Hochman Wins 1991 Distinguished Professor Award

By Jackie Nemeth

Dr. Robert F. Hochman, professor in the School of Materials Engineering, won the 1991 Distinguished Professor Award for "sustained achievement in teaching, research and service," Tech President John P. Crecine presented Dr. Hochman the $12,500 award provided by the Class of 1954 at the May 29 Faculty Staff Honors Luncheon.

"It is very gratifying to receive an award like this that wraps up your total career," said Dr. Hochman, who is retiring this year. "This award is a measure of what can be accomplished when you work at an outstanding university and with outstanding people."

Dr. Stephen D. Antolovich, director of the School of Materials Engineering, said Dr. Hochman was the guiding force which initiated the graduate metallurgy program at Georgia Tech. This program, now a fundamental part of the school, grew to recognition as one of the top programs in the USA and was cited 14th of the 83 Material Science and Metallurgy Departments in the 1980 Gorman Report. Dr. Hochman also spearheaded development of the master of science and doctoral programs in metallurgy and has served as thesis director and advisor to more than 50 graduate students and postdoctoral scholars.

His research, mainly involving corrosion, surface modification and biomaterials, is well documented with more than 120 publications of which more than 100 have been in refereed journals or books. He has served as chairman of numerous American Society for Metals, American Society for Testing and Materials, the National Association of Corrosion Engineers and special Georgia Tech sponsored research and research-technology transfer programs. In 1977, he was elected a Fellow of the American Society for Metals and was honored with the Georgia Tech Sigma Xi Research Award for "Continuing Research."

Dr. Hochman came to Georgia Tech in 1969 as an assistant professor. He received his bachelor's, master's and doctorate degrees in metallurgical engineering from the University of Notre Dame.

Dr. Hochman was one of many award recipients at this year's luncheon including Class of 1940 W. Roane Beard Outstanding Teacher Award ($5,000 each); Dr. John L. Wood, associate professor in the School of Physics, and Dr. Donald W. Schafer, Regents' professor in the School of Electrical Engineering; Outstanding Interdisciplinary Activities Award ($5,000 endowment provided by the Class of 1984); Dr. Michael Elliott, assistant professor in the College of Architecture and Outstanding Service Award ($2,000); Dr. J. Aaron Bervand, professor in the School of Chemistry and Biochemistry.

Numerous other awards were also presented during the ceremony.

Opportunity Skyway Atlanta Works On Filling Void In Airline Industry

By Vera L. Dudley

Georgia Tech has been designated the nation's first local affiliate of Opportunity Skyway, a Maryland-based program encouraging minority and disadvantaged youths to pursue careers in aviation and aerospace.

Educators and executives from the aviation field recently endorsed Opportunity Skyway Atlanta at a day-long briefing at Tech's Wardlaw Center. The program will build upon the successful Opportunity Skyway, Inc., model developed and implemented by the Private Industry Council of Prince George's County, Maryland. It is designed to bring aviation to the classroom by providing role-model speakers, films, Federal Aviation Administration (FAA) private pilot ground school instruction and field trips to aviation facilities.

Phase I of Opportunity Skyway begins on July 1, 1991 with a six-week program for 25 rising junior and senior students from George and Grady High Schools. Aviation career-oriented and job-focused instruction will be combined with an FAA-approved Private Pilot Ground School course and an Aviation Careers Exploitation Module.

Chou, Taylor Win 1991 PYI Honors

By Kathy Netzel

Georgia Tech's Dr. Mei-Yin Chou and Dr. David G. Taylor won the 1991 Presidential Young Investigator Awards, given annually by the National Science Foundation (NSF).

As PYI award winners, Dr. Chou and Dr. Taylor may each receive up to $500,000 over five years supporting their research. The PYI award guarantees the first $25,000 per year in base funding from NSF, and then matches on a dollar-for-dollar basis, private support up to $37,500 annually, for a total of $100,000 per year. The awards, which fund research by faculty members near the beginning of their careers, are intended to help universities attract and retain outstanding young Ph.D. scientists who might otherwise pursue non-teaching careers.

