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Georgia Tech Faculty And Staff Honored At Awards Luncheon On May 30

The Tech community gathered on May 30 in the Student Center Ballroom to recognize its outstanding, award-winning faculty and staff at the annual Faculty/Staff Honors Luncheon.

Dr. Barbara L. Blackbourn, assistant professor in the Department of Modern Languages, and Dr. Henry S. Valk, professor in the School of Physics, were named Outstanding Teacher Award winners. Dr. Ben T. Zinn, Regents' professor in the School of Aerospace Engineering, received the Distinguished Professor Award.

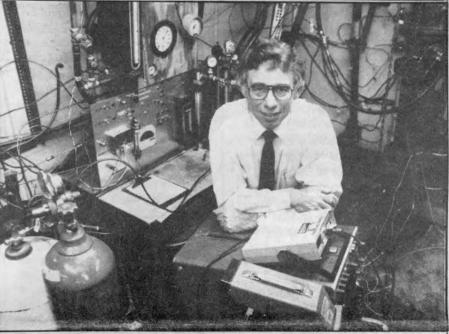
Dr. Daniel P. Schrage, professor in the School of Aerospace Engineering, received the inaugural Outstanding Interdisciplinary Activities Award. Dr. Dale C. Ray, professor and associate director for the School of Electrical Engineer-

Teacher Award Winners For 1990

ing, was named recipient of the Outstanding Service Award. Chief Jack Vickery, director of Campus Police and Parking, won the Administrative Service Award.

Blackbourn and Valk received awards of \$5,000 each, while Zinn received an award of \$12,500 from an endowment provided by the Class of 1934. Ray received an award of \$2,000, and Vickery received an award of \$1,500.

The Honors Luncheon also recognized the ANAK Award winner, the first recipient of the Outstanding Human Relations Award, four Faculty Research Award winners, and the Georgia Tech Foundation Professional Achievement Award winners. Faculty and staff members with 25 and 10 years of service to the Institute were also recognized at the luncheon.



Dr. Ben T. Zinn, Regents' professor in the School of Aerospace Engineering, was named this year's Distinguished Professor at the Faculty/Staff Honors Luncheon on May 30.

By Vera L. Dudley Blackbourn, Valk Named Outstanding

By Jackie Nemeth

Despite the differences in their fields, 1990 Outstanding Teacher Award Winners Dr. Barbara L. Blackbourn, assistant professor in the Department of Modern Languages, and Dr. Henry S. Valk, professor in the School of Physics, share similar attitudes and philosophies about teaching. Both Blackbourn and Valk stress making the classroom a fun and exciting place for students. They also relish learning from their students' questions and pursuing answers to those inquiries.

"I feel on one hand unbelievably honored, and on the other hand incredibly humble about receiving this award," Blackbourn says. "Teaching is a really wonderful profession; at the elementary level of foreign language, teaching these students is like watching small children develop in their communications skills."

Her current fields of interest range from Quebec studies to Business and Technology: French Curriculum Development. Blackbourn received her B.A., M.A. and Ph.D. in French from the University of Wisconsin-Madison.

Blackbourn credits several high school teachers and college professors for making foreign languages and lands come alive for her. One such educator, Professor Perry Bard, made learning a second language such an open, positive experience that she switched her major to French.

"I credit her with helping me see the importance of being enthusiastic about French, but also being sensitive to students' needs," Blackbourn says. "The first time I went to France I felt like I had been there before because she and others had made it so real to me."

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Combustion, Propulsion Expert Ben Zinn Wins Distinguished Professor Award

Who ever said athletes weren't smart? Ask Dr. Ben T. Zinn and he will prove to you, using himself as an example, that "smart jocks" can become distinguished professors and renowned engineering experts.

As a Regents' Professor in the School of Aerospace Engineering, Zinn is highly respected by both colleagues and students. With a background so rich in recognition of his intellectual abilities, one might wonder where Zinn found the time to excel on both the Israeli and United States national soccer teams while graduating as the top mechanical engineering student in his class at New York University.

This man, who refers to himself as a "workaholic" and who has devoted his entire academic career to Georgia Tech, was presented the Distinguished Professor Award in appreciation of his efforts, loyalty and expertise as a professor. One of his former students, Dr. Joseph D. Baum, a senior research scientist at Science Applications International

Corp., describes Zinn as a caring instructor who always had the time to offer a little extra assistance.

'He continued to actively show his concern for his students by opening his home to them, making time to speak to them whenever necessary, and in fact helping to secure positions for students after graduation," Baum says. "Dr. Zinn provided active guidance of students' research, both by securing funding and contributing original ideas, without inhibiting freedom and creativity."

As an educator for over 20 years, Zinn says he attributes his teaching skills to experience. He feels it is important to relate what could be seen as mundane theory to real life examples.

"I try to give students real life examples of where the equations are actually being utilized and show them that it is just not homework and examples and reading," Zinn explains. "I try to tell them who needs it and show them how they will not be able to perform unless

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Margaret Barrett

Dr. Barbara L. Blackbourn, assistant professor in the Department of Modern Languages, also received an Outstanding Teacher Award.

Teachers...

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Active participation is a must in Blackbourn's classes-be they in language, culture or literature. Students interact in small groups, student-to-student, or student-to teacher, and of course, all communication is ideally in French, Blackbourn says. In order to encourage a friendly atmosphere in the classroom, she often starts out on a personal note with conversation among herself and students about weekends, outside activities, and each other, before the class even begins.

"I like the whole sharing process involved with teaching," Blackbourn says. "I try to teach students to be receptive and open to others' needs and other cultures; it is important to try to 'mentally touch' one another."

In order to make class material come alive, she often uses slide or film presentations to enhance written course material. Currently, she is working on a series of proficiencyspiralled video sequences about scientific topics which will be used in the upper level "French for Scientists and Engineers" course that the Modern Languages faculty is developing. The course will also be integrated at all language levels.

"Learning a foreign language is a gradual process, so you must be sensitive to your students' needs and the levels on which they are working," Blackbourn says. "If a teacher makes it clear what he or she expects, students will give it back to you. It's a teacher's job to help students learn."

Blackbourn says she enjoys not only sharing her academic knowledge, but also her personal side, with students.

"I really enjoy the closeness I have with my students, and the learning I do while I'm teaching," Blackbourn says. "When I walk in

the classroom, any other care I have goes away. I'm not afraid to show that I am a person with feelings too."

Adding a personal touch and a human side to a subject such as physics is one of the many reasons why Valk was also honored with an Outstanding Teacher Award.

