



Whistle

THE GEORGIA TECH WHISTLE

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NSF's John A. White Speaks On "Going For The Gold" In Higher Education

(Dr. John A. White, assistant director of the National Science Foundation, was the featured speaker at Tech's summer commencement ceremonies. White is also a Regents' Professor of Industrial and Systems Engineering and a Eugene C. Gwaltney Professor of Manufacturing here at Tech. His address to the summer quarter graduates was entitled "Going for the Gold." Part of his address is below.)

"...At the end of your day, not the current 24-hour day but the day you have on earth—for some it will be a very short day and for others it will be a very long day, indeed—at the end of your day, you will be

both glad and sad. You will be glad you took certain courses at Tech and you are sad that you didn't take other courses. I hope that something I say regarding the education crisis facing the nation will prove to be one of those pebbles you put in your pocket and it turns into gold for you and for America.

"I'm sure most of you are familiar with the education summit held in Charlottesville, Va. Following the summit, President Bush established the goal of America's high school graduates leading the world in math and science by the year 2000. For the U.S. to "go for the gold" and become first in the world in math and science in 3,402 days is a more challenging undertaking than President Kennedy's goal of putting a man on the moon in 10 years. A big difference in the two challenges is that the moon stayed in the same relative position; the target was fixed. However, in the "education race" the target is moving away from us! Not only is it a great challenge because of the distance we have to overcome in 10 short years, but also it is tough because the "competition" is not going to sit still while we improve.

"I truly believe that education is the key to America's future. Further, I believe that technological excellence is essential for a nation to be world-class. In the year 2010, will science and technology be more important or less important to America's future than they are today? I'm sure you believe that strong science and technology are critical to the nation's future. If so, then who will be America's engineers and scientists in the year 2010? All possible candidates are alive today. Unless significant changes occur in Americans' career choices, we will face a serious shortage. Science and engineering are not selling in today's market and

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Gary Meek

The "College of Sciences Zoo Day" featured lions, tigers, bears and a visit from a bald eagle during the "Birds of Prey" show. The college's faculty, staff and their families enjoyed a picnic dinner and Zoo Atlanta's many attractions on Oct. 3.

College Of Sciences Gather At Zoo Atlanta; Karlovitz Science Seminar Fund Established

By Pam Rountree

On Oct. 3 the lions and tigers were growling, the sea lions were honking, Scarlet the elephant was trumpeting and Willie B. was perched on his boulder as members of Tech's faculty, staff and their families enjoyed a "College of Sciences Day at Zoo Atlanta" in what Interim Dean Robert Pierotti said he hopes will become a yearly event.

Those attending the festive occasion were also treated to a chicken picnic dinner under a tent next to the bear habitat. Buzz also dropped by for a few minutes to entertain the children—both young and old.

Pierotti, during a special announcement, told the gathering that there were two reasons for having the College of Sciences (COS) day at the zoo: "It seemed appropriate that the first official meeting of the COS be held where you see science all around you; you

see it in every leaf you look at and in every animal you see."

"The second reason we are gathered here is to pay honor to our colleague—Les Karlovitz [former dean of the College of Sciences and Liberal Studies]. He realized the importance of gathering everyone together."

Zoo Atlanta Director Terry Maple, who is a psychology professor at Tech, said he also wanted to "pay tribute to Les Karlovitz. Les believed in the zoo and supported my work here."

When Maple took over the zoo's directorship, he and the employees "set out to make Zoo Atlanta good for the community. We wanted the zoo to be user friendly for the animals and for the people too. The facility is well balanced. We have a unique zoo due to the involvement of scientists from Georgia Tech, the University of Georgia, Emory University and Tuskegee Institute.

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Gold...

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are unlikely to sell in tomorrow's market unless significant changes are made in both the products themselves and in strengthening America's K-12 education system.

"By the year 2010, 80 percent of those entering the work force will be women, Blacks, Hispanics and new immigrants. In the past, engineering and science have not been the career choices for women, Blacks or Hispanics. In engineering, for example, approximately 15 percent of B.S. graduates are women, 3 percent are Blacks, and 3.5 percent are Hispanics. At the graduate level, the situation is worse, 13.6 percent of the M.S. degrees go to women, 1.6 percent go to Blacks, and 1.8 percent go to Hispanics. In terms of doctorates, 8.8 percent go to women, 0.6 percent go to Blacks, and 0.7 percent go to Hispanics. The situation is no better on engineering faculty where 2 percent are women, 1 percent are Blacks, and 1 percent are Hispanics.

"To complicate matters further, engineering is losing its appeal to all students, regardless of gender or ethnicity—for the sixth year, engineering enrollments have declined nationally. One study found that of 40,000 minorities who enrolled in engineering as freshmen, only 14,000 were still pursuing engineering a year later.

"The nerd images of engineering and science, coupled with the perception of a boot camp mentality among engineering and science faculty and the increasing appeal of other, less rigorous fields, is impacting our profession. The "weeding out" mind-set that has persisted in many fields must be replaced with a "cultivating" mind-set. We have transitioned from a seller's market to a buyer's market, and today's young people aren't buying what we sold in the past. Rather than continuing to refine the selection

processes in the university, we should concentrate on improving development processes. The United Negro College Fund's advertisement is very accurate, a mind is a terrible thing to waste.

"For more than 200 years, America has survived on a deficit trade policy for human talent. We depend on a continuing ability to import the world's best and brightest students and convincing them to remain in this country as practicing engineers and scientists. To illustrate our dependency on importing human talent, currently, approximately 55 percent of those who receive doctorates in engineering were not born in the U.S. and nearly 60 percent of assistant professors in engineering were not born in the U.S. Yet, as other nations strengthen their engineering educational system it will be increasingly difficult for us to attract the world's best and brightest to study in and remain in America.

"Unfortunately, many decision makers in industry, academia and government do not appear to understand the long-term impact of an erosion in the human talent pool in science and technology. Increasingly, industry is contracting for engineering and scientific services abroad, universities are placing greater emphasis on cultural literacy than technology literacy, and many within the federal government are avoiding coming to grips with the role of government in the general area of technology. (Any government official who would say that semiconductor chips are no more important to the nation's economic survival than potato chips, that chips are chips, clearly does not understand the long-term benefits to America of a strong technology base.)

"What can we do to improve the situation? In some ways, it is as simple as A,E,I,O, and U.

First, A...

"Actively engage the K-12 educational process. Georgia Tech has a

responsibility to help improve the K-12 system; as educators, as taxpayers, as citizens we must participate. As alumni, you must also participate.

"The scientifically and technologically educated segment of our population must become an active force for improving the overall education system. Your time, talent and treasure are essential to completing the task of making America first in math and science in 3,402 days. We either pay now to improve education for all of our citizens or we pay for it later—and the deferred cost will be much greater!

"The social cost to the nation of an uneducated workforce is evident daily. Atlanta's crime statistics point to the price of under-investing in education; the problems of drugs and the inadequate housing for the homeless carry a heavy cost for us all. The overcrowding of our prisons is endemic of a society that does not insist on quality education for all peoples. The recently released report card from the American Association of Parents and Children gave Georgia an 'F'; the grade was based on student-teacher ratios, per-pupil spending, graduation rates; and S.A.T. scores. Martin Luther King Jr. was correct when he asked, "How long, oh, how long, America?" There is a verse in the Scripture that states that to whom much is given, much is expected. We have been given much, much is expected!

