Chameau shares vision for academic units

Defining a technological university in the 21st century

Dan Treadaway
Institute Communications and Public Affairs

How Georgia Tech’s academic units address their current challenges and opportunities will play a pivotal role in attaining the Institute’s goal of defining the technological university of the 21st century. In his presentation to a joint meeting of the Academic Senate and General Faculty on Feb. 4, Provost Jean-Lou Chameau outlined ideas for how the academic units can help make that goal a reality.

Chameau said that while the academic units are in excellent shape overall and continue making tremendous progress, each one has particular areas that can be strengthened further. Based on his extensive discussions last year with representatives of approximately 10 individual schools and departments, as well as attendance at faculty workshops, a school chairs retreat, and discussions with individual faculty members, staff and students, Chameau put forward the following suggestions for each of the six colleges and the Library.

College of Architecture: focus on key disciplinary areas, continue building senior intellectual leadership, improve the studio environment.

College of Computing: continue promoting a culture of collaboration, keep a strong focus on faculty and student quality, become a leader in undergraduate education.

College of Engineering: continue building momentum and offering leading-edge programs, build programmatic depth across the board, plan for a significant and recurring investment of resources in faculty and facilities to maintain momentum.

Ivan Allen College of Liberal Arts: nurture programs that are already strong, take advantage of opportunities in other areas, keep focus on high quality and critical mass development.

DuPree College of Management: maintain focus on the development and recruitment of excellent people in both the faculty and administration, differentiate the College from its competition, expand and continue improvement of master’s and Ph.D. programs.

College of Sciences: bring key programs that are fundamental to the future of Tech to critical mass, continue developing and hiring institutional leaders, plan for an intensive commitment of resources and investment in facilities to achieve these goals.

Library and Information Center: build strategic partnerships through information technology, build converged learning environments (such as the planned Undergraduate Learning Center), enter the peer group of technological universities in the Association of Research Libraries. Chameau also listed some “cutting themes” that he said apply Institute-wide, including:

• Georgia Tech is not an engineering school, but a leading technological university.
• Do not follow, lead (examples include Centers of Excellence, bioinformatics, nanoscience, and investing funds for emerging ideas).
• Maintain and enhance the entrepreneurial culture on campus.
• Multidisciplinary programs and laboratories are a key component to the Institute’s success.
• Tech is a major research university and therefore must continue to build the high-quality facilities, infrastructure and people that are integral to such a major research university.
• Continue expansion of opportunities for undergraduate research.
• Ensure that a Tech education has a “global flavor.”
• Continue the strong history of entrepreneurship and economic development activities.
• Marketing is not evil.
• Increase faculty depth (expand size of faculty in target areas, develop senior Institute leaders, improve faculty development and faculty life).
• Students (continue competing for the best, aggressively pursue

Vision continued, page 3

Professor Clough

At a time when Georgia residents receive the highest natural gas bills of the year, students are asking questions about the process of deregulation in Georgia. This semester President Wayne Clough and Professor Richard Barke (far right) are co-teaching a special seminar examining this issue to about 10 undergraduate and graduate students in the School of Public Policy in the Ivan Allen College.

Barke brings his knowledge of regulatory and policy issues, and Clough brings his experiences serving as chair of former Gov. Roy Barnes’ Blue Ribbon Natural Gas Task Force, charged with proposing long-term solutions for problems brought on by the 1997 deregulation law.

The first half of the semester focuses on the history of regulation, with Clough leading class discussion and lectures as the course shifts to Georgia. Though a frequent guest lecturer, this seminar is the first time that Clough has taught a course since returning to Tech as president.

Michael Hagearty
Institute Communications and Public Affairs

A s the applications for integrating computing power into everyday life expand, so too does the need for educational disciplines that examine how the two will influence each other in the future. Earlier this month, Rich DeMillo, dean of the College of Computing, announced the formation of a committee, co-chaired by Professors Jim Foley and Nancy Nersessian, to develop a new doctoral program focusing on “human-centric computing (HCC).”

To Nersessian, this kind of evolution has its roots in the decision to name the College as broadly as possible. “That’s why we can comfortably house people in cognitive science and learning science with those who do not have computer science degrees such as psychology or philosophy,” she said. “We see this as a step in fulfilling — and further articulating — our vision.”

She cited the Aware Home as an example of this vision. “As computers become ubiquitous, it means more and more impact on human life, and yet so much of computer science is carried out without considering the human dimension: cognitive, social or historical. Rather than the traditional way of starting to think about how humans use computers, we’re beginning to think about how computers affect humans and how humans experience computers.”