"I take this honor with great pleasure because I am receiving it for doing something that I love,' Valk says. "It is nice feeling to know that you are appreciated by colleagues and students, and I thank all of them for their confidence in me."

Valk came to Tech in 1970 as a professor of physics and dean of COSALS; he served as dean until 1982. Valk received a B.S. in physics and a M.S. in mathematics from George Washington University, and a Ph.D. in theoretical physics from Washington University in St. Louis. His current research areas concern photonuclear physics and molecular clusters.

Bringing a feeling of excitement is of utmost importance to his teaching style, says Valk. While teaching physics for the past 30 years, Valk incorporates a human interest aspect into classroom material.

"It is important to know the theories and formulas of physics, but it is also important to know how these discoveries were made," Valk says. "People made these discoveries, so it is important to know what they were like as people too. Even if the students in my classes are not majoring in physics, I want them to understand why this field is important and interesting and how it fits."

Like Blackbourn, Valk credits outstanding teachers who made physics real and fun to him. The late Henry Primakoff, Valk's doctoral thesis advisor, exuded enthusiasm and excitement about physics. Another of Valk's influential professors, George Gamow, add-

ed a sense of humor and a lighthearted attitude to teaching physics.

In class, Valk frequently calls on students and moves around the room to be closer and be more approachable to them. He strongly believes everyone should be involved in the learning process and welcomes all kinds of questions.

"Teachers can really learn from students," Valk says. "You think you may know everything about something, and a student may ask you why something is the way it is. Then a teacher may have to rethink his logic or do a little more research to find out those answers."

Valk grew up during World War II and witnessed discoveries of physicists such as Oppenheimer. He says their accomplishments had tremendous influence on young people who were interested in the sciences at that time.

"Science is like a game with its possibilities for discovery," Valk says. "It is fun to convey facts and possibilities to others at all times, even outside the classroom. You are a representative of your particular field at all times."

"Teachers owe a great deal to their students," he continues. "Students are our customers, in a sense, and they deserve the best we can give them."

Whistle Break

This is the last issue of the Whistle for spring quarter.

During the summer quarter, the Whistle will be published every two weeks. The first issue is scheduled for publication on Monday, June 25. If you would like to submit items to be considered for inclusion in that issue, please send them to the Whistle, mail code 0181, by Friday, June 15, or PROFS them to JLNEMETH.

The Whistle staff would like to thank everyone in the Tech community for their continued support; we hope you have a great summer!

Tech Captures Seven Presidential Young Investigator Awards

Seven Georgia Tech faculty members have been named Presidential Young Investigator (PYI) Award winners by the National Science Foundation (NSF).

Tech's seven award winners include: Cynthia Barnhart, assistant professor in the School of Industrial and Systems Engineering; Sue Ann Bidstrup, assistant professor in the School of Chemical Engineering; Bonnie Heck and Nan Marie Jokerst, assistant professors in the School of Electrical Engineering.

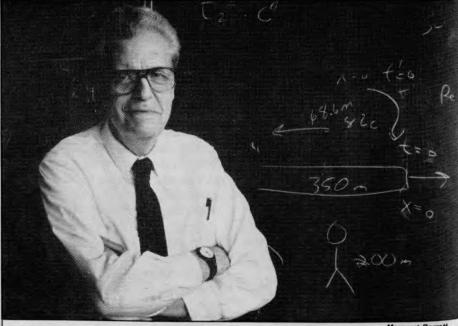
Also receiving the award are: Carl Nett, associate professor in the School of Aerospace Engineering; Umakishore Ramachandran, assistant professor in the School of Information and Computer Science; and Holly Rushmeier, assistant professor in the George W. Woodruff School of Mechanical Engineering.

The award is given to outstanding young Ph.D. scientists to encourage them to pursue teaching careers. This year, NSF awarded 211 PYIs out of over 1,600 nominations. Each young investigator can receive up to \$100,000 per year for five years in a combination of federal and matching private funds.

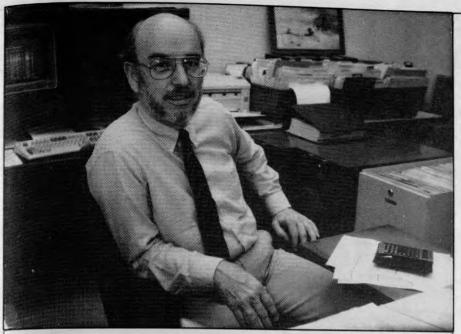
NSF Spokesman Bassam Shakhashiri says, "The PYI program works to strengthen science and engineering education by recognizing its outstanding practitioners at an early stage in their careers. These are the people we need to keep on our campuses to teach our students and to focus their creativity and energy on solving important research problems."

Job Hunting?

If you're looking for employment opportunities, call the Job Line in the personnel office—ext. 4-4592.



Dr. Henry S. Valk, professor in the School of Physics, was one of the two recipients of Tech's Outstanding Teacher Award for 1990.



Dr. Dale C. Ray, associate director and professor in the School of Electrical Engineering, was honored with the Outstanding Service Award.

Dale Ray Recognized For His Outstanding Service To Georgia Tech

By Vera L. Dudley

"I believe that he has taught many of us by his example that integrity, loyalty, and intelligence are all part of the professional makeup to which we should all aspire." This is how Regents' Professor in the School of Chemistry E.C. Ashby expressed his sentiments in a letter of support for the nomination of Dr. Dale C. Ray, professor and associate director of the School of Electrical Engineering, for the Outstanding Service Award.

Numerous statements like the above from his colleagues led to Ray being chosen as this year's recipient of the Outstanding Service Award at the Georgia Tech Faculty/Staff Honors Luncheon held last week.

A modest man, Ray has declined the candidacy for the award on other occasions.

"I guess the reason I said no is because I get great pleasure in serving and getting the award seems superfluous," Ray says. "I've been a reluctant candidate. I've thought others were deserving of the award."

Ray, who is credited with the improvement of both the undergraduate and graduate programs in electrical engineering, has served on numerous committees at Tech. He was chairman of the Executive Board during the academic restructuring and many times, according to colleagues, he was placed between opposing sides and had to make decisions that weren't universally accepted. Director of Undergraduate Affairs in the School of Electrical Engineering and Professor William Sayle II spoke highly of Ray's performance during that period.

"His knowledge of academia and his negotiating skills made the difference in keeping the restructuring debate on a professional level,"

Sayle says. "Without Professor Ray at the helm of the Institute's Executive Board, Georgia Tech would likely have suffered irreparable damage."