Second, E

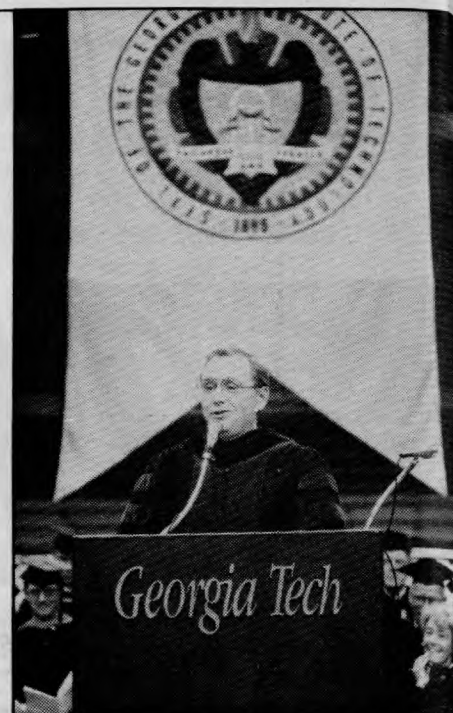
"Educate others regarding the value to the nation of a strong scientific and technological education and research capability. A salesperson who does not believe in the product cannot be effective—if you believe in the product, communicate the excitement and satisfaction associated with science and technology. (Students are in the best position to influence the career choices of other students; so, pass the word!)

Third, I

"Improve our product; help us redesign our product to make it more attractive for tomorrow's market. You are in the best position to provide feedback, having just completed the degree program.

Fourth, O

"Organize support for improved scientific and technological education and research; let your elected governmental representatives know the benefits of technology and science to the citizens they represent; be active professionally. Become active in your Yellow Jacket Club and get them to participate in the nation's education race.



Margaret Barrett

Dr. John A. White, assistant director of the National Science Foundation, was the featured speaker at Tech's summer commencement ceremonies on Sept. 7. White is also a Regents' Professor of Industrial and Systems Engineering and a Eugene C. Gwaltney Professor of Manufacturing here at Tech. He emphasized the importance of "Going for the Gold" to the summer quarter graduates.

Fifth, U


"Understand the difference that you can make. Too often, because the task is so formidable and there is no magic bullet for a quick fix, we leave it to someone else to solve the problem. We can no longer afford to wait on someone else. Get involved! Make a difference! Be a role model for future generations of college-bound students; be a role model in the classroom, in the research laboratory, on the factory floor, in the corporate board room, or on the legislative floor.

Thank you for your time and attention. God Speed and a long, safe journey through life as you "go for the gold."

Library Hosting Patent Exhibit

The Georgia Tech Library and Information Center is featuring an exhibit marking the bicentennial of the U.S. Patent and Trademark Office and patents by Georgia Tech alumni. The exhibit is located on the first floor, West Building, just as you enter the building. It will be on display until Oct. 30, 1990.




NATIONAL
HIGHER
EDUCATION
WEEK



U.S. President George Bush has established the goal of America's high school graduates leading the world in math and science by the year 2000, said Dr. John A. White.

J. Edgar Rhodes Addresses System Needs To Deans, Vice Presidents

(Editor's Note: J. Edgar Rhodes is the chairman of the Board of Regents. In this recent speech, Rhodes stressed to University System vice presidents and deans about the need to promote higher education throughout the state).

"I appreciate the opportunity to be with you again this year and to bring you greetings from the Board of Regents. Some things get better the second time around, but I will have to reserve judgment about serving a second stint as chairman of the Board. How easy my job will be depends a great deal on how well you do your jobs on the campus.

"Today, I ask that you indulge me with a chance to talk about two of my concerns that dramatically impact higher education in this state. They are funding, or lack of it, and the lack of understanding of the role higher education plays in Georgia.

"Not long ago, your president received a letter from the Chancellor directing them to show how they might handle a 5 percent budget reduction during this fiscal year.

"That news, I assume, was not greeted warmly on the campuses. I am equally sure that it also concerned those of you in academic affairs, since most of your commitments have been made for the upcoming year.

"Although some years have been rewarding for higher education, the recent pattern shows that our share of state funds has been eroding. And in the years ahead, it will be harder to get more money from the state.

"The problem for our faculty is compounded by increases in health insurance, social security, and the various tax burdens that they must shoulder. Not long ago, several of my fellow Regents expressed con-

cern over the benefits we offer in the University System. For example, we have discovered that the 25 percent health insurance contribution we require is about 50 percent higher than the average contribution required in other employee plans.

"Salary and benefits are not the sum total of the System's budget concerns. Another on the list are the buildings on the campuses where you work. Not only are existing buildings in trouble, but the future growth of the System may be severely limited by the lack of money available to build new facilities.

"We are caught in an aging System with little additional money in sight to repair and preserve the already hefty investment made by the state in our campus buildings. Many of our institutions have reached a critical point. We hear of faculty offices being created under stairwells. Bookstores operating out of trailers. Poor ventilation in science and laboratory areas.

"Why are we struggling so much? I can think of a few reasons. But the one I'd like to address today has to do with public support. I believe that, aside from the heroics of some sports teams, the general public has little interest in the University System.

"And we can't seem to get across the message that, without a strong system of higher education, Georgia would fare far worse in attracting business and industries to the state as well as keeping the ones already here.

"Most people simply think of higher education as the granting of college degrees. They don't see the continued efforts we make to retrain employees needing additional work skills...the local economic impact that we make on the 34 communities where our col-

leges are located...the cultural impact that we have by bringing art, music and drama to local areas. To lessen the state's commitment to the University System of Georgia is the same as pulling the wings off a sparrow and then expecting it to fly.

"Because we have to regain our competitiveness with others for what appears to be a declining amount of funds, we must take some cues from the real world. We must talk about the value of education—the monetary value, the lifelong value, the intrinsic value, the societal value. If we need to do this with advertising and more aggressive public relations, so be it. We must shout our message so that all Georgians can hear it. An uneducated or undereducated populace will not serve this state as we enter the next century."

"New Media: New Messages?" Seminar Coming Oct. 22

On Monday, Oct. 22, Georgia Tech is providing a forum on how technology has affected, and is likely to affect, the news media and why increasing technological sophistication has not overcome public apathy toward national and international events. The day-long event will take place at the Gordy Room in the William C. Wardlaw Center.

Joining in a panel discussion (12:30-2 p.m.), "Media's Impact: A Global Village or Village Idiots," will be *Newsweek* Senior Writer Jonathan Alter; *Wall Street Journal* Senior Editor Joe Boyce; National President of the Society of Professional Journalists Carolyn Carlson; Haas Group Inc. Publisher Marshall Haas; Harte-Hanks Communications President and CEO Robert Marbut; and *Atlanta Journal and Constitution* Publisher Jay Smith. This session will be moderated by CNN Executive Vice President for News Gathering Ed Turner.