Dr. Chou, an assistant professor in the School of Physics, came to Tech in January 1989 following three years of postdoctoral work with the Exxon Research and Engineering Co. Her research in theoretical materials physics focuses on the study of the structural and electronic properties of solids, surfaces and atomic clusters. Through her work, she attempts to explain and predict novel materials properties from first-principles calculations based upon quantum mechanics.

Dr. Taylor, an assistant professor in the School of Electrical Engineering, has been at Tech for three years. His research interests encompass the modeling, analysis, design and control of dynamic systems, specifically electromechanical systems. His theoretical work centers on geometric and asymptotic methods for nonlinear systems, while his experimental investigations include mechanical manipulators, electrical machines and power electronics.
Ronald W. Schafer, Outstanding Teacher Award

While maintaining his commitment to teaching excellence, Dr. Ronald W. Schafer, a 1991 Outstanding Teacher Award winner, has helped build one of the world's premier research groups in digital signal processing. Dr. Schafer is a Regents' professor and John O. McCarty professor in the School of Electrical Engineering.

Dr. Schafer has co-authored three textbooks which have had a great influence on education in the field of digital signal processing, according to Dr. Roger P. Webb, director of the School of Electrical Engineering. Digital Signal Processing, the first textbook in this field, has remained the dominant text since its publication and has been translated into Russian, Chinese, Japanese, Italian and Polish. The text, Digital Signal Processing of Speech Signals, was also the first in this more specialized area and made it possible to offer courses in this subject at many universities including foreign universities where it is used in Russian, Japanese and Chinese editions. His most recent book, Discrete-Time Signal Processing, is an update on the material and pedagogy of Digital Signal Processing.

Dr. Schafer is advising five Ph.D. students, two project students and teaching a required undergraduate class of 86 students. He believes the most important goals of engineering education should be "helping students learn how to think clearly about problem solving and to help them acquire a base of knowledge that will be useful throughout their careers as they face new problems that weren't in their textbooks."

"I hope I push students to think and synthesize what they know in coming up with solutions to problems. I also want students to know that sometimes you simply have to work hard to solve a problem, and persistence is often a major key to success."

John L. Wood, Outstanding Teacher Award

Dr. John L. Wood, associate professor in the School of Physics and recipient of a 1991 Outstanding Teacher Award, adheres to a sort of "Hippocratic Oath" for teaching. According to this pledge, a teacher should:

- serve as an appropriate role model for the student;
- respect the student at all times, never putting the student down or considering any questions as stupid;
- make oneself available to the student, recognizing the importance of one-on-one tutorial opportunities;
- and by one's enthusiasm for a subject remove the student's fear of learning.

In courses ranging from introductory optics and mechanics to graduate-level core courses such as advanced quantum mechanics, students highly praise Dr. Wood's teaching abilities and his willingness to advise and assist them. Steven Jansou, a Ph.D. student in electrical engineering, said Dr. Wood "has pointed out that there is not only one solution to a problem, and exploring other possible solutions provides insight that was not previously possible. He has shown me, by example that hard work and perseverance are necessary attributes to develop for doing advanced research."

Dr. Wood came to Tech in 1972 as a postdoctoral research associate and has served as associate professor since 1985. He has supervised four Ph.D. students who have graduated and currently supervises four others, authored or co-authored over 40 refereed publications and administered research contracts from the Department of Energy for over 12 years.

A sought-after lecturer and collaborator in research institutions around the world, he has served as a visiting professor at Drexel University, Katholieke Universiteit and Peking University. In 1988, he served on the President's ad hoc Reactor Study Group and the Organizing Committee — Symposium on the Research Potential of the Georgia Tech Reactor.

J. Aaron Bertrand, Outstanding Service Award

After almost 30 years of service to Georgia Tech, Professor J. Aaron Bertrand, professor and retired director of the School of Chemistry, is the recipient of the Outstanding Service Award.

Unlike many retirees who fade into the background and do little, Dr. Bertrand has maintained his activities benefiting Georgia Tech. Just last month, Dr. Bertrand gave a Brown Bag Teaching Seminar on "Using the Computer in Teaching." He is currently chairman of Tech's Executive Board, one of three terms of service he has devoted to that group.

