Atlanta And Georgia Tech In 1996: Yes!!

whistle

THE GEORGIA TECH WHISTLE

Atlanta And Georgia Tech Looking Ahead And Celebrating The 1996 Summer Olympics

(A Message From Tech President John P. Crecine)

As you may already know, the International Olympic Committee (IOC) on Sept. 18 selected Atlanta as the host for the 1996 Olympic Games. The games will most likely take place during July and August of 1996.

Atlanta's successful bid effort owes much to the extraordinary efforts of many Georgia Tech faculty, staff and students. Their initiative, creativity, hard work and hospitali-
ty made a difference in persuading IOC members to vote for Atlanta.

Even those who only wore an Olympic T-shirt in support of the bid should share the pride of a job well done.

Now that Atlanta has been selected as the host city, more work awaits us. Georgia Tech will continue to play a role as the site of the Olympic Village, as host to the boxing and swimming events, and as a source of technical and human resources. Our goal is to build on the opportunities the Olympics provide for the good of the Institute, Atlanta, and the state.

But along with the Olympics comes responsibilities and challenges. For example, the Olympics will mean substantial changes, both permanent and temporary, to our campus. To plan for these changes, we will soon begin a broad-based planning process designed to anticipate the Olympics and maximize their potential for the Institute. This process will not function in a vacuum, but will be closely linked with both our campus master-planning functions and our academic strategic planning endeavors, as well as the Atlanta Organizing Committee's preparations.

During this process, we must remember that Georgia Tech is first and foremost an institution of higher learning. Thus, one of our first priorities is to minimize the disruption the Olympics will have on the educational, research and service activities of the Institute. I am confident that with six years to plan we can devise a solution that will accommodate both our regular missions and the Olympics. Indeed, I think the Games have the potential to enhance the way we perform our missions over the long run.

We are beginning one of the most exciting periods in Georgia Tech's history. I hope you share my enthusiasm.

Georgia Tech Charitable Campaign Begins This Week On Sept. 25

By Pam Rountree

You can make a difference! How? By supporting this year's campaign. You will have a chance to do just that as Georgia Tech launches its 1990 Charitable Campaign for United Way with a kickoff breakfast of Tech's vice presidents in the Gordy Room of the Wardlaw Center on Tuesday, September 25. The vice presidents meeting will be followed on Thursday, Sept. 27 with a kickoff breakfast for all the Charitable Campaign department coordinators. Last year, members of the Georgia Tech community gave a record-setting $180,051.09!!

Over 90 percent of United Way funds go toward helping people in need. In 1990, this will be done through 89 health and human care agencies with over 250 programs in United Way's 10-county service areas: Butts, Clayton, Cobb, DeKalb, Douglas, Fayette, Fulton, Gwinnett, Henry and Rockdale counties.

For this year's Charitable Campaign, Dr. Dick Fuller, vice president for Operations, will serve as Tech's campus chairman and again be assisted by Mr. Bill Lee, director of Planned Giving, John Grovenstein, of the Plant Operations Division, will serve as Tech's campus coordinator.

Campus Chairman Fuller says that the month of October will be 'Charitable Contributions Month' on the Georgia Tech campus.

"Again this year," Fuller adds, "our faculty and staff participate in the statewide Charitable Contributions Program, which is integrated into our annual United Way Campaign. This allows each of us the flexibility to designate a specific charity(ies) to receive our gifts, one or several agencies.

"This one-time annual campaign solicitation, focused primarily to support the Metro-Atlanta community's needs, is extremely important. It affords those of us at Tech an opportunity to show Metro Atlanta that we are, indeed, a caring and sharing part of the community," Fuller notes.

"The health and human services
Atlanta And Georgia Tech In 1996: Yes!!!

Innovative Multi-Media System Promotes Atlanta's Bid For Summer Olympics

By John Toon
Research Communications Office

Backers of the United States' bid to host the 1996 Summer Olympics used a high-tech, multi-media program to make their final proposal to members of the International Olympic Committee (IOC) in Tokyo on Sept. 18.