Foley said that since its inception, the College of Computing has sought to incorporate multidisciplinary programs, drawing upon expertise in public policy, multimedia or industrial design. “These were all steps toward broadening our intellectual base,” he said. “The Ph.D. in HCC is yet another step, but surely not the last step, either.”

Computing expands its vision

www.whistle.gatech.edu
Teaching conservation with interactive games

Jane Sanders
Research News

A
n interactive Web-based game designed for Zoo Atlanta by Georgia Tech computer scientists is teaching Zoo visitors and Web surfers about the conservation of gorillas.

“The Mating Game” teaches players how zoos use science to select which individual gorillas to breed for the captive management of these animals. The concept, created by zoo personnel, is based on 1970s game shows and is hosted by “Bob Zoobanks.”

Brian Jones and Tiffany O’Quinn in Tech’s Interactive Media Technology Center (IMTC) implemented the zoo’s idea with their computer programming and graphics expertise. “Educators agree that interactive learning like this is very valuable to students,” said Jones, the lead researcher.

Richard Hezel, the video production manager in Zoo Atlanta’s Department of Conservation Technology, said, “By approaching the subject in a light and fun way, the game is successful at reaching not only kids with its interactive animation, but also adults by means of the nostalgic game show theme.”

IMTC staff designed “The Mating Game” to run on a kiosk in the zoo. Then to give the game a wider audience, IMTC staff created a Web version.

In the game, Zoobanks explains to players that the methods for selecting individual gorillas to breed are sort of like computer dating for animals. The goal is to keep populations healthy by choosing the right individual gorillas for captive breeding. To do this, zoos need a good understanding of genetics, animal behavior and logistics.

The game can be played by one to three people at the same computer. With one player, the game offers a choice of three gorilla bachelors. The player answers for a selected bachelor, and the computer answers for the other two. The gorilla bachelorette asks the bachelors randomly selected questions — via signs, not voice — to determine the right mate.

Zoobanks asks the three bachelors to answer by choosing from the three possible answers provided. The host awards the bachelors points based on the explanation that he gives after the answers have been entered.

Beyond “The Mating Game,” Jones and his colleagues in IMTC have worked with Georgia Tech’s Center for Education Integrating Science, Mathematics and Computing (CISEMC) program on an educational virtual-reality-based project to teach American students about Japanese culture, called i-irasshai, which means “welcome” in Japanese, the project — funded by the National Endowment for the Humanities — will be nationally distributed soon on CD-ROM to schools via public broadcasters.

“We have observed middle school students using this program, and the student response has been positive,” Jones said of i-irasshai. “That’s very rewarding.”

Now, IMTC is proposing to the National Endowment for the Humanities the development of other interactive educational programs.

First on the list is a program to teach American students about Mexican culture with the underlying goal of promoting cultural sensitivity. IMTC would collaborate with CEISMC and the School of Modern Languages on the Web- and CD-ROM-based program.

“For people to understand another culture, you have to immerse them in that environment,” Jones said. “The activities and tasks in these interactive educational games do that.”

Former Tech basketball coach Whack Hyder dies

Led Jackets to first NCAA appearance

Georgia Tech Athletic Association

Long-time Georgia Tech basketball coach John “Whack” Hyder, who won 292 games in 22 seasons at the helm of the Tech program, died Feb. 9 at the age of 90.

Tech’s winningest basketball coach until surpassed in 1996 by Bobby Cremins, Hyder coached the Yellow Jackets from 1951-1973, compiling an overall record of 292-271 (.519). His tenure was highlighted by Georgia Tech’s first NCAA Tournament appearance in 1960 as well as two trips to the National Invitation Tournament.

Hyder’s most famous victory was on Jan. 8, 1955, when his Yellow Jackets defeated Adolph Rupp’s Kentucky powerhouse, 59-58, to end the Wildcats’ 129-game home winning streak. That was the first of Hyder’s three victories over top-ranked Kentucky squads.

Hyder coached Tech’s first two all-America players in Roger Kaiser and Rich Yunkus and was twice named Southeastern Conference Coach of the Year. He is a member of both the Georgia Tech Hall of Fame and the State of Georgia Sports Hall of Fame.

“He was the best thing in the world for me,” said Kaiser, who went on to a coaching career of his own, winning four NCAA national titles at West Georgia and Life University.

“He had so much patience in dealing with his players, and you could tell how much he cared for each of us as individuals. Because of that, we respected him so much and wanted to play that much harder for him.”