Ray says that negotiations had to be handled delicately for restructuring was a sensitive matter. He was in a position to be sympathetic to both sides after working with the Tech faculty for so long and working with the president. Sometimes, according to colleagues, decisions had to be made that were not popular.

"It was very stressful because the most difficult aspect was getting the president to understand just how important the faculty governance was in all of this," Ray explains. "He was new and I have lived with this for several years. Sometimes the faculty got upset with me and sometimes the president did. I guess that was just part of the responsibility."

In the last 24 years, Ray has served the School of Electrical Engineering as associate professor, professor, assistant director and director for Graduate Affairs. He is known as an administrator and teacher who enjoys personal interaction with every undergraduate and graduate student in the school.

"I like to know the individual and what their backgrounds, their strengths and amibitions are. I get to know the graduate students first by reviewing their applications and reading their work," he explains. "Each student has a special profile in my own memory bank before they even show up on campus. I have a knack for being able to store that information.'

Ray received his B.S., M.S. and Ph.D. in Engineering from the University of Michigan. Prior to Tech, he was employed at the University of Michigan in various positions for 10 years.

Zinn...

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they understand the physics behind the equations."

Zinn, who is considered one of the world's leading experts in the field of combustion instability in rocket motors and pulse combustion, proposed and currently directs the Pulse Combustion Research Center at Tech, which is funded at over \$1 million for three years by the Gas Research Institute.

He is credited with the development of modern laboratories and new courses and helping to create a research program that attracts students and scientists worldwide. With his involvement, the School of Aerospace Engineering is considered the center of excellence in the areas of combustion and propulsion. For these reasons, Zinn's colleagues found him "uniquely deserving" of the award.

"Even though I am getting the prize, I feel that it belongs to students, colleagues, research staff and faculty without whom I would not have been able to do a lot of the things that I have done," Zinn says. He also gives special credit to Mr. Brady Daniel and Dr. Jechiel Jagoda.

Since he has been at Tech, Zinn has served on various government and professional society committees whose tasks were to identify technical problems in the fields of combustion, propulsion, acoustics,

and energy. The recommendations of these committees often influenced government funding. He was also instrumental in having several conferences and workshops held here that introduced Tech to large numbers of scientists from various universities and industrial and governmental bodies.

Zinn, who joined the faculty in 1965 as an assistant professor, attained the rank of Regent's Professor in eight years. He is a fellow of the American Institute of Aeronautics and Astronautics. He has held responsible positions in various organizations including an appointment by Commerce Secretary Juanita Kreps (Carter Administration) to the Board of Visitors of the National Fire Academy.

In addition, Zinn has published extensively including two books on measurements techniques in combustion systems. He presently holds three patents and has two patents pending. He has served as a consultant to numerous organizations; and has been honored by various educational institutions and organizations.

Zinn, who has dedicated practically his entire career to Georgia Tech, received his B.S. from New York University, a M.S. from Stanford University, and a M.S. and Ph.D. from Princeton Unviversity. He has also worked for American Standard Research Division in New Jersey.

Pisar, International Author/Lawyer, To Speak At Spring Commencement

Samuel Pisar, a world-renowned author and international lawyer who has been admitted to practice in Paris, New York, and London, will speak at Tech's spring quarter commencement ceremonies on June 16 at 9 a.m. in Alexander Memorial Coliseum.

Pisar was 10 years old when his native Poland was invaded by the Germans from the West and the Soviets from the East. After two years of Russian occupation and four years of Nazi slavery in Auschwitz and other death camps, he was liberated by an American tank column, following a daring escape from Dachau. At the end of World War II, he was 16 years old, one of the youngest survivors of the Holocaust and the only surviving member of his family.

Pisar is permanent counsel to President Juan Samaranche and to the International Olympic Committee. He has served in this capacity since 1979, including the organization of the 1980 Games (Moscow), 1984 Games (Los Angeles), and 1988 Games (Seoul).

Counsel to governments, corporations, banks, United Nations agencies, and the International Olympic Committee, he has served as a

member of President John F. Kennedy's brain trust on foreign economic policy, and advisor to the State Department, the Senate Committee on Foreign Commerce and the Joint Economic Committee of Congress.

He is a board member of several American and European companies and charitable organizations, and a trustee of the Brookings Institution in Washington, D.C.

Pisar has presided the World Colloquium of Nobel Prize winners on "Science and Peace" (Paris, 1983), International Conferences on East-West Trade and Industrial Cooperation of the European Management Center in Brussels, Belgium (1971-1975), and has lectured extensively throughout the world.

His books include Coexistence and Commerce (McGraw-Hill, 1970) and Of Blood and Hope (Macmillan, 1982), which was translated into 20 languages.

In addition, he has been made an American citizen by special act of Congress. He is a Knight of the French Legion of Honor, a Commander of the Order of the Arts and Letters, and the recipient of the 1988 Elie Wiesel Prize.

Schrage Receives Inaugural Outstanding Interdisciplinary Activities Award

By Jackie Nemeth

"Interdisciplinary" is defined by Webster's Dictionary as "involving, or joining two or more disciplines, or branches of learning." The essence of making an interdisciplinary activity work is "teamwork," according to Dr. Daniel P. Schrage, professor in the School of Aerospace Engineering and first recipient of the Outstanding Interdisciplinary Activities Award.

The team concept is one that Schrage has carried with him since playing basketball at the U.S. Military Academy with Duke basketball coach Mike Krzyzewski under Bobby Knight [now coach of Indiana University]. He received a B.S. in General Engineering from the U.S. Military Academy, a M.S. in Aerospace Engineering from Georgia Tech, a M.A. in Business Administration from Webster University, and a D.Sc. in Mechanical Engineering from Washington University in St. Louis. He has been a professor at Tech since 1984.

Teamwork is an essential part of Schrage's work in aerospace engineering and as technical director of the Center of Excellence for Rotary Wing Aircraft Technology (CER-WAT), a position he has held since

CERWAT has served as an effective interdisciplinary center for faculty and graduate students involved in research and education. Graduate design courses have been used in CERWAT to focus on the interdisciplinary nature of rotary wing aircraft and to teach students the relationship between research, technology and systems.

For the past five years, Schrage's rotorcraft design teams have captured first place honors in the American Helicopter Society's national student design competition, establishing a tradition unparalleled by any other institution. Other top honors in this competition have also been dominated by Tech teams.

Schrage emphasizes the importance of each team member's contribution to interdisciplinary

"In designing a rotorcraft system, you have to have some understanding of all the important engineering and scientific disciplines," Schrage says. "You must have depth in a particular area and breadth across all the others. Then you must bring all that information together as a team."