The show presents a wide-screen view of what the Olympic Village would be like for athletes. The system uses three videodisc players, three computers, computer-composed music, digitized narration and a unique interaction system which includes a computer-animated touch-sensitive three-dimensional model of the proposed Olympic Village. A Commodore Amiga computer controls the presentation, which also uses an Apple Macintosh Flex and a smaller computer interface device.

The presentation was developed by researchers at Tech with the assistance of Georgia State University and several private companies. Tech researchers saw the project as a way to boost Atlanta's Olympic aspirations—and as a testbed for developing innovative presentation techniques for a new Multi-Media Technology Laboratory at Tech.

“We were going to catch the weary IOC in the last week of the competition, so we wanted to make this more entertaining than the other bid presentations they would see,” explained Michael J. Sinclair, leader of the technical team which developed the system. “But we wanted to tell the audience about transportation, medical facilities, entertainment, training facilities housing and dining. And we wanted to show with graphics the one-million square foot dormitory that would house the athletes.”

As they did with an earlier interactive presentation for the Olympic bid, the Georgia Tech team relied heavily on computer-generated renderings of the proposed buildings. An architectural firm provided a database of information about the dormitory, and the team used that to create a rendering which allows viewers to fly around the building, then enter a remarkably realistic interior space.

“We took a lot of time to computer decorate the inside of the bridge between the two buildings,” Sinclair explained. “We put in country flags, large easels with portraits of Olympic Committee presidents, marble columns, a checkerboard tile floor and the Atlanta Organizing Committee (AOC) logo.”

Software from Thompson Digital Imagery allowed the researchers to produce realistic textures of brick, concrete, grass and other materials. The graphics were merged with real images shown on film by Academy Award-nominated cinematographers at Georgia State University. To produce a three-screen 120-degree “wrap-around” view, the researchers worked with Atlanta-based Crawford Post Productions.

Merging film with video tape also offered other challenges. The video images sliced from the film had to be “edge-mapped” to make sure they fit properly onto the three screens used in the presentations. And special efforts compensated for “gate wobble” generated by the film camera and projector.

Project To Start New Research Center

“Tech researchers hope to continue the work begun by the Olympics project, which was the first phase of one component of a new research center for multi-media technology. One industrial sponsor has already contributed a seed grant to continue the center’s development.

“The components necessary to build outstanding programs in multi-media technology and telecommunications exist at Tech,” said President John F. Crecine. “We want to mobilize resources from the State of Georgia and a selected group of external sponsors to develop programs of education, research and development which will benefit students, faculty and industrial partners.”

Nippon Columbia of Japan and its U.S. subsidiary, Denon Digital Industries, have pledged support for the new center. Other support will come from the State of Georgia and other corporations, Crecine said.

“Atlanta and the Olympics: Partners With The World,” the theme of Atlanta’s 1996 Summer Olympics campaign, has now become a reality and how sweet it is to the thousands of metro area volunteers who have worked to bring the Olympic Games to Atlanta!

The Georgia Tech Olympic Coalition (GTOC) celebrated with masses of people at Underground Atlanta on the morning of Sept. 18 as International Olympic Committee (IOC) President Juan Antonio Samaranch announced to the world that Atlanta is the host city for the 1996 Summer Olympics. Over its year and a half existence, several hundred GTOC members—who have worked to bring the Olympic Games to Atlanta!

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Georgia Tech Olympic Coalition Shows Pride, Support At Underground Atlanta

By Jackie Nemeth

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Middle East Update
From The Chancellor

The following is information from the Chancellor of the University System of Georgia. Questions concerning specific issues may be addressed to John Gibson, director of Personnel, at 4-2499.

The purpose of this memorandum is to remind everyone of federal statutory reemployment and other benefit rights that must be afforded all SYSTEM Reserve and Guard personnel who either volunteer or are ordered to extended national active service during the Middle East crisis.

Simply put, upon their release from extended federal military service, our employees are entitled to resume their positions, and to receive all benefits they would have received had they not been mobilized, including but not limited to salary and all annual salary increases, pension benefits, promotions, vacation and sick leave entitlements, employment status, seniority, insurance benefits: "and they shall not be discharged from such position without cause within one year after such restoration of employment."