The morning portion of the seminar begins at 9 a.m. with Tech President John P. Crecine providing an overview of Georgia Tech's multimedia/telecommunications activities. This will include demonstrations and discussion of new media systems developed by Tech and used by the Atlanta Organizing Committee to promote Atlanta's successful bid to host the 1996 Summer Olympics.

Additionally, presentations will be made by representatives from Carrollton City High (Georgia) on innovative uses of computers in their classrooms. Also, four industry representatives will provide a technology forecast and discuss various educational applications.

James Brittain And His Students Earn Various Honors

The Radio Club of America recently announced that two Tech students are the recipients of first and second prize in the Edwin Howard Armstrong essay contest established to honor this pioneer of radio development. In addition to cash awards, both essays will be published in *The Proceedings of the Radio Club of America*.

David L. Morton Jr., a graduate student in the Technology and Science Policy program concentrating in industrial history, will receive the first prize of \$1,000 for his essay, "Edwin Howard Armstrong and the History of FM Radio." The second prize of \$750 was awarded to Benjamin Vickery, a senior in mechanical engineering, for his essay, "Edwin Armstrong: An Individual Against a Bureaucracy."

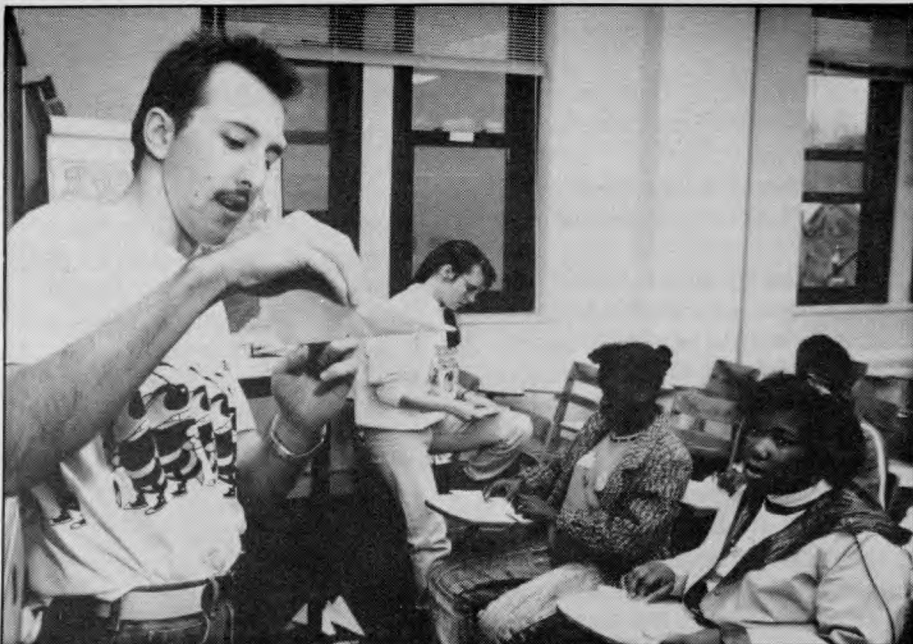
Both essays were researched and written under the supervision of Dr. James E. Brittain, associate professor in the Department of History, Technology and Society. One of the world's leading authorities in electrical history, Brittain is a Fellow of the Radio Club of America, a Fellow of the IEEE, and winner of the IEEE Centennial Medal in 1984.

This past year, Brittain won the Ralph Batcher Memorial Award given by the Radio Club of America "for his efforts in preserving the history of radio and electronic communication." Brittain has also recently been named associate editor of the *Proceedings of the IEEE*, and beginning in January 1991, he will have a regular column on electrical history in that journal.



File Photo

By the year 2010, 80 percent of those entering the workforce will be women, Blacks, Hispanics, and new immigrants, according to Dr. John A. White. During his commencement speech, White stressed the importance of making engineering and science fields more attractive to all prospective college students.



Gary Meek

Jeff Mikel (L) and Gayle Goss (in background), student instructors for "Teach for America," show C.W. Hill Elementary School students the fine art of paper airplane making. Tech's chapter of "Teach for America" is one way for the Institute to make a difference in young students' lives.

Tech Prepares For The Renaissance As EDUCOM '90 Goes Into Full Swing

By Jackie Nemeth

"Preparing for the Renaissance: Computing and Communications for Technology, Science and the Arts" is a fitting title for the EDUCOM '90 conference coming up Oct. 14-17 at the Inforum. Georgia Tech and Atlanta, the host institution and host city respectively, have also embarked on a renaissance of sorts, as they have become the Olympic Village and host city for the 1996 Summer Olympics.

EDUCOM '90 is generally acknowledged as the biggest and best general meeting on information technology policy, trends and applications in higher education. EDUCOM '89 in Ann Arbor, Mich. attracted more than 3,200 representatives of higher education, industry and government.

The 3-D Olympic Video, an instrumental part of successfully bringing the 1996 Summer Olympics to Atlanta, will be featured among the many exhibits at Inforum.

EDUCOM '90 featured speakers and their topics include: Jimmy Carter, former president of the U.S., on "Global Communication: Role of United States Universities;" Steven Jobs, CEO of NeXT Inc. on "Interpersonal Computing for the 1990s;" Robert Allen, chairman and CEO at AT&T, on "Technology for a New Renaissance;" and Donna Cox, associate professor, School of Art and Design, University of Illinois at Urbana-Champaign and associate director of Education, National Center for Supercomputing Applications, "Preparing for the Renaissance: Computing and Communications for Technology, Science and the Arts."

In addition to hosting EDUCOM '90, Georgia Tech will be well represented by several session presenters. They include:

Dr. Uzi Landman, Regents' professor in the School of Physics, will present "Computing Simulations: The Next Best Thing" on Oct. 15 from 11 a.m.-noon,

Dr. Norberto Ezquerro, senior research scientist in the Office of Interdisciplinary Programs, will present "Two Views of Modern Computer Graphics" on Oct. 16 from 10-11 a.m. Landman will present this session with Arthur Olson Sr., staff scientist, Department of Molecular Biology, Research Institute of the Scripps Clinic.

Rosemary Watkins, assistant to the vice president and dean for Student Affairs and coordinator for the disabled and Non-Traditional Students Program, and **Karen Bibb**, president of Tech's Society for Disability Awareness and a graduate student in the School of Aerospace Engineering, will present "Equal Access to Software for Instruction (EASI)" on Oct. 17 from 8:30-9:30 a.m. Watkins and Bibb will present this session with Darola Hockley, formerly coordinator of Adaptive Computer Technology Center at the University of Missouri-Columbia.

Dr. Joseph E. "Tim" Gilmour, executive assistant to Tech President John P. Crecine and vice president for Strategic Planning, will present "Competitive Strategies for Information Systems" on Oct. 17 from 10-11 a.m. Gilmour will present this session with Lee R. Alley, assistant vice president, Information Resources Management, Arizona State University, Academic Affairs, Provost Office.

Tech Trek — Georgia Tech's lineup of tours and demonstrations during the afternoons of Oct. 15-16 will include: Manufacturing Automation Research, Automated Guided Vehicle Laboratory, Material Handling Litton Laboratory, Georgia Tech Campus Geographic

Information System, Flexible Automation Laboratory, Aerospace Experimental Facilities, Flight Simulation Demonstration, Programmed Printing and Weaving—Old and New—Demonstration, Fabric Defect Analysis System Demonstration, GTNET Fiber Optic North Interconnect Facility, Classroom 2000, the Office of Information Technology, the College of Computing, and the Vision Laboratory. Many other demonstrations will also be taking place at the Library.