Schrage has worked closely with GTRI in establishing the Aviation Technology Branch in the Radar and Instrumentation Laboratory. He has also helped in acquiring Lockheed aerospace facilities and in initiating the Georgia Tech Real

Time Rotorcraft Flight Simulation Laboratory, which is a recently funded army facility involving a parallel computing architecture with high power vision graphics.

"Aerospace systems design involves just about every discipline at Georgia Tech and can be a focus for the reorganized Georgia Tech," Schrage says "My colleagues in aerospace engineering, Don Giddens [director of the school], Professor James Craig and Instructor Ed Rogan have also been very supportive in expanding the use of aerospace systems design and computer aided design research as a research and educational tool here at the Institute."

Another interdisciplinary effort, the Georgia Tech Laboratory for Information Technology in Engineering (LITE), was spearheaded by Craig, Schrage, Robert Fulton (Mechanical Engineering), Alan Porter (Industrial and Systems Engineering), and John Gilmore (Electromagnetics Laboratory/GTRI). Internal support was provided by College of Engineering Dean William Sangster and former Executive Vice President Thomas Stelson.

"The lab has been successful in addressing information integration issues, computer aided design and analysis, and manufacturing technologies," Schrage says. "This lab is proving to be a building block for development of an initiative in aerospace systems design."

The academic and GTRI reorganizations, and a continued, close coupling of academic colleges and GTRI on interdisciplinary research projects, provide many opportunities for Georgia Tech in university-industry-government cooperation, according to Schrage. He praises the late President Joseph M. Pettit, President John P. Crecine and Stelson for expanding Tech's horizons.

"The time is ripe for Georgia Tech to become one of the world's leading technological universities," Schrage says. "The academic and GTRI reorganizations, in particular, present so many new opportunities and relationships for Georgia Tech to address many of the nation's and world's problems."

Schrage firmly believes that there is no substitute for going the extra mile in excellent interdisciplinary work.

"If you want to be good at interdisciplinary work, it takes more commitment because you are working with many different people," Schrage says. "People who are extremely successful, in any area, do the extra things that need to be done, and they usually can't be done in an eight-hour day."



Margaret Barrett

Dr. Daniel P. Schrage, professor in the School of Aerospace Engineering, was named recipient of the first Outstanding Interdisciplinary Activities Award.

Malcolm Polk Nationally Recognized For Outstanding Teaching Abilities

By Ginger Pinholster Research Communications Office

As a young boy, and later as a student of science, Dr. Malcolm Polk, an associate professor in the School of Textile and Fiber Engineering, could not look to any black role models for encouragement or guidance. Polk had learned about the work of a few black scientists, but they did not live in his com-

Today, Polk is nurturing hundreds of young scientists at Tech.

Polk recently received the annual 1990 Outstanding Teacher Award, presented by the National Organization for the Professional Advancement of Black Chemists and Chemical Engineers (NOBCChE). The award recognizes teachers who have made significant contributions in the areas of research and teaching.

"This is a singular national award, and it is quite prestigious," says Dr. Fred Cook, director of the School of Textile and Fiber Engineering. "The NOBCChE is made up of the best black chemists in the country, so Dr. Polk was selected from a large pool of candidates. The award recognizes his exceptional teaching and research abilities."

Florida Matthews, of Pleasanton, Calif., and some of her former classmates nominated Polk for the award based on direction he provided while teaching for Atlanta University. Now a polymer chemist with the Lawrence Livermore Laboratory, Matthews was impressed by Polk's concern for his students.

"He was our teacher and our advisor," she says. "He was a fine instructor who was always looking to the future, and he helped us in any way possible with our course work and research projects."

Polk divides his responsibilities

equally between polymer research and teaching. His teaching style is driven by a desire to motivate students.

"I try to teach with enthusiasm," he explains. "I need to demonstrate that the subject matter is interesting to me because polymeric fibers is an exciting field. The student must understand that there are opportunities to make discoveries and expand our knowledge of the subject matter."

Many more minorities and women must be encouraged to pursue science and engineering, Polk says. Otherwise, the traditional pool of talent in these fields could dwindle, and "technical jobs will go begging in the future," he warns.

Now an organic polymer chemist, Polk was about eight years old when he received his first chemistry set. This may be why he recognizes the need to reach science students at a very early

After receiving a B.S. from the University of Illinois and a Ph.D. from the University of Pennsylvania, Polk joined E.I. duPont and Co. as a research chemist. Later, he taught at Prairie View College and Atlanta University before accepting a post with Tech.

Cook credits Polk with reviving a difficult freshman elective course in textiles. Several faculty members (including Cook) had attempted to breathe new life into the course, but student participation was waning until Polk took the helm.

"This quarter, we have 205 people in that class," Cook adds. "The response reflects Dr. Polk's ability to generate interest at the earliest stage of the engineering student's career. He can appeal to a broad cross-section of students, and he does it in a very interesting, entertaining way that effectively gets the message across."

Jack Vickery Receives Administrative Service Award For Keeping The Peace

By Vera L. Dudley

During the last decade, one man has indirectly influenced the way people feel about going to their offices or classes at Georgia Tech. He has dedicated years to maintaining peace and order within the Tech community so that students, faculty, staff and administrators can focus on making Tech great in a relatively safe environment.

Because of the outstanding manner in which he has performed a very detailed-oriented task, Georgia Tech presented Chief Jack Vickery, director of Campus Police and Parking, with the 1990 Administrative Service Award.

"It is a very gratifying, yet humbling, experience in that many people are responsible for making Georgia Tech a safe campus. I am very appreciative for the recognition and have been very fortunate to have good folks to work for and to work with," Vickery says. "I couldn't have won it by myself."

He came to Georgia Tech in 1980 as assistant chief of the Georgia Tech Police following four years of law enforcement duties at the University of Georgia. In 1981, he assumed the responsibilities for management of the parking and transportation programs. In 1982, he was named director/chief of Campus Police.

A native of Hartwell, Ga., Vickery has served Tech through interaction with faculty, students, and staff concerning safety, security, parking and transporation issues at Tech. Under Vickery, transportation services have been expanded to provide additional safety escorts and services for the disabled. He has directed the computerization of crime data, office activity and park-

ing records. He has worked in improving the recordkeeping and reporting capabilities of these operations.

"Officers handle approximately 3,000 reports a year of a serious nature and perform another 50,000 general service-oriented activities. Our recordkeeping responsibilities are significant and reporting requirements are increasing," Vickery explains. "About four years ago we began to computerize many of our files to help us do a better job. That process is continuing."

One of Vickery's departmental priorities is the application of technology to improve campus safety through alarm systems, closed circuit TVs, emergency telephones and parking control equipment.