These persons must be restored to their positions upon making application within 90 days of their release from active duty. The law considers such persons to have been on furlough or leave of absence during the time of their service. No such employee shall be denied "retention in employment or any promotion or other incident or advantage of employment because of any obligation as a member of a Reserve component of the Armed Forces."

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

GTOC... continued from page 2

Child Care Fair
Taking Place Today
At Weber Building

The President's Child Care Development Center committee is sponsoring another Child Care Fair on Monday, Sept. 24. The fair will be held from 12:30-3 p.m. in the West Tower (SSST) Bldg., Rm. 5.

Over 100 nearby day care centers and child development centers have been invited to exhibit, along with organizations sponsoring family day care providers. All members of the Tech community are welcome to come and gather information about child care options.

For further information, call Margaret Horsles (GTRI) at 4-3678 or Phyllis Ray (Office of Graduate Studies) at 4-3909.

Botanical Garden
Director To Speak
At Women's Forum

Ann Crammond, the executive director of the Atlanta Botanical Garden, will address the members of the Tech Women's Forum at their first meeting of the school year on September 27 at noon in the Student Center Ballroom.

Crammond, who has directed the garden for over a decade, has lectured extensively across the country on gardening and has made several appearances on television. She does a weekly gardening spot on WXIA-Channel 11 and has published articles in several magazines and newspapers.

Crammond is a member of the Ridgefield Connecticut Horticultural Society and serves on the Board of Directors of the Midtown Business Association, the Cherokee Garden Library, the National Arborist Advisory Council in Washington D.C., and the American Horticultural Society. For luncheon information, call Diane Stuart at 4-2204. Lunch is $6.50, brown baggers $1.

EDUCOM Volunteer Meeting Today!

Volunteers are still needed for the EDUCOM '90 conference to be held at Inforcon Oct. 14-17. A meeting for those people who are interested in volunteer work for the conference will be held on Sept. 24 at 4 p.m. in the Rich Bldg., Rm. 220.

The meeting agenda includes: discussing various tasks to be done, scheduling work hours/places, and signing insurance waiver forms.

Georgia Tech is the host institution for this conference focusing on tactical issues of policy, instruction and research, and technical development.

The conference theme is "Preparing for the Renaissance: Computing and Communications for Technology, Science and the Arts."

For more information about the meeting or the EDUCOM conference, call Linda Cabot at 4-6145 or contact her via PROFS LCABOT.

Campaign... continued from page 1

agencies funded by our annual gifts are extremely important organizations for the general well-being of our community; and their programs in some way no doubt touch each of our lives, personally, and make us the true recipients of our contributions.

"Please join in this year's campaign when your departmental representative meets with you, at which time this year's needs and your giving options will be explained in detail. Please help us make this year's contributions another record-setting year for Georgia Tech!"

People

Biology
Paul Edmonds, associate professor, recently served as moderator of a session on Campylobacter and Helicobacter species and presented a paper entitled "Differentiation of Helicobacter pylori from Helicobacter mustelae by Ribotyping" with his graduate student, Ogi Okwumabua at the recent annual meeting of the American Society for Microbiology.

This is where it all began for Tech on May 5, 1989! Buzz greeted Gunnar Ericsson (R), an International Olympic Committee (IOC) member from Sweden; Ericsson was in the first IOC delegation to visit Tech's campus.
Sangster Named New Director Of Tech's International Programs
By Vera L. Dudley

After 17 years of exemplary service, William M. Sangster, the driving force behind the expansion and success of Georgia Tech's intellectual core, is leaving the Deanship of the College of Engineering to coordinate the many international endeavors of the Institute.

Dean Sangster's outstanding leadership and commitment to the College will be sorely missed. During his lengthy tenure, Sangster has helped to place Tech amongst the top engineering schools across the nation. Georgia Tech's School of Industrial and Systems Engineering was recently ranked first in the U.S. by U.S. News and World Report.

As Director of International Programs, effective July 1, 1991, Sangster will coordinate Tech's international programs at schools including: Georgia Tech Lorraine in France, the Polytechnic Institute in Madrid, and the Cranfield Institute in England, as well as negotiate new programs currently evolving in Japan and in other nations. He will also oversee Tech's international cooperative education program. "Bill Sangster's efforts in this area compliment very nicely our existing initiatives," said Georgia Tech President John P. Crecine. "This is a position that takes Bill's expertise, initiative and energy while giving Georgia Tech the continued benefit of his services. We're glad he's staying around."