NAB Welcomes 12 New Members

Georgia Tech's National Advisory Board (NAB) recently announced its 1990 addition of 12 new members to the board. Making the announcement was Vice President of External Affairs James M. Langley, who also serves as secretary of the NAB.

Terms of office are three years for regular members and one year for students (this marks the first time students have been named to the NAB). Members may serve two consecutive terms.

The NAB is one of Tech's most prominent organizations. Its members, who are some of the nation's top executives and Tech students, meet on campus twice a year to advise and assist the school's administration in policy and financial matters. The NAB acts as a "sounding board" to serve the best interests of Georgia Tech.

1990 appointees include:

Friends & Alumni: John E. Aderhold, president of Rayloc, a division of Genuine Parts Co., Tech BSEE (1945) and MSEE (1967); Tomas Furth, friend of Tech who is president of Sudamtex de Venezuela C.A. and a member of the board of directors and senior

vice president of United Merchants & Manufacturers Inc.; Dr. L. Jay Oliva, friend of Tech who is chancellor New York University; Egbert Perry, friend of Tech who is president of H. J. Russell and Co.; Gen. Bernard W. Rogers (USA Reg.), friend of Tech who was stationed at Supreme Headquarters Allied Powers Europe (SHAPE); and Alfred P. West Jr., chairman president and CEO of SEI Corp., Tech BS in aerospace engineering (1964).

Students: Caroline L. Campbell, industrial and systems engineering; Michael V. Cowan, management; Jennifer L. Fordham, management service; N. Blake Patton, electrical engineering; Cedric T. Stallworth, electrical engineering; and R. Stevenson Walker, computer engineering.

Tech's Imaging Consortium To Host Demonstration

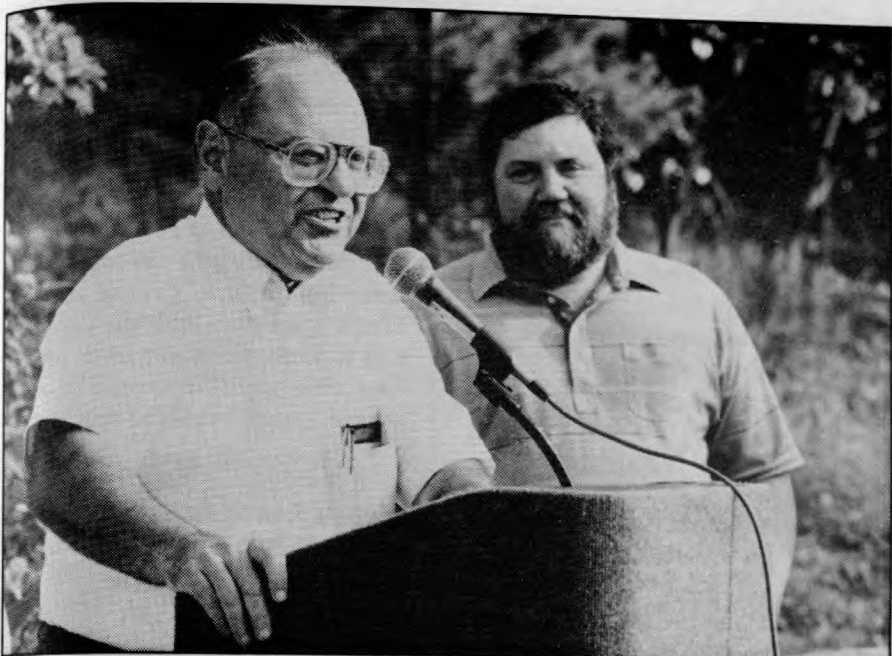
The Georgia Tech Imaging Consortium invites members of the Tech community to view demos of its work and to tour its facilities. Both of these events have been set up in conjunction with EDUCOM '90. The tour will run continuously from 1:30-5 p.m. on Monday and Tuesday, Oct. 15-16, in Rms. 259 and 270 of the College of Computing.

The demos and tours will feature facilities of the Animation, Computer Graphics, Medical Informatics, and Scientific Visualization Labs. On the same days, the demo will be set up in the Neely Lobby of the Library and will use a graphics superworkstation to display examples of interactive stereographics applied to visualizing scientific and other data. The demo times are 1:45, 2:45 and 3:45 p.m. on both days.



Gary Meek

Earlier this year, "Teach for America Day" was very successful among its 60 participating fifth graders from C. W. Hill Elementary School and the Tech students who were the instructors for the program. "Teach for America," a nationwide organization, provides educational opportunities for children in the nation's inner cities and rural areas. Here Tracy Hogan (L), a Tech student instructor for Teach for America, plays a tune for Trenisha Jones during one of the day's classes.



College of Sciences Interim Dean Robert Pierotti (L) announced a College of Sciences Seminar Series to be named after former Dean of the College of Sciences and Liberal Studies Les Karlovitz during the "College of Sciences Zoo Day" on Oct. 3. Zoo Atlanta Director Terry Maple (in background), who is also a psychology professor at Tech, was also in attendance.

Gary Meek

Human Relations Awareness Week Begins Today!

The week of Oct. 15-19 has been designated Human Relations Awareness Week at Georgia Tech. During this week you will be seeing posters, flyers and PROFS messages informing you of activities designed to bring faculty, staff and students together in a spirit of acceptance, volunteerism and sensitivity towards the difficulties others may be facing on this campus.

All are encouraged to participate in these events — some of which will not only be entertaining, but will cover some hard hitting social issues and provide much food for thought. Each day will provide a different focus. Listed below is a synopsis of what to expect on each day of this very important week.

Mon. Oct. 15 - Kick-off Picnic, 11:30 a.m., picnic in front of Student Center. Get a hot dog, chips and soft drink for \$1. President John P. Crecine to speak at noon; 2 p.m., Panel Discussion with Middle Eastern students regarding racial attitudes and the Gulf Crisis, Student Center, Rm. 343; 7 p.m., Movie, "Hairspray," Student Center Theatre, FREE. For more information call Billie Pendleton-Parker at 4-4474.

Tues. Oct. 16 - World Hunger Day, 11 a.m., presentation by Bill Bolling, director, Atlanta Community Food Bank, Student Center, Rm. 301; 7 p.m. Movie, "Witness," FREE, Student Center Theatre. There will be receptacles available in the residence halls, the Student Center and in the Library for donated dry and canned goods. For more information call Dr. Greg Nobles at 4-7447.

Wed. Oct. 17 - Violence Awareness Day, noon, Panel discussion on rape, child abuse and

family violence, keynote speakers, Kimberly Kennedy, WSB-TV reporter of "Victims of Crime" Student Center Theatre; 2 p.m., AIDS Education Session, Student Center, Rm. 343; 7 p.m., Acquaintance Rape & Safety Program, Field Residence Lounge; 7 p.m., Movie, "The Accused," FREE, Student Center Theatre. For more information call Eunice Kelsey at 4-6972.