"We've gone from 10 or 12 alarm systems to about 50 in various locations on the campus. The number of emergency telephones on campus which automatically dial the station has increased to 40," Vickery says. Crime prevention programs con-

Crime prevention programs continue to be emphasized to counter the growing threat to a modern urban, residential campus. Under Vickery's leadership, the department has sponsored numerous seminars that inform people about self-protection and the maintenance of a safe environment.

"Crime has been on a steady incline and we're not immune to that," says Vickery. "Crime prevention and increasing safety on the campus is something that the entire community has to get involved in. That occurs through education and commitment."

In 1986, the Georgia Peace Officer Standards and Training Council awarded him the Executive Certificate, the highest level of peace officer certification in Georgia.

Chief Vickery is a past president and active member of the Georgia Association of Campus Law Enforcement Administrators. He is a member of the International and Georgia Association of Chiefs of Police, Institutional and Municipal Parking Congress, Omicron Delta Kappa and Metropol, an organization of private security and law enforcement officials within the metro Atlanta area.

By 1979, Vickery graduated from the University of Georgia with both a Bachelor of Arts (cum laude) and a Master of Public Administration degree. He has since spent countless hours pursuing further education and training in his field.

"This is a dynamic field that no one ever masters completely. The laws change as well as the values of the society and we have to change with them. That keeps the job interesting," Vickery says. "There is never, ever a time when you can stop learning. It fits right in with the overall educational goal of the university."



Margaret Barrett

Chief Jack Vickery, director of Campus Police and Parking, was honored with the Administrative Service Award.

Phillips CEO Silas Visits Georgia Tech

By Charles Hyatt Ivan Allen College

Chairman and CEO of Phillips Petroleum, C.J. "Pete" Silas, addressed the faculty and students of Georgia Tech recently in the Tennenbaum Auditorium of the new Ivan Allen College of Management, Policy, and International Affairs.

Silas graduated from Tech in 1953 with a B.S. in Chemical Engineering and spoke on the topic "Why a Career in Business?" Describing his own career with Phillips from plastics sales to overseas development and finally to fending off recent hostile takeover attempts, Silas focused on the practicalities of getting things done.

"I'd advise anyone interested in corporate success to work in operations for a while and not try to be strictly staff," Silas said.

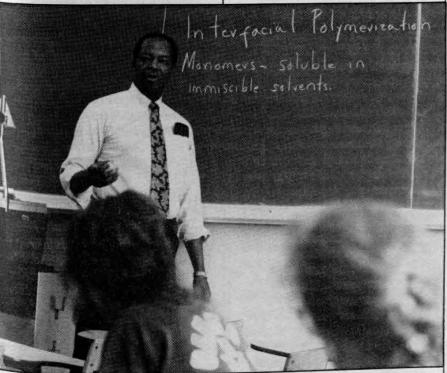
Awarded the Royal Norwegian St. Olav's order in the degree of Commander for his work in developing that country's energy reserves, Silas is also active in civic affairs in this country. A board member of the U.S. Chamber of Commerce and the Business-Industry Political Action Committee, he is also a member of the Council on Foreign Relations and active in the National Boys Club of America, the Rotary Club, and the American Council on Education. A member of the Georgia Tech Foundation, Inc. Silas is a past chairman of Tech's National Advisory Board and was a Tech commencement speaker in 1982.

Silas also was a star athlete at Tech as the basketball team's leading scorer from 1950-53 and the first Tech player ever to score more than 1,000 points. Captain of the team his senior year, Silas went on to win a gold medal with the U.S. team at the Pan-American Games in Mexico City in 1955 and was elected to the Georgia Tech Athletic Hall of Fame in 1959.

"Good luck comes to those who work hard," Silas said. "I can remember having to work really hard at Tech to stay on the team and get decent grades. It's important when you're in school to get involved with activities outside of the classroom as well, especially in your community. There's a great deal of technological change ahead for all of us, and the well rounded person, especially with international experience, will be best prepared for those changes."

Silas ended by discussing some of the challenges which lie ahead for business leaders. "We're going to have to get to work on the environment," he said seriously. "People have the impression that it's big bad industry vs. the people, and that's simply not the case. We have industrial pollution because people want to go faster and farther and to have the modern conveniences which industry provides. But we in industry are not against the environmental groups and are actually very interested in changing things, especially in developing alternative forms of energy. Your generation will be making the decisions on all of these issues."





Joe Schwartz

Dr. Malcolm Polk, associate professor in the School of Textile and Fiber Engineering, was recently honored with the 1990 Outstanding Teacher Award, presented by the National Organization for the Professional Advancement of Black Chemists and Chemical Engineers.



Billy Payne, president of the Atlanta Organizing Committee, (2nd from right) escorts International Olympic Committee (IOC) representatives through a crowd of cheering well wishers in front of the Wardlaw Center before the start of the first annual Georgia Intracollegiate Games. Over 500 people were present to greet the visiting IOC members. The IOC delegation included Gunnar Ericsson (Sweden), Peter Tallberg (Finland), Pal Schmitt (Hungary), Henry Adefope (Nigeria), Jean-Michel Gunz (Switzerland) and Anita DeFrantz (United States). The group then watched the lighting of the Intracollegiate Games torch and a parachute jump into Bobby Dodd Stadium/Grant Field.

GTL Offers U.S. First Complete **Engineering Program In France**

By Vera L. Dudley

Something wonderful is happening in France, and Georgia Tech is going to be a big part of it. Within the framework of an agreement between the State of Georgia and the Region of Lorraine, a partnership between Tech and local French authorities will result in the first complete engineering graduate program offered by an American university in Europe.

Located in the Technopole Metz 2000 industrial park, the new Georgia Tech Lorraine (GTL) program is intended to serve as Tech's extension into Europe while focusing its activities in three main areas: academic programs, primarily at the graduate level and initially oriented toward electrical engineering with later expansion into management and other engineering disciplines; continuing education programs, focused on the needs and opportunities of the European Community; and research and development activities, in close cooperation with European universities and research organizations.

GTL was established as a nonprofit organization under the French law which, in turn, has signed specific cooperative and administrative agreements with Tech. GTL was officially created June 7, 1989 during a formal signature ceremony, held in Metz, where Tech's former Executive Vice President Thomas Stelson and first Vice-Mayor of the City of Metz and President of GTL Jacques Faudon were present. Also in attendance was Hans B. Puttgen, professor of Electrical Engineering at Tech. Puttgen is GTL program director and president of the GTL's Academic and Scientific Council

which oversees all of its instructional and research activities. Professor Jean Renouard, director of Supelec's branch in Metz, will serve as GTL's initial director.