The creation of this new position is part of an effort to consolidate international programs which are handled by a number of Tech staff and faculty members.

"We want someone to make sure that what we're doing in other countries is in the best interest of Georgia Tech," said Dr. Michael E. Thomas, Acting Executive Vice President of Georgia Tech. "He is uniquely qualified because of the significant amount of international experience he has had."

Sangster will continue to serve as Dean of the College of Engineering until a suitable replacement has been found. A search committee has already been established to consider nominations for a new Dean.

The College of Engineering, encompassing eight separate schools, has grown tremendously during Sangster's tenure. The caliber of students has increased and their number has swollen to nearly 8,000, up from 4,500 in 1974 when Sangster was named Dean. In 1974, the number of faculty and staff at the college totaled 260. Today, Sangster oversees 500 faculty and staff members. A large number of new faculty members have been recruited recently despite a competitive external market. Georgia Tech has earned national recognition for research programs which have increased ten-fold in sponsored expenditures. Under his leadership, the quality of a broad range of interdisciplinary programs has been recognized through the granting of financial support from industry and government sources.

Sangster's determination, coupled with the vision of current and former Tech administrators, has resulted in outstanding records achieved in the recruitment, support, retention and graduation of minority and female students. The Fall 1989 report of the Engineering Manpower Commission ranked Tech second in both the production of minority engineers and in the number of African-Americans who received engineering degrees, and fourth in the production of women engineers.

Sangster is a founding and current member of the boards of GEM (National Consortium for Graduate Degrees for Minorities in Engineering Inc.) and SECOME (Southeastern Consortium for Minorities in Engineering—based on the Tech campus). He has served on the Engineering Manpower Commission since 1982 and is currently serving as vice chairman of the organization. He is also chief liaison of the Dual Degree Program between Georgia Tech and Morehouse College, Spelman College, Clark-Atlanta University and Morris Brown College.

In recognition of his efforts in minority education, the National Action Council for Minorities in Engineering Inc. (NACME) recently presented Sangster with the Reginald H. Jones Distinguished College Award. The Jones award is the highest honor conferred in minority engineering education. He is the 1990 recipient of the Gold Vector Award (the Panamerican award for engineering education) and will be the 1990 recipient of the Accreditation Board For Engineering and Technology, Linen T. Grinker Distinguished Service Award.

Sangster's international activities include visits to more than 142 countries around the world. He has done academic consulting for a number of foreign universities and has developed cooperative education and research programs with many other foreign institutions. He is also the author of numerous publications in the field of solid mechanics, hydraulics and engineering education.

In addition to his academic duties, Sangster has served as the school's faculty representative to the National College Athletic Association (NCAA) since 1973 and is a former president of both the Metropolitan Collegiate Athletic Conference and the Atlantic Coast Conference.

Sangster came to Tech in 1967 to serve as director and professor of Civil Engineering. Prior to that time, he had a distinguished career at the University of Missouri rising from Assistant Professor of Civil Engineering to Associate Dean, College of Engineering. Dean Sangster received his B.S. (1947), M.S. (1948) and Ph.D. (1964) degrees from the University of Iowa.

Mark Hildebrandt (L) and Robert Lemly (R), students in the George W. Woodruff School of Mechanical Engineering, prepare to race their dragster in a parking lot near the O'Keefe Building. The race was the final phase of a senior mechanical engineering design course taught by Dr. Steve Dickerson.
Tech Spreads Its Influence Through Europe With Exchange Programs

When Dean William M. Sangster steps into his new position next year as the Director of International Programs for Georgia Tech, he will have his hands full with the administrative and negotiating requirements necessary to organize more than 50 of Tech's educational programs conducted in nine countries—several of which are located in France. Below are brief descriptions of each French program and its purpose. Ongoing programs in other countries are similar to those listed below and will be showcased in later editions of the Whistle.