Thurs. Oct. 18 - Disabilities Awareness Day, 12:30 p.m., Student Center, Rm. 320. High-level administrators at Tech have been invited to spend an hour on this day traveling across campus as a blind or otherwise physically disabled person. The goal is to impress upon them the physical problems that can be changed or prevented by better planning. 7 p.m., Movie, "Do The Right Thing," Student Center Theatre, FREE. A discussion period will follow immediately after the movie. For more information call Karen Bibb at 4-3066.

Fri. Oct. 19 - Community Action Awareness Day, 11 a.m., Display Fair, Sidewalk in front of the Student Center. Various organizations will be represented to provide information on social issues including child and spousal abuse, hunger, literacy, and hospice. Viewers will be able to become a registered volunteer for the organization of their choosing at this time. 7 p.m., Movie, "My Left Foot," FREE, Student Center Theatre. For more information, contact Sally Hammock at 4-2805.

Send Those Receipts!

Help Techwood Tutorial Project help others — send your Kroger receipts to TTP at mail code 0458. This is part of a student-organized, campus-wide effort to raise \$400,000 in receipts to get computers for the two schools served by the program.

Sciences...

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"The zoo will be part of the Olympic movement too," Maple said. "The zoo is a dynamic environment and Georgia Tech will always be an important part of it."

With Les Karlovitz's wife, Julie, in attendance too, Pierotti made the announcement of a College of Sciences Seminar Series to be named in honor of Karlovitz (the Les Karlovitz Sciences Seminar Fund).

On Oct. 4, Pierotti distributed a memo to colleagues, members of the COS and friends and acquaintances of Les Karlovitz asking their support for the new seminar series.

"There is a 'window of opportunity' for most human endeavors," he wrote. "Les Karlovitz spoke to me of his 'window of opportunity' shortly before he died."

"There is a 'window of opportunity' for us now to remember and preserve one of Les Karlovitz's most appreciated contributions to us—the COS Seminar Series. This series of seminars was designed to increase and broaden communication among the schools and departments of the college by bringing us together in a more or less informal social atmosphere to celebrate our individual and collective achievements and to enjoy our camaraderie and friendships—to foster the human qualities of our college," Pierotti continued.

"It is this human aspect of our community that is perhaps most lacking in the modern fast pace of teaching and research. We can preserve some of this by formally establishing a fund and charter to carry on the tradition set forth by Les Karlovitz."

"The income of this fund," Pierotti explained, "is to be used to foster communication and collegiality among the faculty, staff and students of the COS through the following: 1) providing funding to host the COS Seminar Series, a quarterly seminar program of lectures and presentations by members of COS faculty and staff; and 2) providing funding to host lectures and special events which foster teaching and research in the sciences and mathematics."

After funding these two items and if the income of the fund permits, Pierotti said it would also "provide funding for scholarship awards to members of the faculty, staff or students of the college for outstanding achievements or contributions."

Those wishing to contribute to the fund may give in the form of a check payable to the Georgia Tech Foundation—Karlovitz Seminar Fund and send it to Dean, College of Sciences, Georgia Tech, Atlanta, Ga. 30332-0365.

Student Assistant In March, Assistant Director In August

Who ever thought that a part-time management student in the Recruitment Office would graduate and reappear before the end of the year as one of the new people in charge of things?

Scott Verzyl, a student assistant less than 6 months ago, is now the assistant director of Undergraduate Recruiting. According to Phyllis Eginberger, an administrative assistant in the Registrar's office, this is a very unusual promotion.

"I felt that the things I was doing then should have been done by a staff person," Verzyl said. "I feel that this was a natural move. I'm happy to be here."

The assistant directorship is a new position created by the special task force created by President John P. Crecine to address aggressive student recruiting. Verzyl's responsibilities will include designing recruitment programs in high schools, two-year colleges and alumni clubs. He will assist in developing promotional material, counsel prospective students and parents, and coordinate on-campus activities for prospective students. He is also charged with increasing alumni involvement in the recruitment process.

"On a busy day we will have as many as fifty people come in for information," Verzyl said. We do a lot of travelling to high schools and smaller towns. I plan to do a good bit of travelling during the fall to career and college fairs. We also do a lot of large mailings to prospects."

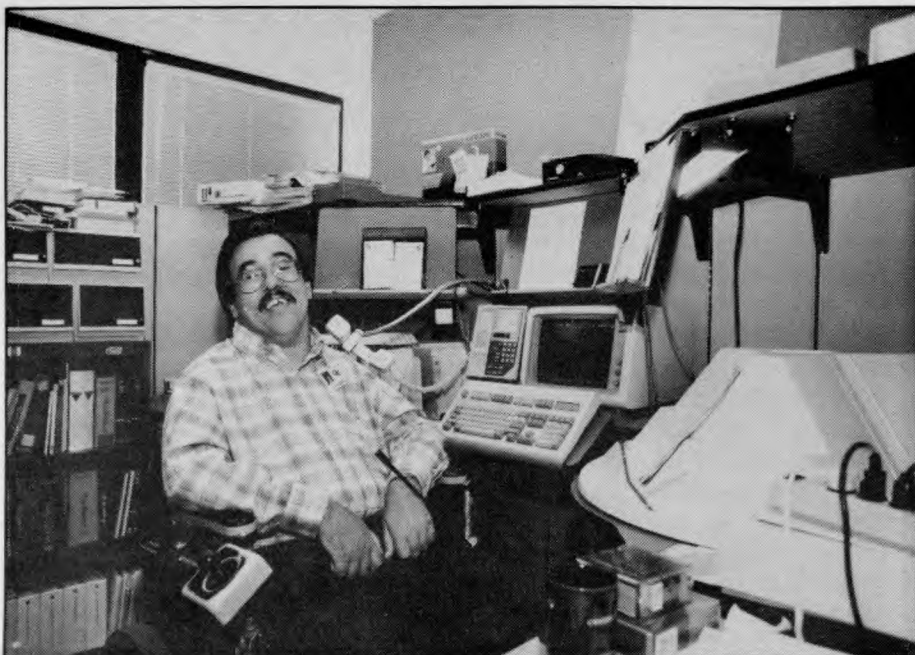
Verzyl, who was the campus tour coordinator as a student, said that the demands of the office required additional personnel. Until Verzyl's promotion, the Recruiting Office had consisted of three employees.



222-TECH

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Billy Banks

Larry Howard is an associate coordinator in the Computer Access Lab at Tech's Center for Rehabilitation Technology.

Larry Howard On United Way Support: "Sometimes It's Just The Attitude"

By Vera L. Dudley

During this year's Charitable Campaign efforts, you will probably be contacted by a representative to make a general donation (to the whole United Way organization) or a restricted donation (to a preferred United Way agency). Each year, many people within the Tech family who contribute to United Way causes are completely unaware of the fact that the person benefiting from the donation may be a co-worker or someone they make frequent contact with throughout the course of a year.

One of the numerous organizations funded by the United Way is Goodwill Industries which exists to do much more than provide clothes for the needy—an operation which most people identify Goodwill with. One of Goodwill's missions is to increase employment opportunities for people with disabilities through job training, work adjustment programs and sheltered employment.