In a memo nominating Dr. Bertrand for the award, Dr. E. Kent Barefield, acting director of the School of Chemistry and Biochemistry, said Dr. Bertrand was one of the first among Tech faculty to recognize the value of personal computers and to develop software for research and teaching activities. His software for depicting molecular structures and for calculating structural parameters, according to Dr. Barefield, rivals any that is available commercially. He is now discussing with a publisher the possibility of bundling his software with a popular first year chemistry text.

As the school's director, Dr. Bertrand served the Institute through his service on many committees, but his greatest contributions have been since the end of his directorship. His extensive list of service activities include: Tech's Software Committee; Affirmative Action Task Force (1983-84); chairman on the Committee on Evaluation of Teaching Effectiveness (1983-85); the Presidential Search Advisory Committee (1986-87); search committee for the Associate Vice President for Human Resources (1990); and Tech's 1996 Committee. 
Billie Pendleton-Parker, Administrative Service Award

Billie Pendleton-Parker is this year's recipient of the Administrative Service Award. As assistant director for the Center for the Enhancement of Teaching and Learning (CETL), Ms. Pendleton-Parker works with faculty and students to make Georgia Tech a better place to work, teach and learn, said award presenter Terry Sichta, associate director of Student Affairs.

During her three years at Tech, Ms. Pendleton-Parker has served as the program director for the Lilly Teaching Fellows Program, co-chair of the Georgia Tech Olympic Coalition, member of the Women's Forum Scholarship Committee, member of the AIDS Task Force, chair of the Safety Advisory Committee, chairperson of the Human Relations Employee Steering Committee and member of the Human Relations Executive Board, and coordinator of the Southern Regional Faculty and Instructional Development Consortium. Ms. Pendleton-Parker also sponsors several student groups, including Golden Key, the Education Coalition and Teach for America.

Michael Elliott, Outstanding Interdisciplinary Activities Award

Dr. Michael Elliott won the Outstanding Interdisciplinary Activities Award for "exceptional research, service and teaching that crosses normal disciplinary boundaries."

To Dr. Elliott, a member of Tech's graduate City Planning faculty with a joint appointment in the School of Public Policy, interdisciplinary work is crucial to scholarship and education at Georgia Tech.

"I work on environmental issues, but I do so within a context of planning and public policy. My concern is for how we, as a society, manage and create environments that serve the public interest. The concern cannot be addressed simply as a question of science and technology on the one hand or policy and planning on the other," he said. "Nor can local environmental concerns be isolated from international and environmental conditions. Fruitful scholarship and education must cross over these boundaries to deal with the complex problems facing our society. These are the questions that I find fascinating and that faculty across Georgia Tech are increasingly seeking to address."

Philip Adler, Human Relations Award

Dr. Philip Adler, professor in the School of Management, received the 1991 Employee Human Relations Award during Faculty/Staff Honors Day festivities.

"The award honors Tech employees who have performed exemplary human relations work on and off the Georgia Tech campus. Dr. Adler has been working to make the Georgia Tech community a more humane place to live and work for nearly 30 years, according to Dr. Gregory H. Nobles, associate professor in the School of History Technology and Society who presented the award. The focus of his work at Georgia Tech is in the classroom. Study and project groups are deliberately mixed by race and gender, so that students learn to work with individuals different from themselves. Sexist language is also forbidden in his courses, and, if used, automatically incurs an extra assignment on equal employment opportunity guidelines."

Dr. Adler's influence on campus is also evident in his work with the Board of Impartial Review, a subcommittee of the Human Resources Advisory Committee to the President. This panel of faculty and staff members hear nonfaculty grievances and work to resolve the issues before the individuals file formal grievances.