Born July 10, 1912 in Lula, Ga., Hyder was one of the best all-around athletes in Georgia Tech history, let- tering in basketball, baseball, cross country and track. He also earned a freshman letter in football, the sport in which he received his scholarship to Georgia Tech, because there were no basketball scholarships in those days.

Upon graduating in 1937, he signed a professional baseball contract and played three years in the New York Yankees minor league system.

Following a stint in the U.S. Navy in World War II, Hyder returned to Tech in 1946. He was named as an assistant basketball coach by Director of Athletics William Alexander, the same man who had first offered him a scholarship. He was elevated to head coach prior to the 1951-52 season.
Saying it with glitter

Kristen Schieltz, a second-year management student, makes a valentine for her boyfriend in the Craft Center in the Student Center.

Out with the old: campus gets new recycling containers

Michael Hagerty
Institute Communications and Public Affairs

After six years, it's time to say goodbye to the campus igloos.

The enormous white fiberglass containers that have been around since the start of Georgia Tech's recycling program are being retired in favor of smaller, more discreet bins.

"They have been put through the test of time," said Cindy Jackson, who directs the Office of Solid Waste Management and Recycling. She has seen firsthand the type of mistreatment the igloos have endured, up to and including being set on fire. Still, she said, despite six years of mischief they've held up remarkably well.

By the end of the month, the containers for the 10 so-called "satellite" sites will be replaced with four separate receptacles. Two primary factors led to the change. Led by President Wayne Clough, the Planning Design Commission evaluated the campus hortscapes, such as lighting and signage, in an effort to move toward a single campus standard as dictated by the master plan.

Then it was just a question of aesthetics. The commission wanted something that was not only durable but also would blend in with campus life. On that count, the igloos didn't pass muster.

So Jackson proposed a new set of cans for each satellite: one for aluminum; one for plastic; one for newspapers; and one for trash.

While the satellites will need to be emptied more often, Jackson said she's already seeing benefits. It seems including a receptacle for general trash has helped to reduce one of the major obstacles to recycling: contamination, which occurs when different types of recyclables get mixed together or when refuse is thrown in with recyclables.

"We've already seen our waste streams cleaned up," she said, which is good news for an office that collected more than 993 tons of materials away from area landfills in 2001.

What we use

In 2001, the Office of Solid Waste Management and Recycling diverted more than 937 tons of materials away from area landfills, a recovery rate of 16 percent.

- Mixed paper: 308 tons
- Composting: 264 tons
- Cardboard: 112 tons
- Newspapers: 52.6 tons
- Glass: 10.8 tons
- Phone books: 6 tons
- Aluminum: 2.9 tons

Jackson said that with the "back-up" child-care facility since 1999, ended this month.

Should employees need a temporary facility, they should contact the childcare center.

In addition, Chameau further stressed that Georgia Tech faculty, researchers, staff and students are very entrepreneurial and the Institute should nurture that spirit. "Georgia Tech should provide a general organizational framework by which we operate," he said, "but within that framework, we need to allow for the organized chaos that is the root of so much incredible creativity."

In Brief:

Daycare center update

At a recent meeting of representatives for the Office of Human Resources, Garey McAnally, director of the R. Kirt Landon Learning Center, spoke briefly to the group about the Center, which officially opened for business in late January. Currently, there are 46 children in the facility, which is about 1/3 of total capacity. Children of all staff types are represented; the facility cares for children 6 weeks to 4 years old.

McAnally reminded everyone that Tech's association with City Link, the "back-up" child-care facility since 1999, ended this month.

For more information, call 404-249-1500 or refer to http://centers.brighthorizons.com/tech homestack.

IMPACT scholarships

For the second year, Auxiliary Services will offer 10 students of distinction a $3,000 IMPACT scholarship to those men and women who are passionate about their causes, relentless in their pursuit of success and indissociable in their methods.

The IMPACT program encourages students who have distinguished themselves within the Tech community, either as leaders or in support of issues, departments or causes.

Geared to a wide range of students, the application requires an essay and faculty/staff recommendations. A screening committee makes initial cuts based on a weighted average of academic achievement, financial need and recommendations. Interview committees judge finalists and select recipients.

Due Feb. 23, the application is available online at www.studentcenter.gatech.edu/auxschol.

BuzzCard deposits via payroll deduction

It is no longer necessary to carry cash on campus, thanks to the new BuzzCard payroll deduction program.

