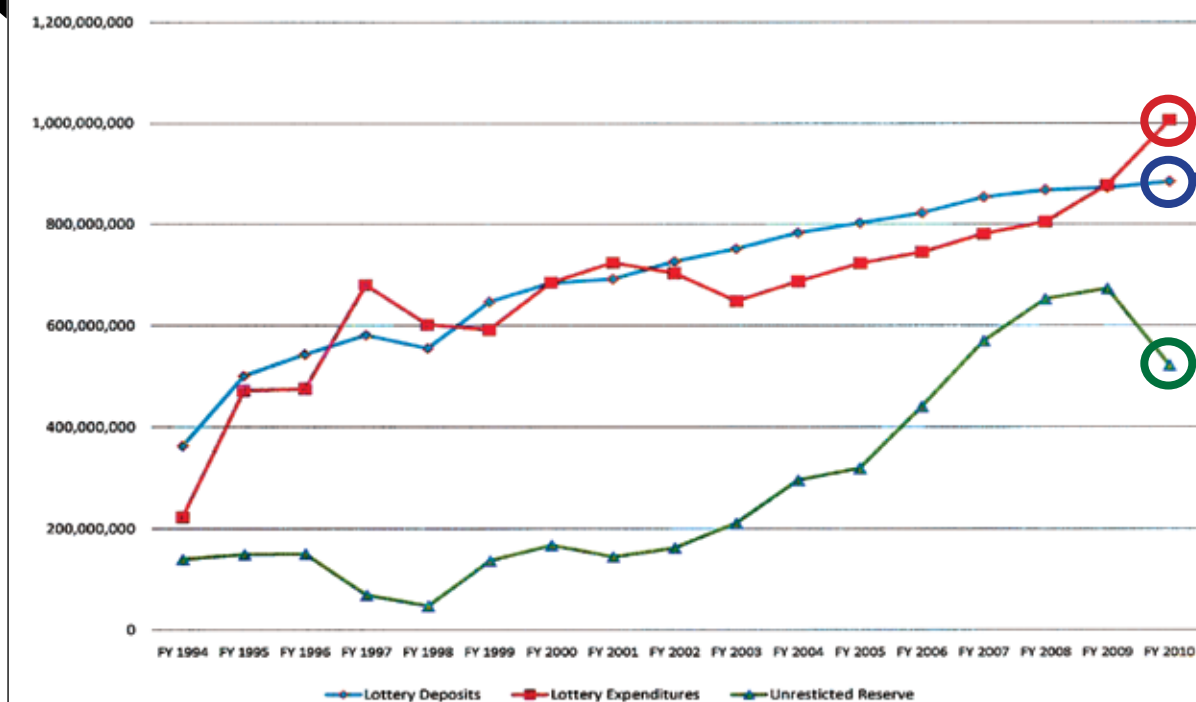




Legislators begin discussion of HOPE reforms

LOTTERY DEPOSITS AND EXPENDITURES: FY 1994-FY 2010



Information graphic courtesy of Georgia Student Finance Commission

DEPOSITS: LOTTERY TICKET SALES



Photo by Jarrett Skov/ Student Publications

The amount of money collected through lottery sales has increased steadily over the years, totaling \$883 million in FY 2010.

EXPENDITURES: HOPE SCHOLARSHIP



Photo by Wei Liao/ Student Publications

The HOPE scholarship expenditures exceeded the amount of revenue collected for the first time in FY 2009.

RESERVE: THE IN-BETWEEN



Photo by Ben Keyserling/ Student Publications

Over the years, surplus revenue has been set aside for a reserve fund, which was used to cover the shortfall last fiscal year.

By Vijai Narayanan
News Editor

Over the coming months, legislators and stakeholders will meet at the Georgia State Capitol in Atlanta to discuss the future of the HOPE Scholarship, which has become uncertain in recent years. Program expenditures for HOPE exceeded collected revenue for the first time in over 10 years in FY 2009.

The HOPE Scholarship covers the cost of tuition for in-state students attending public institu-

tions in Georgia in addition to providing stipends for books and fees.

The program was started in 1993 with the goal of increasing student achievement in high school and incentivizing more students to attend college. Since its inception, the idea behind the HOPE Scholarship has been adapted and used in several other states, serving as a model for higher education across the country.

During his State of the State address earlier this month, Governor Nathan Deal said that the

state would have to make tough choices in order to make HOPE sustainable. On Tuesday, Jan. 25, the Georgia Senate Higher Education committee met for the first time this session to discuss the future of the HOPE Scholarship and how the program should be reformed.

"It's not that the lottery proceeds have declined to the extent that it can't fund the program. If you look at it the lottery, it has continued to perform very well. It's just that the demand in terms of the number of students apply-

ing for HOPE has grown so dramatically over the past few years," said Dene Sheheane, the executive director of Government and Community Relations for Tech.

Lottery deposits have increased annually by 2.75 percent since FY 2000, amounting to approximately \$883 million in FY 2010. In contrast, the amount of lottery expenditures totaled approximately \$1 billion that year, forcing the state to tap into its lottery reserves to fund the program.

If the state were to continue this rate of expenditure, reserves

will be depleted by FY 2013. The Governor's budget report does not authorize HOPE expenditures beyond what is collected through lottery sales for FY 2012, meaning that legislators must consider HOPE reform this legislative session.

A report issued by the Georgia Student Finance Commission in Aug. recommended that the state legislature eliminate the book stipend along with fee payments. This alone would cut approxi-

See HOPE, page 5

X-College task force created

By TJ Kaplan
Staff Writer

During the past year, Tech has worked to develop and initiate plans that follow in the path laid out by the five goals that were outlined in Tech's Strategic Plan. The Institute's academic leadership has begun the exploratory process towards the initiatives that came with the plan.

