientation to the Tech campus.

W. E. Sears, III and Larry D. Holland participated in the Automated Air Traffic Control and Landing System Symposium which was held at the Flight Transportation Lab at MIT from January 19 to 22. Sears served as Session Chairman for the Automated Landing Systems-Theory portion of the symposium, and presented a paper, "Effects of Quantization on Beam Pointing and Sidelobes." Holland also presented a paper, "An Implementation of Pseudo ILS."

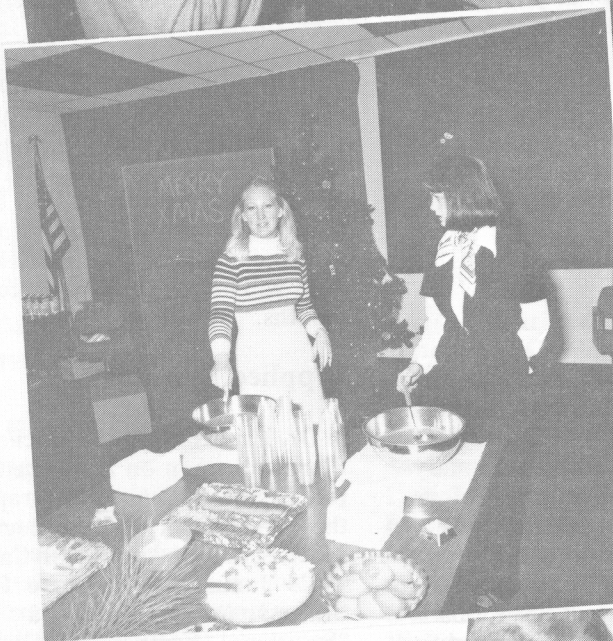
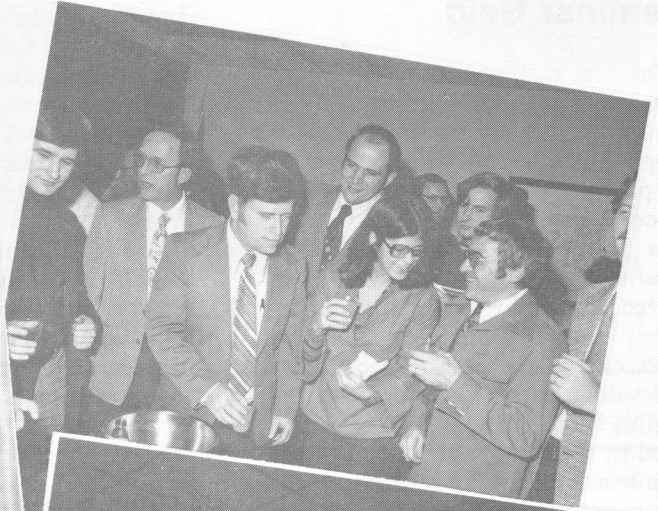
Jerry Heckman recently visited the Army Foreign Science Technology Center at Charlottesville, Virginia to discuss a new research and development study of foreign surface acoustic wave devices.

Thomas B. Priest, Jr. has joined the Systems Engineering Division of AEL as a Systems Analyst. He came from the Office of Computing Services at Tech. Also, Dr. James A. Fuller has joined the Electromagnetic Effectiveness Division of AEL as a Senior Research Engineer. Dr. Fuller came to Georgia Tech from Texas Instruments in Dallas, Texas.

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CHRISTMAS PARTY -



1975

Co-Siting Seminar Held

Dr. Jack Spurlock of ASL's Energy and Environmental Analysis Division held a seminar for about 30 people January 20 on a project studying potential benefits from synergistic co-siting of industrial activities. This is a plan to locate mutually beneficial industrial plants and other related activities together to achieve energy conservation, economic benefits, effective land use and economic development of the Appalachian Region being studied. This is being aided by a computer selection procedure which tells what a region needs in new industries, what industries currently exist there and what industries would be compatible for co-siting. The objective of this seminar was to determine what additional tools planners need to start working on the initiatives and incentives for co-siting to become a reality.