Larry Howard, an associate coordinator in the Computer Access Lab at the Center for Rehabilitation Technology, knows all about the Goodwill cause. It was one of their educational programs that trained him to be a top-notch programmer. With the use of equipment specially adapted to accommodate a quadriplegic like himself, he now uses the training to develop software that will help make life a little easier for people like him. The courses at the Georgia Computer Campus in Buckhead are especially designed to prepare severely handicapped people for the work force. An extremely intensive program, the applicant must endure a tough screening process to determine whether or not he/she has the stamina, intellect or personality to complete the course and perform in

a corporate environment. Howard was the first in his class to be hired.

"At the time I entered the course I did not believe that I would get a job," Howard says. "But after hard work and training, I felt I would become so valuable that no one could afford not to employ me. I became confident in my programming and problem solving abilities."

An optimist, Howard prefers not to be a rebel representing all physically disabled persons on campus or dwell on the difficulties of getting around campus in a wheelchair. He prefers to view the situation from another angle.

"I'm not much of an activist," Howard says. "I'm a problem solver or a suggestor. I would like to see some general problem solving. Instead of solving a problem just for me, why not solve a problem for many? For example, studies have shown that for every curb cut, about 8-10 other people besides the people in wheelchairs use them."

According to Howard, working at Tech has enabled him to meet people who have proven that support can come in many different forms. Sometimes, he explains, it is all in the attitude.

"As long as they have an attitude of willingness toward adaptation, that makes all the difference."

One of the situations that Howard finds most disturbing is the great amount of obligation some people around him feel to not only reach out, but to do so continuously.

"Sometimes people don't help because they feel that if they do it one time, that they will have committed themselves," Howard explains. "I like people to do things because they want to. People should not feel obligated. It's like being helped along the way. Like Vickie helped."

Vickie Clark, an administrative assistant and Charitable Campaign coordinator at Plant Operations, lives near Howard and has provided him with transportation to and from campus while he was being trained. She was only able to do it for a while, but her assistance was welcomed by Howard and his mother who usually drives him from their home in Douglasville to his destinations.

"I read about him in our local newspaper and it just hit me. I knew we were coming to the same place every day," Clark says. "I enjoyed him. We would get stuck in traffic and time would just fly by while we talked. The feeling that I got out of helping him was worth anything I sacrificed for six months."

Tim Abernathy, a mechanical technician and Howard's co-worker currently drives Howard to and from work and has done so continuously for about a year. Three students have also transported him at different intervals during his employment at Tech. Howard says that individuals at Tech have played an extremely important part in his life just by giving him a little bit of their time.

"I would tell people to just jump in with both feet and just do it," Clark says. "If you make yourself clear in the beginning, then there won't be any guilt feelings later."

Crecine Takes Part In Japan-America Society Panel

Tech President John P. Crecine recently participated in a panel discussion sponsored by the Japan-America Society entitled, "Atlanta, An International City in Search of Excellence: Third Term Report."

As Atlanta continues to grow, it is important to focus on what designates Atlanta as an international city. This program was the third in a series designed to evaluate that progress, with particular emphasis on facilities located within the city and what role they have played in bringing international recognition to Atlanta.

Crecine spoke about the need for an "intellectual infrastructure" during the discussion.

"This infrastructure includes research and development facilities, a well-trained work force, but most importantly, internationally-recognized universities," Crecine said. "An intellectual infrastructure is a key part of any city that hopes to be a true international center."

Atlanta is comparatively well-off in that its intellectual infrastructure is well-developed, Crecine said. Atlanta has two established,

internationally-recognized research universities in Emory and Georgia Tech, and another on the rise in Georgia State.

"In dealing with an international comparison set, excellence becomes the primary (and usually only) criteria in evaluating the intellectual infrastructure," Crecine said. "Thus, it becomes critically important to focus our resources to produce areas of excellence and to leverage those focuses as much as possible."

Crecine gave as an example a company looking for a research partner to help in its work with semiconductors. An international environment enables that firm to choose among universities in several continents and many countries. That company, Crecine said, is going to choose among the top university research leaders in that field to collaborate with.

"The upshot is that a mediocre university will likely fare very poorly in international competition, and only those research universities that develop centers of excellence will be of major value to their cities in becoming international centers."

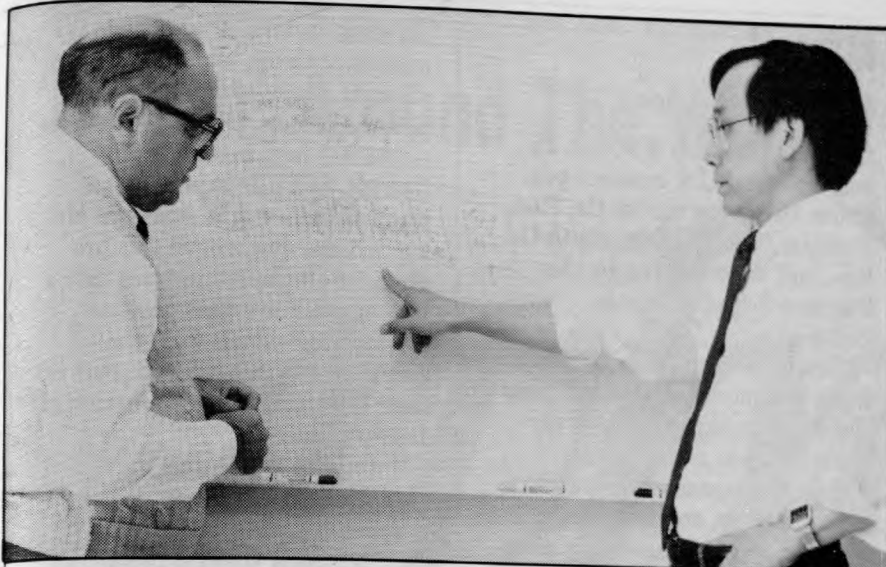
"Becoming a center of excellence goes beyond research prowess. It also includes building an internationally diverse student body and training that student body to function in an international environment," Crecine continued. "It also means that we need to put an explicit international 'twist' on our mainstream activities to keep them relevant."

"One advantage Atlanta has is that its universities and corporations in the city have a long history of close collaboration for mutual gain," he said. "That has paved the way for university relations with U.S.-based multinational firms, and we are now expanding that into multinational firms based in countries like Japan and Germany."

"In fact, if you define the 'internationalness' of a city by the representation of foreign firms in that area, universities and the intellectual infrastructure play a big role."

The 1990 Charitable Campaign Logo





Gary Meek

Interim Dean of the College of Sciences Robert Pierotti (L) discusses a chart of the academic reorganization with Acting Vice-President for Academic Affairs and Dean of Science, Prof. Chih-Yung Chien, of the Hong Kong University of Science and Technology, a newly created world-class research technological university to be opened in 1991. Chien is one of many international experts who come to Tech to discuss possible projects with Institute professors, directors, deans and vice-presidents.

Tech To Participate In A Japan-Based E-MBA Program With Other Institutions

By Charles Hyatt
Ivan Allen College

Dr. John R. McIntyre, associate professor in Tech's School of Management, is completing a feasibility study designed to inaugurate an Executive MBA program in Japan. The program will be administered by the University System of Georgia.