According to James Pete, director of the BuzzCard Center, "All benefit-eligible employees are qualified to participate in the payroll deduction program.*

Students, faculty and staff already take advantage of the on-line, credit card deposit program for their BuzzCards. To sign up for the payroll deduction program, monthly and bimonthly payroll recipients should visit the BuzzCard Center in the Houston Building.

Two engineering professors honored

Two professors in the School of Mechanical Engineering were recently acknowledged for their work. Assistant Professor William Singhose received the 2003 Jiri Tlusty Outstanding Young Manufacturing Engineer Award from the Society of Manufacturing Engineers, while Professor Robert Fulton was selected as the Engineer of the Year in Education by the Georgia Engineering Alliance and the Georgia Engineers Week Committee.
**C A M P U S  E V E N T S**

**Arts & Culture**

**Feb. 21**
The Fertl Center for the Arts welcomes Déla Fleck and the Flecktones for an 8 p.m. performance. For tickets, call 894-9600.

**Feb. 26**
Teatro Lirico d’Europa performs Puccini’s “Madama Butterfly” at 8 p.m. in the Fertl Center for the Arts. For tickets, call 894-9600.

**Brown Bags/Conferences/Lectures**

**Feb. 19**
The School of Chemical Engineering’s annual Ashton Cary Lecture features Richard Gross, corporate vice president of research and development at the Dow Chemical Company, on “Research and Development: New Business Growth” at 4 p.m. in L125S, ESEKT Building. For more information, call 894-2848.

**Feb. 21**
The Cognitive Science Colloquium Series continues with Daniel Jurafsky, associate professor at the University of Colorado at Boulder, on “Probabilistic Language Processing by Humans” at noon in the MARC Auditorium. For more information, call 894-7805 or e-mail charmis@icpa.gatech.edu.

**Feb. 25**
The School of Materials Science and Engineering welcomes Seunghun Hong, assistant professor of physics at Florida State University, speaking on “Hybrid Nanostructures and Devices,” at 3 p.m. in room 185, Love Building. For more information, e-mail zhong.wang@msme.gatech.edu.

**Feb. 27**
The Harvard Club of Georgia sponsors a visit from Owen Gingerich, research professor of astronomy and history of science, speaking on “The Book Nobody Read,” exploring Gingerich’s research into the work and life of Copernicus, at 8 p.m. in the Clary Theater. A reception precedes the discussion. For more information, call 894-1962.

**Faculty/Staff Development**

**Feb. 20**
The Office of Sponsored Programs hosts a brown bag workshop on “Intellectual Property” from noon - 1:30 p.m. in room 119, Centennial Research Building. To register, call 894-6944 or e-mail nadia.zitman@osp.gatech.edu.

**Miscellaneous**

**Feb. 19-20**
A TIAA-CREF individual consultant will be on campus to conduct individual counseling sessions. To sign up for a counseling session, visit www.tiaa-cref.org/moc or call 800-842-2003.

**Feb. 21**
The DuPree College of Management and the Entrepreneur Club present the 2003 Business Plan Competition Finals, with keynote speaker Chris Klaus, chief technical officer at Internet Security Systems, on “Building a Business from Start-Up to Future,” at 4 p.m. in the Smithgall Auditorium.

**Feb. 25**
Thomas Meredith, chancellor of the University System of Georgia, will make a presentation at the spring meeting of the General Faculty and General Faculty Assembly, from 3-5 p.m. in the Student Center Theater. A full agenda is posted at www.faculty senate.gatech.edu. For more information, e-mail said@inkelhakil@msme.gatech.edu.

**Editor’s Note:** Faculty and staff should submit calendar events via e-mail to michael.hagearty@icpa.gatech.edu.

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**C L A S S I F I E D S**

**Appliances**

Sears refrigerator in working condition for free if you pick up. Call 385-0271 or e-mail benny@ece.gatech.edu.

**Automobiles**

1989 Cadillac Sedan DeVille 4.5L V8, Champagne, tan interior, auto, 140K mi. Good condition & runs well. Per everything, climate control, cruise, $1,200 OBO. Call 894-5243 or e-mail scott.slaede@business.gatech.edu.

1992 Honda Accord EX, Sunroof, ATS, CD, power windows/locks. New a/c and tires. White, 5spd, 198K miles. Original owner. Never wrecked, excellent condition, $4,500 OBO. E-mail gormanb@hotmail.com or call 404-685-3689.