The GTL Electrical Engineering program, which will be the first one offered, will be implemented in cooperation with the Ecole Superieure d'Electricite, Supelec, one of France's most prestigious electrical engineering schools, which also has a branch at Technopole Metz 2000.

"Our faculty will be over there teaching at graduate levels and conducting research in cooperation with various local universities and agencies sponsored by various French and European programs and industries that we may not have access to here," said Orlando J. Feorene, director of Tech's Manufacturing Technology Program. "Our students here in Atlanta will also benefit from the knowledge that our faculty will have obtained in Europe. It is a unique opportunity for us to enrich and broaden our research and educational programs."

Tech will actually send electrical engineering faculty members to Metz to perform instructional and research activities within the GTL organizational umbrella. Starting fall 1990, three professors will be at GTL. The number of Tech faculty at GTL is intended to gradually increase along with the academic and research programs offered by Tech in Lorraine.

Supelec and other university faculty members from such universities as Metz and Nancy, in France, as well as Saarbrucken, in Germany, will cooperate with Tech faculty in teaching graduate level courses leading to Masters and

Ph.Ds from Tech. Students will also have the option at GTL to pursue dual degrees in electrical engineering, business administration, mathematics, and physics from surrounding universities.

The initial planning for the Tech extension took place approximately two years ago in a meeting following the formal signature of a cooperative agreement between the State of Georgia and the French Region of Lorraine. The agreement calls for exchanges and collaborations in the industrial, scientific, cultural and educational arenas.

During this meeting, Jean-Marie Rausch, Mayor of the City of Metz, President of the Lorraine Region; the Minister of Foreign Trade of the Government of France, and Tech President John P. Crecine discussed the various logistical and financial considerations involved in the French delegation's proposal to establish a Georgia Tech extension in Metz. Metz is also the administrative capital of Lorraine and is strategically situated at the heart of Europe. The Lorraine region borders Belgium, Luxembourg and Germany.

In addition to the academic benefits, officials expect the Tech extension in France to have an economic impact on the State of

Georgia.

"Georgia Tech Lorraine can assist and support Georgia industries in providing better understanding of the requirements and methodologies for successfully exporting their products and services into the European community," Puttgen explained.

The Tech extension, to be operational in the fall of 1990, will be primarily funded by local French authorities. It is comprised of a 50,000-square-foot state-of-the-art instructional, research and administration building located on 6.5 acres at Technopole Metz 2000. Two other related GTL buildings are also under construction to be completed by fall 1990.

"A student housing facility provides 104 single occupancy rooms," Puttgen said. "This facility will be fully integrated with an existing 150-bed building presently operated by Supelec for its students. It is intended that European and American students will be fully integrated in the housing facility. The third building is a large house that contains three three-bedroom apartments designed for Tech faculty members during their stay at GTL."

The Technopole complex was designed to provide a suitable research environment. Roughly compared to Technology Park here in Atlanta, a researcher or student could work, play, dine, rest or exercise without leaving the property.

According to the project proposal, an education at GTL is meant to serve a dual purpose. The first is to provide an advanced level of study

in various disciplines. The other is to provide a multicultural education with the use of foreign language. Students taking courses at Supelec and universities at Metz and Nancy will be taught in French. Students pursuing the M.S.E.E. program at GTL and for whom English is not the native language must take the Test of English as a Foreign Language. Students for whom French is not the native language are strongly encouraged to take the 10-week intensive French course offered every summer by the University of Metz in cooperation with

Volunteers Needed For EDUCOM 90

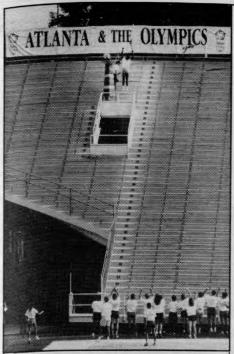
"EDUCOM 90: Preparing for the Renaissance: Computing and Communications for Technology, Science, and the Arts" will be hosted by Georgia Tech Oct. 14-17, 1990 at Inforum, and volunteers are needed to help with this conference in areas ranging from campus tours to transportation and security.

Featured speakers at EDUCOM 90 are Robert Allen, chairman and chief executive officer, AT&T; Jimmy Carter, former President of the United States; Steven Jobs, president and founder of NeXT Inc.; John Portman, chairman, the Portman Companies; and Donna Cox, artist and professor NCSA and University of Illinois-Urbana-Champaign.

EDUCOM conferences have traditionally been important forums for educators and corporate representatives who are concerned with campus computing strategy and policy, telecommunications, distributed computing, networking, microcomputers, advanced workstations, and computer applications in all aspects of teaching, research, and administration.

For more information about volunteering, contact Linda Cabot at 4-4660, via PROFS LCABOT, or via e-mail lcabot@gtri01. gatechedu.





Gary Meek

Antonio McKay lights the Georgia Intracollegiate Games torch to signal the beginning of the May 19 event. The torch was brought by a relay run from Athens, Ga. to Bobby Dodd Stadium/Grant Field.

People

Biology

In a recent southeastern branch meeting of the American Society for Microbiology, *Paul Edmonds*, associate professor, was elected as the organization's president. Edmonds will serve as president-elect during 1990 and will begin his term as president in 1991. The Southeastern Branch includes Alabama, Georgia and northern Florida.

Information Systems and Applications

John C. Holcombe recently presented a paper, "Data Entry—Let The End User Do It," to the American Association of Collegiate Registrars and Admissions Officers (AACRAO) in New Orleans, La. Holcombe presented another paper, "The Student Access System: Georgia Tech's Do-It-Yourself Project," to the College and University computer User's Conference (CUMREC) in Buffalo, N.Y.

Ivan Allen College
Milton P. Stombler published
"University-Industry Team Agreements," Journal of the Society of
Research Administrators, Vol. XXI,
pp. 21-26, Winter 1989.

Briefly...

Education Extension Courses Education Extension will offer the
following courses for June 4-6,
"GTSTRUDL: Overview and Basic
Frame Analysis;" June 7-8,
"GTSRUDL: Steel Design;" June
9-10, "How To Build Your Home;"
June 11-12, "GTSTRUDL: Reinforced Concrete;" June 11-13,
"GTSTRUDL: Advanced Frame
and Finite Element Analysis;" June
14-15, "GTSTRUDL: Dynamic
Analysis;" June 14-16, "Professional
Workshop on Development Impact

Fees," (Cape Cod, MA); June 19-22, "Modeling, Simulation and Gaming of Warfare;" June 20-22, "Principles of Site Planning," (San Francisco, CA); June 20-22, "Storm Water Management for Engineers and Planners," (Puerto Rico); June 25-29, "30th Urban Planning Institute;" June 27-29, "Negotiating and Managing Public Conflicts," (Chicago, IL). For more information, call 4-2547.