Ecole Superieure d'Electricite (SUPELEC): Tech has a new extension program, initiated this fall at the School of Electricity at Metz. The Georgia Tech-Lorraine (GTL) program will be primarily staffed by Georgia Tech professors and will grant M.S. and Ph.D. degrees in electrical engineering. This program is part of the framework agreement signed between the President of the Lorraine Council and the Governor of the State of Georgia in 1988.

Ecole d'Architecture de Paris-Tolbiac: Georgia Tech and the School of Architecture of Paris-Tolbiac have a faculty/student exchange program. Tech awards three to four scholarships to French students which allows them a one-year post-graduate study in the U.S. Upon completion of six years of study in France, approximately 24 French students return to France to practice as the Director of International Programs, the German exchange program. Tech awards three to four scholarships to French students which allows them a one-year post-graduate study in the U.S. Upon completion of six years of study in France, approximately 24 French students return to France to practice.

Ecole des Beaux Arts: This 15-year old program requires architecture students to spend their junior year in Paris. Approximately 25 French students spend a summer at Tech each year.

Ecole des Mines, Ecole Centrale de Paris, University of Paris, University of Technology in Compiègne: French undergraduate and graduate materials engineering students from these schools have been coming to Tech for several years. Tech undergraduate students in M.E. have gone to French laboratories. In addition, Tech Ph.D. graduates have done post-doctoral work at French universities and laboratories such as the Atomic Energy Commission at Grenoble.

Ecole Nationale de la Formation Agronomique (E.N.F.A.): The E.N.F.A., otherwise known as the Institute of Agronomy, offers summer internships to French students to conduct a summer research project at Tech. The internship is a requirement for completion of the course.

Ecole Nationale Superieure des Arts Decoratifs: Tech and the School of Decorative Arts have a student exchange program typically involving the exchange of at least three Tech students and four French students.

Ecole Superieure de Commerce de Clermont-Ferrand: This program allows three French students per year to study at Tech's School of Management at the Masters level.

Institut Libre des Hautes Etudes Economiques et Commerciales: INSEE sends 20 of its students to Tech's School of Management during the summer as part of the exchange program.

University of Nancy: Tech and the University of Nancy ICN (Institut Commercial National) agreed last year to share teaching and research materials through the exchange of scholars for advanced studies, faculty and students.

Institut National Polytechnique de Toulouse (INP): Tech and INP agreed ten years ago to exchange students and faculty in chemistry, electronics, electrical engineering, hydraulics and computer science. Usually an average of 2.5 students come to Tech and 2.5 go to INP.

Universite de Technologie de Compiègne (UTC): Georgia Tech and UTC exchange faculty, research staff and students. UTC students, in their final year, complete six-month project at Tech. Tech students attend UTC to perform research and arrange for industrial training.

Faculty Women's Club Names 1990-91 Executive Board

The Georgia Tech Women's Faculty Club is ready for a new academic year full of various activities, with a newly established Executive Board and Standing Committees leading the way.

This year's club events include a craft fair, and another group of volunteers will also work with the Festival of Trees. Several other committees within the club are looking forward to an active year.

Any faculty spouse is welcome to participate in the club activities. For more information about how to get involved, call Jan Gaylord, 4-7475.

Chinese Artists - The Youth Goodwill Mission from the Republic of China Taiwan will perform traditional Chinese dances, opera and acrobatics at the Atlanta Civic Center on Oct. 5 at 7:30 p.m. Tickets are available at the International Student Services and Programs Office in the Hinman Bldg., Rm. 326 and cost $5 for adults and $2.50 for children under 12. For more information, call 4-7475.

Optional Retirement Seminars - Representatives from the Teachers Retirement System, VALIC, and TIAA-CREF will present two sessions to faculty and principal administrators eligible for the Optional Retirement Plan. The sessions will be held at 11 a.m. and 3 p.m. on Sept. 26 in the Baker Bldg., Rm. 305.