Preliminary work has selected industries for co-siting such as waste processing, stack-gas effluent-removal processes, waste water treatment, fertilizer chemicals, coal conversion, and primary and intermediate inorganic and organic chemical manufacturing processes. Initially, sets of paired processes or activities are being studied; later, possible groupings of larger numbers of plants will be identified and evaluated. Criteria used in judging plant compatibility include capacity, technological developments or design changes necessary and other operating requirements and potential problems.

Now that the concept of synergistic co-siting has been introduced to a group of potential users, feedback generated from the seminar will be incorporated into the next stages of investigation on the project.

Radar Applications Div.

Dr. E. K. Reedy, Chief of RAD, S and T Lab, visited Motorola in Phoenix, Arizona on January 28 and General Dynamics in San Diego, California on January 29 where he discussed technology which can be used in the Moving Target Locator Radar Studies for the Army Electronics Command.

Dr. Reedy and Jerry Eaves visited the USAECOM in Ft. Monmouth, New Jersey on January 14 to give a briefing on technical directions for the new project A-1800.

Frank Williamson was at the Yuma Proving Grounds, Arizona on January 16-20 to initiate the field test support of the Marine Corps Hostile Weapon Locating Radar system. This work is being done for the Naval Electronics System Command. EES will have personnel at the Yuma Proving Grounds during the next several weeks.

Good luck to Fred C. Apple from NRC as he takes on a new challenge with SEMTD.

Congratulations to Rebecca Long who recently graduated from Georgia Tech with a M.S. in nuclear engineering. Becky has been working as Student Assistant to Dr. Davis. Becky will be leaving NRC sometime in March to begin her new job with B & W.

B. Wettlaufer Marries

Bonnee Wettlaufer of the Publications Office will be married on Saturday, 21 February, to Mr. Thomas E. Sides at the Westminster Presbyterian Church in Atlanta. Following a short honeymoon the Sides will make their residence in Stone Mountain, Georgia. Bonnee will also leave her position at EES where her many friends wish her happy days ahead.

EDL News

Ross Hammond, EDL Director, attended the Mid-Winter Meeting of the International Division of the American Society for Engineering Education in New Orleans January 21-23, as well as a meeting of its Executive Committee, of which he is a member. Mr. Hammond has just completed a term as Chairman of the Honors and Awards Review Board of the American Institute of Industrial Engineers.

Bob Cassell, EDL, spoke to the Summerville, Ga. Rotary Club January 21 on "New Trends in Industrial Development."

EDL made a presentation to Dr.

B.J. Habibie, Science Advisor to President Suharto of Indonesia, when he visited the Georgia Tech campus January 28. He is on a U.S. tour to review U.S. support capabilities and potentials for implementation of the Indonesian Research Institute for Science and Technology.

Frank Kingsland and Martha Ann Deadmore, EDL, visited the University of Science and Technology in Ghana November 21-28 and the University of Ife in Nigeria November 29-December 5 in connection with projects sponsored by the U.S. Agency for International Development (AID).

Ray Manoff, EDL, is departing for Korea February 9 to provide technical assistance to Soong Jun University in implementation of AID Small Industry Grant activities. He will provide similar assistance to the University of the Philippines Institute for Small-Scale Industries in March.

Ken Stephens and Phil Hess, EDL, are departing February 2 for the Orient to work with the International Rice Research Institute (IRRI) on a project funded by AID. They will be providing technical assistance to Thailand and Pakistan in the development, manufacture and marketing of rice farming equipment similar to the IRRI equipment which was on display in the Baker Building lobby during the months of December and January. After indoctrination at the IRRI headquarters in the Philippines, Stephens will work primarily in Thailand and Hess in Pakistan. They will be gone approximately five months.

Applied Sciences Lab

Dr. Paul Mackie (APB) chaired a Plenary Session on Instrumentation for Tomorrow's Crystallography at the American Crystallographic Meeting in Clemson, South Carolina 18-23 January 1976 where Dr. K. Sudarsanan presented a paper "Structural Features of Oxyphosphomorphite $Pb_{10}(PO_4)_6O$ ", co-authored by Dr. R.A. Young who also attended a conjoint meeting of the USA National Committee for Crystallography.