Donate Your Kroger Receipts - Techwood Tutorial Project (TTP) tutors are collecting Kroger receipts in an effort to procure computers for the two schools served by the program. Kroger will donate an IBM computer with printer for \$200,000 in receipts. Faculty and staff Kroger shoppers can assist by dropping receipts in a campus envelope to TTP, Student Center Program Area, mail code 0458.

Get Your Lakewood Tickets
Here! - Tickets for the Tracy Chapman concert at Lakewood on June
19 at 8 p.m. are on sale at Tick-ATech and are half priced at \$11
each. These are reserved seats and
not lawn seating. Tickets are
available now for students, faculty,
staff, alumni and their guests. Call
4-2805 for more information.

Academic Senate Meeting - The Academic Senate will meet Tuesday, June 5 at 3 p.m. in the Weber (SST) Building, Lecture Room 2.

Faculty Forum - Faculty and staff wishing to share their views on issues which affect Tech are welcome to send an essay to Bud Foote, chair of the Faculty Forum committee, at mail code 0165.

Dudley Named To Leadership Georgia Board Of Trustees

Sherman Dudley, associate division chief for the GTRI Economic Development Laboratory's Douglas regional office, has been selected to serve a three-year term on the Board of Trustees for Leadership Georgia. He was a 1986 class member in Leadership Georgia and was selected as a program chairman in 1987.

Leadership Georgia meets five times a year and deals with a particular state issue of wide concern at each program. Outstanding authorities speak and lead discussions designed to provide information and understanding on problems and opportunities in Georgia.

A Leadership Georgia class consists of approximately 40 representatives from the business, industrial, and professional arena and approximately 20 from other occupations such as religion, education, social services, and government.

Founded in 1972, Leadership Georgia is an affiliate of the Business Council of Georgia.

Roger Webb Named As New Director For School Of Electrical Engineering

Dr. Roger P. Webb has been named director of the School of Electrical Engineering after having served as the school's acting director for the last year.

Webb joined Tech's electrical engineering faculty in 1963 as an assistant professor. Since 1972, he has held the position of Georgia Power Company Chair Professor of Power Systems Engineering. In 1978, he was appointed associate director of the school.

Currently, Webb is involved in instructional program development and sponsored research activity in various areas of electric power. He has had several years of industrial experience in control system design with Douglas Aircraft Co. and the Sperry Phoenix Co. He is an active consultant to industry in control and power systems design and analysis.

He is a Registered Professional Engineer in the State of Georgia and a fellow of the Institute for Electrical and Electronics Engineers. He was the recipient of the Edison Electric Institute Power Engineering Educator Award in

Webb received his B.S.E.E. from the University of Utah (1957), a M.S.E.E. from the University of Southern California (1959) and a Ph.D. in electrical engineering from Georgia Tech (1964).

White Awareness Course Scheduled For Summer Quarter

The Office of Human Relations will provide its "White Awareness: Understanding Racism Workshop" during summer quarter. The fiveweek session will last from June 26-July 26 (each Tuesday and Thursday) from noon-1 p.m.

Dr. Don Bratcher, director for the Office of Human Relations, will lead the program. The overall objectives of the program are to help whites become aware of how racism affects their lives and to assist them in developing anti-racism strategies. This program is designed to help white people become free of the perspectives that have trapped them in their view of themselves and in the interactions with other whites and with members of minority groups.

For more information or to register for the program, call Janice Whatley at 4-8337.

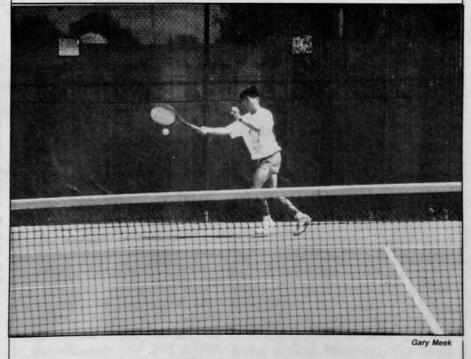
Tech's Economists Receive Recognition

Two of Tech's School of Economics faculty members recently received recognition for their books on economics.

Professor Carl Biven's Who Killed John Maynard Keynes? will be made available to a global audience later this year; this announcement was made by the book's U.S. publisher, Dow Jones-Irwin. The account of the evolution of economic policy in the postwar period will soon be translated into Japanese and Portugese, reflecting a continued interest abroad in American economic policy.

In addition, Associate Professor Thomas Boston's *Race, Class and Conservatism* was chosen by the librarians' journal *Choice* as one of its "Books of the Year," according to its publisher, Unwin Hyman.

Both Biven and Boston were delighted with their successes and are hard at work writing more.



This student gives it his best shot during singles tennis competition at the 1990 Georgia Intracollegiate Games. Over 400 college students throughout the state came to Tech on May 19 to compete in this and other events such as weightlifting, volleyball and table tennis.

What's next

ACADEMICS

June 7 - Last day to pay fees/confirm registration to retain Early Registration (Phase I) Schedule for Summer Quarter, 1990

June 8 - Last day of class June 10 - Final exam week

June 15 - Last day for (1) degree petitions and/or reactivation of degree petitions and (2) approved programs of study for Master's candidates to be received by the Registrar's Office for September Commencement

June 21 - New undergraduate students for Summer 90 report for orientation June 25 - Registration (Phase II) for Summer Quarter, 1990, fees must be paid by 6:30 p.m., June 19 or late fees will apply

ARTS & ENTERTAINMENT

June 4 - TTN, "Look Who's Talking," through June 10, Student Center, 1st floor June 11 - TTN, "Cat's Eye," through June 17, Student Center, 1st floor June 12 - Midnight Munch: ice cream, 10 p.m.-midnight, meal card free

LECTURES & SEMINARS

June 4 - College of Engineering CIMS Seminar, Joseph D. Plunkett, IBM Corp., "Modular Systems for Manufacturing Applications," 4 p.m., Instructional Center, Rm. 209

June 6 - Environmental Engineering Seminar, Lucinda Sonnenberg, Institute of Paper Science, "Reductive Degradation of Aquatic Humic Acids of Structural Characterization," 3:05 p.m., Mason Bldg., Rm. 111

June 7 - Presbyterian Center Seminar, informal lunch, no special guest, 11 a.m., lunch \$2

Structural Mechanics Seminars, W. A. Green, University of Nottingham, "Impact

Waves in Fiber Composite Laminates," 3:05 p.m., SST#2
Chemistry Departmental Seminar, topic TBA, 3:30 p.m., Boggs Bldg., B-6A

June 8 - Institute of Paper Science & Technology, M.R. Wertheimer, "Plasmas Processing: Principles & Applications," 11 a.m., Paper Science Bldg., Rm. 270

June 15 - Institute of Paper Science & Technology, J. Bond, topic TBA, 11 a.m., Paper Science Bldg., Rm. 270

GEÔRGIA TECH CLUBS, CALL 4-2391

July 4 - West Metro, Parade

July 31 - Suncoast (Tampa/St. Pete), Bobby Ross, Al Ciraldo

Classifieds

For Sale - Hayes 1200 baud Smartmodem, \$95. Excellent condition. Call Preston Bates at 528-2208 or 434-8172.