McIntyre and his colleagues at the business schools of Georgia State University and the University of Georgia received a competitive grant from the ASCII Corp. of Japan, one of the world's largest computer software companies. The feasibility study is researching graduate business education in Japan, finding out how and what American business

schools can provide, and planning a practical program to implement and administer a model course of study.

ASCII is constructing a science/industrial park in Sendai, a growing industrial city about two hours from Tokyo, and the company wants to locate an American E-MBA program there. The program should begin operating within two years and would be managed jointly by the three major schools in the University System of Georgia and totally funded by ASCII and other Japanese corporate sponsors.

ASCII Corp., for its part, has collaborated closely in the past with Carnegie-Mellon University in the field of artificial intelligence. While a number of American universities have exchange programs in Japan,

See MBA, page 8

Statement On Human Relations

(This message is published as an expression of the commitment of the Georgia Tech Human Relations Executive Board to value and to respect diversity on our campus. The message serves to keep our campus mindful of our mission to provide a climate of acceptance and dignity for all of our members.)

Georgia Tech is a diverse community, composed of individuals and groups with a variety of religious, racial, national, cultural, sexual and educational identities. The continuing need to deal constructively with this diversity is one of the great challenges facing us over the next two decades.

The challenge is both professional and personal. Professionally, we increase the opportunities in our lives if we are able to constructively manage and guide such diversity with tolerance. The challenge is also personal because each of us has a legacy of religious, racial, na-

tional, cultural, sexual and educational prejudices which influence our lives.

Each member of our community must be committed to the creation of a harmonious climate because one cannot be neutral to this challenge. Those who are committed to it strengthen Georgia Tech and themselves.

Individuals who choose not to commit to the challenge, via acts of intolerance, jeopardize their continued affiliation with the Institute. Those acts may be defined as attempts to injure, harm, malign, or harass a person because of race, religious belief, color, sexual orientation, national origin, disability, age, or gender.

To belong to a global society, Georgia Tech must be a pluralistic institution. Only by embracing diversity, multiformity, and variety can we gain stature, strength, and influence in that global society.

Japan-America Society Releases 1990-91 Edition Of Foreign Investment Guide

The newest edition of *The Economic Review*, a guide for foreign investment in the southeastern United States produced by the Japan-America Society of Georgia, was released on Monday, Oct. 8.

"This report was prepared in the spirit of enhancing the mutual social, cultural and economic interests for harmonious business relationships," said Robert P. Forrestal, president of the Federal Reserve Bank of Atlanta and chairman of the steering committee for the guide, in presenting the document at the Southeast United States/Japan Association Conference in Atlanta.

Among other features, the guide contains:

- Interviews with former President Jimmy Carter; Mike Mansfield, former ambassador to Japan; Akio Morita, chairman of the Sony Corp.; and Kazuo Chiba, Japan's ambassador to Great Britain and the first high-ranking Japanese official to have served in the Southeast.

- New statistics on Japanese investment in the region and the nation.

- Articles by the governors of seven southeastern states—Alabama, Florida, Georgia, North and South Carolina, Tennessee and Virginia—and the Japanese Consul General, Akira Hayashi.

- A major article contributed by Georgia Tech's Dr. Robert C. McMath Jr., associate dean of the Ivan Allen College of Management, Policy and International Affairs, on "The Spirit of Dixie."

- Summaries of interviews with Japanese businessmen in the Southeast. According to Allen Judd, senior vice president of The Yasuda Trust and Banking Co., *The Economic Review* is "a great place to begin" for the Japanese investor. "It provides a terrific overview of

the region, candid insights about the society, and specific names and addresses and phone numbers for the next step. Plus, it's bilingual," he said.

The editor of *The Economic Review* is Georgia Tech author and interviewer B. Eugene Griessman, best known for his book, *The Achievement Factors*, and his celebrity interviews.

For more information contact: Ms. Pat Bush, The Japan-America Society of Georgia, 225 Peachtree St., N.E. 710 South Tower, Atlanta, Ga. 30303. Phone: 404/524-7399, FAX: 404/524-8447. The cost of *The Economic Review* is \$19. Quantity and institutional rates are available.

Tech Alumnus Joins National Academy Of Engineering

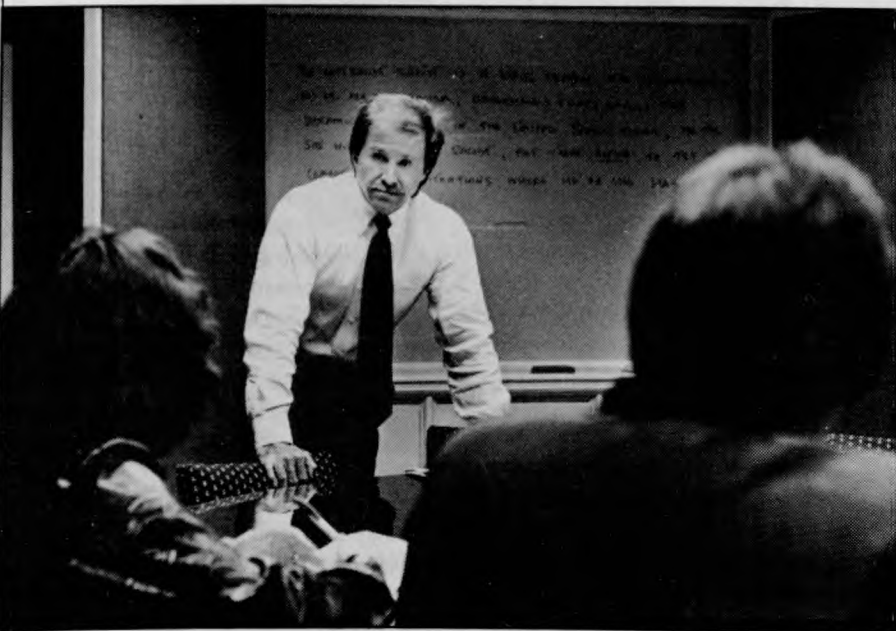
Wayne G. Clough, dean of the College of Engineering at Virginia Polytechnic Institute and State University was inducted into the National Academy of Engineering in Washington, D.C.

Academy membership honors those who have made important contributions to engineering theory and practice, including significant contributions to the literature of engineering theory and practice. The organization also honors those who have made unusual accomplishments in new and developing fields of technology.

Clough was chosen with particular recognition of his "development and verification of advanced design and analysis procedures for soil-structure interaction problems."

Job Hunting?

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



File Photo

Dr. Donald Bratcher, director for Tech's Office of Human Relations, works constantly to help provide a climate of dignity and acceptance for all members of the Tech community.

What's next

ACADEMICS

October 19 - Winter 91 Schedule of Classes data due in Registrar's Office.
October 22 & 23 - Regent's Testing Program

ARTS & ENTERTAINMENT

October 15 - TTN: "The Russians Are Coming! The Russians Are Coming!" through Oct. 21, Student Center, 1st floor.
October 16 - Art exhibit, "Buzz Into Orbit," by Eric Strauss. Recycled, cast, and fabricated metal sculpture. Student Center Gallery, opening reception Oct. 19, 5-8 p.m. Gallery Hours: Mon.-Fri. 10 a.m.-4 p.m., Sat. & Sun. 1-5 p.m.