AIDS Names Project - Emory University will host this year's regional display of the NAMES Project quilt from Oct. 6-8. The project, the theme of which is "Common Threads," is a remembrance of persons from the U.S. and dozens of foreign countries who have died from AIDS. Tech faculty and staff are invited to volunteer to assist with the display. Volunteers can work in various capacities during the display: quilt monitor, emotional support, volunteer registration, sales and donation, reader escorts, set-up, breakdown and cleanup. To volunteer, see the quilt and/or learn about AIDS, call NAMES PROJECT/ATLANTA at 442-3961.
Calvin Mackie happily displayed his bachelor's degree in mechanical engineering from Tech during summer commencement ceremonies on Sept. 7. Mackie entered Morehouse College as a dual degree (mathematics/mechanical engineering) major in 1986. He received his mathematics degree May 20, 1990 at Morehouse.

Morehouse College Graduate Completes Dual Degree Program At Tech
By Pam Rountree

One degree was just not enough for Calvin Mackie. Already a magna cum laude graduate from Morehouse College, he also graduated from Tech on Sept. 7 with a bachelor's degree in mechanical engineering.

Mackie, a native of New Orleans, La., is the son of Willie and Martha Mackie (who currently reside in the city). In New Orleans, he attended John McDonough #35 Senior High School, where he graduated sixth in his class and was voted Most Likely to Succeed.

And succeed he has. In September 1985, Mackie entered Morehouse College as a dual (mathematics/mechanical engineering) major, graduating with his first degree on May 20, 1990. He began the engineering component of his degree work at Tech in January 1989. Before entering college full time, he completed 16 credits at New Orleans' Dillard University while a senior in high school.

Throughout his first five years of college study, Mackie has received numerous honors. In 1990 alone, he received the Morehouse College Mathematics Achievement Award, the Georgia Tech Outstanding Achievement Award, the Dual Degree Outstanding Mechanical Engineering Student Award, and the Eastman Kodak Distinguished Engineering Student Award. In 1989, he received the Procter & Gamble Technical Excellence Award.

Mackie also was honored with several scholarship awards. These include: The Morehouse College Full Tuition Scholarship (1985-88), Eastman Kodak Dual Degree Scholarship (1986-88), Digital Corporation Dual Degree Scholarship (1986-88), and the AT&T Bell Laboratories Dual Degree Scholarship (1988-present). During the summers, Mackie has worked two internships with the Hoechst Celanese Corp in Charlotte, N.C., and one internship with AT&T Bell Laboratories in Naper ville, Ill.

Upon his graduation from Tech on Sept. 7, he plans to pursue an advanced degree in engineering and has been accepted into the M.S./Ph.D. program at Tech. His faculty adviser at Tech, Dr. Carolyn Meyers, an associate professor in the George W. Woodruff School of Mechanical Engineering, says Mackie is "a well-focused, energetic and enthusiastic student who knows what he has to do and does it."

"I'm really proud of his accomplishments, it speaks well of his preparation. Calvin has a lot of promise," Meyers says that Mackie plans to pursue a career in academia after he obtains his M.S./Ph.D. degrees.

Mackie is a member of a number of honor societies, including, Phi Beta Kappa National Honor Society, Pi Tau Sigma National Mechanical Engineering Society, Beta Kappa Phi National Scientific Honor Society and Pi Mu Epsilon National Mathematics Honor Fraternity, among others.

He has also been involved on campus as well as in the community. He has participated in the Executive Round Table at Tech, the National Society of Black Engineers, the High School Outreach Program, Big Brothers, the Ford Foundation Student/Faculty Scholars Research Program, the Atlanta University Center Industry Advisory Council and Academic Advisory Committee, and the NAACP.

Cook said the school now educates engineers, chemists and technical managers to serve two primary groups: the Southeast's important textile, apparel, carpet and nonwoven manufacturing industries, and the supplier companies which develop new processes and materials for these industries. Since 1987, the school has been expanding its enrollment, with 190 undergraduate and 40 graduate students projected to attend classes in the fall of 1990. Even so, the supply of graduates cannot keep up with the heavy industrial demand.

In addition to the school name change, degree names are also expected to change to reflect the expanding role of fiber engineering. The undergraduate degree formerly known as Textile Chemistry has already been changed to Polymer and Textile Chemistry to reflect the growing importance of polymers in the textile finishing industry.

Textile Engineering Program Continues To Change And Progress At Warp Speed
By John Toon
Research Communications Office

Tech's 91-year old School of Textile Engineering has changed its name to Textile and Fiber Engineering, reflecting a growing commitment to research and education in novel applications of fibers and engineered fibrous structures.