1992 Toyota Previa LE family van. Good condition, gray tweed. Off-white slipcover included. Can send photo via e-mail, $350. Call 894-4515 or e-mail kathy.blevins@cos.gatech.edu.

2000 Chevrolet Cavalier. Red, 65K automatic, 2-door, CD, cruise control, new tires. extra clean, perfect condition, $6,000 OBO. Call 770-622-9850 or e-mail maristefi@yahoo.com.

2000 Honda Accord SE 70K miles, excellent condition with maintenance records, good tires, loaded, $15,000. Call 894-7037.

2002 GMC Envoy, Pewter/crancher, 215 miles, excellent condition. Power seats and windows. AM/FM, CD, OnStar system. Still under factory warranties. $22,000. E-mail gelen.moscoso@arch.gatech.edu or call 894-4283.

**Furniture**

Moving sale. Furniture, TV/video, household goods and more. All in excellent condition, many nearly new. Call 770-394-2036, e-mail celine.m@att.net.

1993 Cadillac Sedan de Ville. White, new Michelin tires. 180K hvy. miles, perfect condition, runs/rides like a dream. $5,000. E-mail rcmunt537@bellsouth.net or call 894-6701.

1994 Mazda MPV V6, auto, power windows, a/c, cruise, cassette, 2 new tires, 7 passengers, 157K miles, $2,500. E-mail wh127@icpa.gatech.edu.

1996 Infinity J30. Spotless and extremely reliable. Black, tan leather interior, auto, CD/cassette, power everything, heated seats, cruise, sunroof. New Michelin tires. All records available. 95K miles, $7,900. E-mail robsona@atlbit.com.

2000 Chevrolet Cavalier. Red, 65K, automatic, 2-door, CD, cruise control, new tires, extra clean, perfect condition, $6,000 OBO. Call 770-622-9850 or e-mail maristefi@yahoo.com.

1BR/1BA Midtown condo, nice view of the city. 0.8 miles from campus, assigned covered parking, cable, high-speed internet included. Indoor pool, sauna, exercise room. 24-hour concierge. $1,100/mt. Call 404-566-0848.

3BR/2BA brick ranch near Emory/CDC. 194 sqft. floors. LR/DR, remodeled kitchen, great room w/fireplace. Fenced yard, cul-de-sac. Low $200K. By owner. Call 404-934-8395 and leave msg.

3BR/2BA home in Newnan for sale. Ranch on a cul-de-sac in a lake community, finished bonus room, two-car garage, wooded lot w/fenced yard. Asking $174,900. Call Dawn at 894-4640.

1BR/1BA condo for rent. Midtown, 10th floor with good view. 24-hr. concierge and covered parking. $1,200/month with 1 yr. lease. Available February. Call 770-707-7200.

3BR-3BA townhouse in Buckhead. Breakfast bar, open kitchen, large mahogany fireplace, W/D, storage in lower level. Extensive attic storage. Rent: $1,500 mo. or buy for $229,900. Call 404-216-7974.

**Miscellaneous**

Free to good home: spayed female pit bull, 1-1.5 years old, very affectionate & intelligent. Great with other dogs. $229,900. Call 404-316-7974.

1999 Eyrayt 214, 22 feet, 305 VB engine, 70 hours on boat, Tandum Trailer life jackets, wake board included. Everything you need to hit the water. Call Steve at 770-579-5565.

Coin collection for sale. Make an offer. Call 894-5834 or e-mail janice.rogers@gti.gatech.edu for inventory.

Amigo RT Express power scooter. Blue, comes with 2 chargers, 2 new factory-sealed batteries, backpack and tiller bag. $1,000. E-mail gelen.moscoso@arch.gatech.edu or call 894-4283.

Ivory size 14 wedding dress and veil. New shoes, size 8M, never worn. Paid $340, asking $175 for all. E-mail ms287@prism.gatech.edu.

Young Chang piano, model U5, tuned, upright, black gloss, concert instrument with bench, $2,300. Call 770-434-0494.

4 Lion Ning tickets for 1 p.m. showing on March 9 at Atlanta Civic Center. $240 (face value). Located LG2, row G, seats 8-11. Call 770-945-1280 or e-mail pam.smith@business.gatech.edu.

Wanted: used tennis balls. My great danes will thank you! E-mail connie.adams@isp.net.

**Editor’s Note:** Only faculty and staff may submit classified ads via e-mail to michael.hagearty@icpa.gatech.edu. Ads will run for a maximum of three weeks in the order in which they are received. The Whistle reserves the right to edit ads longer than 30 words.