LECTURES & SEMINARS

October 15 - Electrical Engineering Seminar, H. Puttgen, Tech-EE/Power Engineering, "Electrical Power: A Challenging & Diverse Career Opportunity" 3 p.m., Van Leer Bldg., Rm. C-457.
 College of Engineering, Tom Brown, Unisys Corp., "Measuring Performance for Strategic Improvement," 4 p.m., Instructional Center, Rm. 211.
 Chemical Engineering Seminar, Cheryl Gilmore, Georgia Tech, "Particle Nucleation and Growth in a Sterically-Stabilized Emulsion Polymerization System," and Jay Helgesen, Georgia Tech, "Particle Behavior in the Turbulent Wake of Cylinder Arrays," 4 p.m., Burger Henry Bldg., Rm. 311
October 16 - Office of Information Technology Seminar, "Introduction to Supercomputing and Networking," 5 p.m., Rich Bldg., Rm. 239, call 4-4660 to register.
October 18 - Chemistry & Biochemistry Seminar, Boggs Bldg., Rm. B6A, call Margarita at 4-8223 for more information
October 22 - College of Engineering, Wally Buran, Deloitte & Touche, "Strategic use of Technology," 4 p.m., Instructional Center, Rm. 211

ATHLETICS

October 20 - Football vs. North Carolina, 1:30 p.m., away

Classifieds

For Sale - 4 Uniroyal Tires & GM spoked rims for S10 Blazer or S15 Jimmy, \$275. Call Chuck at 4-6893 or 939-2048.

For Rent - 2 BR duplex, 5 min. from Tech. Central gas, nice kitchen, high ceilings, \$375/mo. Non-smokers only. Call 688-3766.

For Rent - 3 BR house in Home Park. Close to campus, \$575/mo. Call 874-5297. Avail. immediately.

For Sale - 1984 Cavalier, hatchback. Great condition. Call Tom at 498-5539.

For Sale or Lease - 3 BR, 2½ BA house on a quiet cul-de-sac in the Tucker area. Pool, lake and tennis club community. Perfect for children. Priced to sell. Call 24 hours a day (215) 895-6762.

For Sale - 3 BR, 1½ BA ranch close to Perimeter Mall & Chamblee MARTA Station, daylight bmnt., great room, new C/H/A, new kitchen, hard wood floors, \$110,000. Call Chuck at 4-8056.

For Sale - Leer Fiberglass camper shell for short bed pickup. Tinted sliding window on cab end, black \$350 OBO. Call Jim Woolen at 441-2642 (nights).

For Sale - Aluminum running boards for pickup truck. Never used. Flat finish with black insert strip, \$35 OBO. Call Jim Woolen at 441-2642.

For Sale - IBM PC/AT with w/1 MB memory, 80 MB hard drive, Paradise 256K graphics board and enhanced IBM EGA monitor, Microsoft mouse, Keytonics 101 keyboard. Orig. keyboard and graphics board avail. Current Boston Computer Exchange price

is \$900 w/o add-ons. Best offer. Call Jim Woolen at 441-2642 (nights).

For Rent - Beautiful 2 BR, 1 BA house w/fplc., hardwood floors, dining, kitchen, W/D, screened porch, fenced yard and off-street parking. ½ mile west of campus, \$600/mo. + dep. Call Giancarlo Pirrone at 799-8649.

For Sale - 1987 Nissan Sentra SE Sport Coupe, red/black, sunroof, JVC Stereo, A/C, automatic, new tires, excel. condit. Call Peggy at 4-3553.

For Sale - Datsun Roadster, convertible, 1968, 1600. Recent body and interior restoration, excellent mechanical condit. \$3,500 OBO. Call Bill at 4-3800.

For Rent - I-85/Indian Trail, 3 BR, 2 BA, ranch w/vaulted great rm., wet bar, fplc., huge deck, 2-car garage w/opener, many extras, \$775/mo. Call Eric at 4-8248 or 962-3486.

Roommate Wanted - Female needs roommate to share 2 BR, 2 full BA luxury apt. w/patio-porch & W/D, \$280/mo. + ½ utils. Call Shirley at 243-0654 before 5 p.m. or at 853-9500 nights except Mondays & Tuesdays.

For Sale or Lease - Immaculate 2 BR, 2 BA condo w/sunroom, fplc. w/antique mantle, sep. laundry, all appliances, upgraded carpet, 20 min. from Tech. Priced below seller's orig. price for quick sale. Call Susan Loftis at 4-4610 or 4-2518.

For Sale - Girls 10-speed bike. Nearly new, \$50. Call 739-6439.

For Sale - Chevrolet 1988, C20 high top conversion van, color TV, front/rear A/C, AM/FM/cass., all power, excel. cond., \$14,000. Call John Dunn at 4-4646 or 477-9272.

MBA...

continued from page 1

there are currently few such all-encompassing U.S. business programs there, one run by the Tuck Business School of Dartmouth College, and the other run by the Business School of Boston University.

"Graduate business education in Japan is almost non-existent," said McIntyre, an expert on international business management. "While the Japanese are world-class in science and technology, they still want very much to learn about American negotiating, investing and financial strategies, particularly in mergers and acquisitions. The program will be a boon for the faculties of the three Georgia Schools to develop new research and teaching approaches. It's also a significant opportunity for the international business communities of Japan and the State of Georgia."

The focus of the program is threefold: multi-disciplinary, including study in languages, cultures and business/financial techniques; multi-national, including Japanese, American, and other countries' perspectives; and multi-unit, combining the strongest elements of the University System of Georgia schools. The program seeks to provide Japanese and American businesspeople with an international management perspective through cross-cultural exchange.

The Japanese participants will be early/mid-career engineers and managers who have had to have had at least five years of work experience and are competent in English. The first six months will be spent on basic business classes, languages and cultural studies in Sendai or Tokyo.

Participants will then return to work for one year to incorporate what they have learned, followed by

six more months of advanced business courses, and then one year of study at one of the three Georgia schools. Over 300 Japanese companies have operations in Georgia, and it is expected that many of them might structure hiring and training around this program for employees to track into a U.S. or other overseas position. Selected individuals from the Georgia campuses will take part of their graduate business program in Japan.

McIntyre's co-principal investigators are Professor Frank Hoi and Associate Dean David Ewart, both of Georgia State University, and Dr. Robert Gatewood, chair of the Management Department at the University of Georgia. More information on this project may be obtained by calling McIntyre at 4-4379.

People

Civil Engineering

Nina M. Chou was presented a \$1,000 Incentive for Excellence Scholarship Prize (in honor of Mr. Franklin A. Mendivil) by the National Science Foundation. She ranks third with a 3.9 grade point average in her class of 153 juniors, making her the highest ranking minority student in the school's junior class.

History, Technology and Society

The June-September 1990 issue, Vol. 44, Nos. 2-3 of *Items*, the newsletter of the Social Science Research Council, announced that its committee on Foreign Policy Studies has awarded an Advanced Research Fellowship in U.S. Foreign Policy studies to **Patrick O'Heffernan**, a visiting associate professor of political science, for a comparative study of media relations and image marketing as superpower foreign policy tools in post-Cold War Europe.

whistle

News for the Georgia Tech Community

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