"During the 1970s and 1980s, we and the industry became heavily involved in engineered fibrous structures—wherever fibers are located in an engineered form," explained School Director Fred L. Cook. "The new name will better reflect our current mission and give our students more visibility with the wider range of companies now using fibers."

Begun in 1989 with a mission of boosting Georgia's emerging textile industry, the school got its original name when textiles only meant clothing, sheets and towels. The advent of synthetic fibers and their marriage with natural fibers over the past 40 years has dramatically broadened the textile field. Though the School of Textile and Fiber Engineering will keep its primary focus on serving the Southeast's largest manufacturing industry, it will continue to expand into areas which will provide new markets for textiles, Cook said.

Fiber-reinforced composites are widely used in the aerospace, automotive and sports industries, while plastic and concrete components reinforced with fibers may play an important role in rebuilding the existing U.S. infrastructure. Other applications include geotextiles used under paving to help highways last longer, fabric roofs and artificial turfs used in major stadium facilities, and medical textiles such as artificial blood vessels.
Student Recruitment, Funding Formula Discussed At Tech's Foundation Meeting

By Jackie Nemeth

The proposed funding formula, student recruitment issues, and renovation of the Knowles Building/West Stands area were major topics of discussion at the Georgia Tech Foundation Inc. meeting on Sept. 7.

Tech President John F. Carter said the University System has worked with the Board of Regents on developing a new funding formula which would determine how much money the University System would receive from the State Legislature. Carter said the proposed formula would be more helpful to four-year institutions and research universities.

"I am very pleased with the progress that has been made with the support we have received from the Board of Regents and from University level institutions," Carter said.

"There is widespread solidarity on this issue in the University System, especially from the University of Georgia, Georgia State University and the Medical College of Georgia." Carter said University System issues need to be addressed persistently to the Legislature, the next governor and the public.

"We need to keep stressing the importance of higher education and research to the public," Carter said. "I am optimistic that the next governor realizes the importance of economic growth and development and the contributions that higher education can make to that cause."

John Carter, executive director and vice president of Tech's Alumni Association, gave an update on student recruitment efforts. Carter is the chair of the Student Recruitment Program/Enrollment Task Force with Vice President for External Affairs James M. Langley, Special Assistant to the President Norman Johnson, and Registrar Frank E. Roper Jr.

Tech is at a crossroads in recruiting and retaining students and must face serious issues in attracting quality students, Carter said. According to Carter, the census reports that the number of 18-year-olds from 1987-1997 will decline by 30 percent and will not begin to rise again until 1994. In addition, college education costs will also continue to rise across the nation. All of these factors will increase competition among colleges and universities for the best students.

Currently, Carter said, Tech has a 60 percent graduation rate. To improve student retention, he said Tech needs to become more sensitive to students' needs by providing quality services and by actively recruiting high school students to increase the number of Tech applicants.

"We are committed to having quality customer service at Georgia Tech," Carter said. "Our customers are the students, and we need to be more sensitive to their needs in areas such as housing, parking and financial aid.

The Alumni Association has expanded its club staff in order to help with increased recruiting efforts, Carter said. Club members can stay in contact with prospective students through letters, visits, career fairs and employment opportunities. Other important connections to cultivate, he said, include middle school/high school teachers and counselors; professional societies; and Tech faculty, staff and students.

"We are involving as many alumni and friends as we can, and our Board of Trustees has set student recruitment as their number one priority for the next five years," Carter said.

The enrollment task force, Carter said, will also rely on input from an alumni recruiting committee; admissions, Recruiting and Financial Aid offices; the Office of Minority Educational Development; the President's Scholarship Program; Constituency Groups; Textile and Fiber Engineering's recruiting programs; and the College of Engineering's recruiting efforts; and from service groups such as the Housing Office, Health and Food services, and FASET.

In responding to student needs, Langley said Tech is broadening the academic curriculum and improving student services and facilities. The Knowles/West Stands project's purpose is to help current and potential students receive better service in a centralized location.