For Sale - 1982 Toyota Celica, white w/blue interior. 5-speed, A/C, cruise, A/C, cruise, AM/FM cassette. Good condition, \$2,550. Call Phillip at 471-4953.

For Sale - 1977 Toyota Corolla. Runs fine but nasty, \$200. Call 4-7047 or 633-3720.

For Rent - Full daylight terrace apt. in private home in Morningside area. \$400/mo. - includes utilities & cable TV. No pets. Call 872-3934.

For Rent - 3 BR, 21/2 BA townhouse w/2-car garage. Northlake mall area. \$750/mo. Call

For Rent - Furnished 4 BR house in East Cobb behind Merchants Walk. Garage, fireplace, pool and tennis. Non-smoking professionals or responsible grad. students only. No pets. Sept.-June, \$950/mo. Call 4-2958 (days) or 977-7323.

For Sale - Loveseat and matching chair, both in excellent condition. 85 or best offer. Call Patrice at 4-4154.

For Sale - Two Prince Precision 90 tennis rackets. Each has 4 5/8 inch grip. Graphite & fiberglass rackets. \$70 per racket. Both in good shape. Call Richard at 4-2582 or 377-0056.

For Sale - 1977 Chrysler Georgia Tech gold New Yorker. Good condition, new tires, recent extensive service, complete service records. \$1,750. Call 491-0084.

For Rent - 2 BR house w/screened porch, 6 mi. N.W. of campus. Refrigerator & stove, new carpet & paint. \$350/mo. plus utilities. Call Mr. Lilly at 4-3564 or 992-4644.

For Rent - 2 BR, 1 BA duplex, LR, DR, kitchen, fireplace. Less than 1 mi. from campus, \$550/mo. Call Kathy Fuller at 876-3062.

Free - Cute, adorable kittens, 9 wks. old, potty trained, black and white. Call Dee at 4-2452.

For Sale - 3 BR, 2 BA house family rm. w/fireplace, screened porch, 34 finished bsmt., laundry/work rm., appliances included. Brick ranch near I-85 and Northlake, 15 min. from Tech via Briarcliff & Shallowford. Walk to Marta. Priced to sell. Call Jane at 4-2362 or 634-2791.

For Sale - Boy's 24 in. racing bike, red, good condition, 10-speed, needs a tube, \$30. Four pair cream flame-stitch damask drapes, lined, beautifully tailored, fits standard windows, \$80. Matching rods available. Call Edith at 4-8756 458-2473.

For Rent - Large furnished house between Lilburn and Stone Mountain. Available July 1, 1990 through April 1, 1991. Very reasonable rent for the right occupants. Call Mark at 4-4584. Leave message.

Sign Up For Summer Space Camp

Georgia Tech and the Atlanta Public Schools are cooperating in a one-week summer day camp for middle school students that focuses on space exploration and related sciences.

The Georgia Tech-Walden Middle School Science/Space Camp will be held the week of June 18-22 for students from the Atlanta system's 14 middle schools. Children of Georgia Tech faculty and staff are also invited to participate.

The camp, which will be based at Walden Middle School in downtown Atlanta, will feature field trips to the NASA facility at Huntsville,

Ala., to SciTrek, to Zoo Atlanta for its birds of prey show, to a planetarium and to the Georgia Tech campus. In addition, campers will engage in hands-on activities like building and launching their own model rockets.

Normal drop-off time for campers will be 8:-8:30 a.m., with pick-up from 5:-5:30 p.m., with the exception of the trip to Huntsville, which will involve a longer day.

For information or to enroll their children, Georgia Tech employees should call the Civic Affairs Office at 4-5188.

Nominees Being Taken By CETL For Lilly, Amoco Teaching Programs

The Center for the Enhancement of Teaching and Learning (CETL) will be sponsoring two new teaching initiatives on behalf of assistant professors who have not yet achieved tenure. These new opportunities are the Lilly Foundation Teaching Fellowship Program and the Amoco Foundation Teaching Excellence Awards.

The Lilly program, which emerged nationally in 1974, enables untenured assistant professors to learn about, reflect on, and develop teaching expertise. Up to eight assistant professors who have been at Tech at least one year and who are on tenure track are eligible for consideration.

Each of the fellows will work with a mentor in his/her field; an annual \$7,000 award will be awarded to each fellow. One-half of the money will go to the departments of the respective fellows to help compensate for their reassigned time. The remaining half will be awarded to the fellow to aid in their teaching research project, relevant travel, and/or student assistance.

A pair of Amoco Junior Faculty Teaching Excellence Awards will be presented annually beginning this coming September. The awards will go to two Tech assistant professors who have not yet achieved tenure, yet have already distinguished themselves in the classroom and/or laboratory.

Each award will consist of \$1,500 and a certificate; they will be presented at the New Faculty Orientation dinner prior to fall quarter registration.

In supporting this award, the Amoco Foundation wishes to promote, develop, and recognize outstanding teaching, particularly among untenured faculty who are in their early years of academia.

CETL invites nominations from deans, directors, department heads, or from colleagues and students. All nominations should be sent to CETL, Swann Bldg. 108, mail code 0383; for more information, call 4-4474. Lilly program nominations are due by June 30, and Amoco award nominations are due by July

whistle

News for the Georgia Tech Community Charles Harmon Editor Gary Meek.....Photographer

Publication is every Monday during fall, winter and spring quarters and biweekly summer quarter. Deadline is Friday noon, 10 days before publication. Address: News Bureau, mail code 0181 (Wardlaw Center, 177 North Avenue), 894-2452. Tech PROFS computer users may file news items with the News Bureau by sending electronic mail addressed JLNEMETH. Cost/\$685

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