Members of the Athletic Association cite numerous instances of Dr. Adler's dedication to Georgia Tech in helping them recruit student-athletes. Agron Berevano, women's basketball coach, said, "Dr. Adler makes the students and parents feel comfortable with Tech, and he makes them understand the need for success in the classroom and on the basketball court."
Classifieds

**Needed** - Someone with whom to carpool from the Whitesburg/Carr- roll Co. area. Will provide the vehicle. Call Larry Howard at 3-6564 or leave a message at 4-0000 during working hours.

**For Rent** - 2 BR, 1 BA furnished Victorian in Virginia Highland whip yard. Great location, access to MARTA & in good school district. Avail. July 15 for 1 year. Call Katherine at 897-1680.

**Lease/Purchase** - Very nice 3 BR, 2 BA stucco ranch, jacuzzi tub, deck, falc. Panama Rd/Painting Rd. area in Lithonia, Decatur. $750/mo. Call 392-3227 after 6 p.m. or leave message.

**For Sale** - 4-piece white wicker set w/beachers, $300; sofa & loveseat, $150; solid Oak Paul Bunyan queen-size bedroom suit, $850; older model VCR recorder/players, works great, $300; and Sportslife-lifetime couple membership, $600. Call 975-2794.

**For Rent** - Furnished or unurnished efficiency at Brookhaven Station on MARTA, Post Apts. Time and rent neg. Call 237-6414.

**For Sale** - MAC 52, dual-disk drive, keyboard, mouse, software plus ImageWriter printer, $500. Call Judy at 982-0611.

**For Sale** - Daytona Beach time share condo, red. Vacation anywhere in the world. One free week included with purchase. Call P. Richmond at 484-2445.

**For Sale** - Seven ft. sofa and matching easy chair, $150; set of six white mini blinds, $50. Call Terry Axelrod at 4-4646.

**Briefly...**

**Discovery Kids Camp** - Discovery Kids, sponsored by Corporate Child Care Consultants Ltd., is a day camp for children of Tech employees and students for ATEP families. Children may be enrolled for all or part of the eight-week program from June 17-Aug. 9. A $24 nonrefundable deposit is required and will be applied to the full $74 tuition per child, per week. Most activities will be at the Fowler Street School and on the Tech campus, with field trips throughout metro Atlanta. For more information, call 352-8377.

**Whistle Break** - The next scheduled issue of Whistle is June 24. News items for that issue are due by Friday, June 14 and may be sent to Whistle at mail code 0131 or via PROFS to LNEMETH. Calendar items and classifieds may be sent via PROFS to VDUCLEY.

**ORP Update** - TRS has decided that interest will be credited on June 30 on all funds of ORP participants remaining on deposit with TRS. For more information, call John Grovenstein at 4-8674.

**What’s Next**

**ACADEMICS**

June 6

FORUM on Introductory Science, Mathematics and Computing Education at Georgia Tech — the proposed Center for Education in Science, Mathematics and Computing, conducted by the College of Sciences, 3 p.m., Physics Bldg., Lecture Rm. 4, all faculty and students are welcome, call 4-3800 for more info.

Last day to pay fees to retain Early Registration (Phase I) schedule for summer quarter.

Last day to apply for Cross Registration for summer quarter.

June 7

Final grades for degree candidates scheduled to graduate June 15 must be turned in to the Registrar’s Office no later than 9 a.m. today.

Last day of classes for all students.

June 10

Degree candidate re-examinations.

Final Exams, through June 14.

June 15

Commencement, Gen. Ron Yates, speaker; 9 a.m., Alexander Memorial Coliseum.

June 17

All grades due in Registrar’s Office from schools and departments by 9 a.m.

**LECTURES & SEMINARS**

June 4

Initiatives in Science and Engineering Education Seminar, Karl Porter, former dean of engineering at the University of California-Berkeley and chair of the National Research Council’s Board on Engineering Education, “The American Research University: Quo Vadis,” 11 a.m., AECAL Bldg., Rm. 17, call 4-3350 for more information.

June 6

Management of Technology Seminar, Richard R. Oliver, Federal Reserve Bank, “Technology’s Impact in the Financial Services Sector,” 4:30 p.m., Instructional Center, Rm. 109.

June 7


**whistle**

THE GEORGIA TECH WHISTLE

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