Prospective students would be taken to this building first, where all key student services, such as financial aid, corporate placement, and a welcome center would be housed. A corporation recruiting and interviewing schedule would be out in the lobby, in addition to pamphlets and other literature that would provide an introduction to Tech.

"We would like to get this beginning to end perspective across to potential students," Langley said. "We want them to get the sense of the "beginning to end perspective across to potential students," Langley said. "We want them to get the sense of the reward from getting a Georgia Tech degree."

The West Stands in Bobby Dodd Stadium/Grant Field would be connected to the Knowles Building, and would overlook the football field and provide an impressive view of the Atlanta skyline. Langley said the skyboxes built in the West Stands would serve as sites for the Institute to conduct individual admission interviews and for corporations to conduct job interviews when students are about to graduate, thus continuing the desired "beginning to end impression" on prospective students.

"We would like for this building to show how important students are to us at Georgia Tech," Langley said. "The Knowles Building/West Stands project melds athletic and academic space to work in conjunction for the benefit of our students."

Johnson Receives IBM Technical Honor

Ellis L. Johnson, Coca-Cola Professor in the School of Industrial and Systems Engineering and manager of mathematical programming at IBM's Thomas J. Watson Research Center, has received IBM's highest honor for distinguished, sustained technical achievements.

Johnson was one of five employees recently named an IBM fellow this year by IBM Chairman John F. Akers at the company's annual technical recognition event.

Only 116 employees have been designated IBM fellows since the inception of the program 27 years ago. Currently, 60 IBM fellows, from the fields of engineering, programming, science and systems, are active in the program.

Johnson, a world-renowned leader in the theory and practice of the mathematics of optimization, joined the corporation in 1966 as a research staff member in the Research Division and has held various positions in IBM's research and product divisions. He has made numerous contributions to the basic understanding of integer and mixed-integer optimization.

He was elected to the National Academy of Engineering in 1988 and is a member of the Mathematical Programming Society and the Institute of Management Sciences. He has published more than 40 papers and edited two books.

Johnson holds a doctorate in operations research and a master's in mathematics from the University of California, and a bachelor's in mathematics from Georgia Tech.

Mergan Barrett

Shirley Meaburn, the first woman president of the Georgia Tech Alumni Association, was on hand to welcome the summer quarter graduates to the Alumni Association. Meaburn, one of the first women to graduate from Tech, received her bachelor's degree in electrical engineering in 1946. She is currently vice president with Southern Engineering Co.
**For Sale**

- Washer & dryer, $300

- For both. Call Yomi at 936-9964.

- For Sale - 2 BR, 1 BA condo, freshly painted, in Buckhead, $69,000. Call Lee Evans at 350-9157.

- For Sale - Small 3 BR, 2 RA home in NW Cobb. Call Wooten at 422-9945.

- For Sale - 2 BR, 2 RA log-cabin home with lofts in Social Circle (1 bird Sport Coupe, black, 5.0, V8, 867-5131.

- For Sale - 3 BR, 2 BA ranch w/lofts in Atlanta, $300/mo. + utils. Call Garland at 4-6607 or 551-6352.

- For Rent - 1 BR furnished apt., prefer non-smoking bachelor. Lower level of ptv. home on 5th Street w/pvt. entrance, garden view, Walk through close to bath; small kitchenette, ample storage. Call Mrs. Hancock at 892-6515.

- For Rent - Charming 2 BR, 2 full RA condo in Creek Creek w/modern kitchen, solarium, central A/C, W/D, scenic view, pool, par-3 golf course, tennis, 8 min. from campus. Ideal for roommates. Lease/purchase option avail., $750/mo. Call 4-2607 or 872-3054.

- For Rent - 3 BR, 3 BA Townhouse w/pool, dbl. garage, am- ple storage. In Buckhead near Tuxedo Junction. Convenient to MARTA & Tech. Call evenings 303-5745.

- For Sale - 1 RM. duplex, quiet, clean, ceiling fans, CH/A, W/D conn., off street parking, 3/4 mi. from Tech, $400/mo. + utilities. Call Garland at 4-6607 or 551-6352.

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- For Sale - 2 BR, 2 RA home, 1 BR, 1 BA, AS NEW, 892-4639. Call Lee Evans at 892-4639.

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