One of the initiatives that resulted from the yearlong strategic planning process was the idea to create a "design your own major" program on Tech's campus. Earlier this month, Provost Rafael Bras announced the creation of a committee to review the procedures, options and the formulations of strategies to create the X-College.

"For some time, our students have asked the administration to offer some kind of self-directed learning options," Bras said.

"The X-College initiative grew from the very strong recommendations from students and faculty in the strategic planning process that Georgia Tech needs to increase student-faculty interaction and

See X-College, page 4

Tech, GE partner for Smart Grid Center

By Emily Cardin
Assistant News Editor

Last week, Governor Nathan Deal announced the creation of The Smart Grid Technology Center of Excellence, a project by GE Energy, a worldwide supplier of power generation and energy delivery technologies. The center represents an important collaboration with the Institute and will open near GE Energy's existing Marietta headquarters in Cobb County.

Through this project, GE Energy has formed a joint venture with Tech to conduct research and development related to smart grid technology, as well as to develop its workforce. Smart grid technology is gaining popularity and support quickly. The U.S. Department of Energy recently awarded \$100 million in grants to companies and colleges to train people in the technology, and President Barack Obama has spoken in support of smart grid development.

GE Energy has pledged \$1.5 million to Tech in support of this new partnership, which



Photo courtesy of GE Energy

The facility is located at GE Energy's headquarters in Marietta and open to educational and professional groups.

represents the single largest educational undertaking the company has made to date.

"Research on smart grid technologies and their related systems is important at Tech, so there are limitless opportunities to collaborate with GE Energy," said Greg King, Strategic Partners officer at Tech. "We look forward to working with GE Energy in this latest area of technology and innovation."

Tech has identified research, laboratory, infrastructure and test opportunities that GE

Energy will leverage for its smart grid technologies. In accordance with this, GE Energy will partner with Tech's Distance Learning and Professional Education program, as well as the University System of Georgia's Intellectual Capital Partnership Program (ICAPP), to develop customized smart grid technology content. The solutions generated through the Center are intended to lower electricity rates, continually improve efficiency and reduce use of natural resources.

There are plans to implement this content within an existing degree program at Tech. The company will work with ICAPP and Tech to develop coursework and electives for a Professional Masters in Systems Engineering degree in smart grid systems and technologies. The company also received a research grant from the Georgia Research Alliance to fund the infrastructure and equipment for GE Energy's collaboration with Tech.

This project represents a \$15 million investment and is estimated to create around 400 jobs for Georgians throughout the next three years. The GE Energy Smart Grid Technology Center of Excellence will be responsible for developing smart grid technology to send to markets around the world. The Center will also manage the research and development of new technology for power plant automation and monitoring electrical grids, again in order to improve efficiency.

Bob Gilligan, Vice President of GE's Digital Energy busi-

See Grid, page 3

TECHNIQUE

The South's Liveliest College Newspaper

Founded in 1911, the *Technique* is the student newspaper of the Georgia Institute of Technology, and is an official publication of the Georgia Tech Board of Student Publications. The *Technique* publishes on Fridays weekly during the fall and spring and biweekly during the summer.

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From the files of the GTPD...

Campus Crime

By Matt Schrichte
Contributing Writer

Shattered glass

An officer was dispatched to the Tau Kappa Epsilon fraternity house the morning of Jan. 20 in response to a property damage report. Sometime between the hours of 11 p.m. the night before the incident and 9 a.m. the morning of the incident, someone fired pellets through two front windows of the fraternity house.

A single entranceway window and two bathroom windowpanes were shattered. Fraternity members were able to produce pellets found on the floor near the broken windows. The pellets were reported to be standard-sized .177

caliber pellets.

Bathroom pass

An intoxicated 19-year-old male, who is not a student of the Institute, was found passed out in a bathroom of the Delta Upsilon fraternity house at approximately 2 a.m. in the morning of Jan. 23.

After being discovered unconscious, the person was moved from the bathroom to a couch on the front porch. An ambulance from Grady was dispatched to the scene and found the person breathing but unresponsive.

The person was transported to Emory Crawford Long Hospital.



DUI

A person, who is not a Tech student, was arrested in the early morning of Jan. 23 for driving under the influence.

A patrolling officer noticed an overcrowded sedan seating four people in the three-person backseat. While expressing his concerns to the driver over the additional passenger, the officer noticed an alcoholic odor emanating from the vehicle.

The driver, who was not of legal drinking age and had slurred speech, admitted to the officer that he had imbibed one to two beers that night.

A portable breath test indicated that the driver had a BAC level of .171.

He was arrested and charged with D.U.I. Refusal after declining to provide a sample for a State administered chemical test.

Events and happenings across campus next week

..... Campus Calendar

By Vijai Narayanan
News Editor

Tuesday, Feb. 1

OPEN FORUM ON HOPE

WHAT: SGA's Undergraduate House of Representatives will be hosting an open forum discussion about the HOPE scholarship, possible solutions to its shortfalls and its future.

WHEN: Begins at 7 p.m. in the Flag building in main auditorium.

Wednesday, Feb. 2

JAMES O. ELLIS, JR. TALK

WHAT: The IMPACT Speaker Series will host Admiral James O. Ellis, Jr., the President and CEO of the Institute of Nuclear Power Operations (INPO). Ellis will give a talk on 'Energy, Prosperity, and Leadership.'

WHEN: Begins at 4:30 p.m. at LeCraw Auditorium.

JULIA CHRISTENSEN LECTURE

Thursday, Feb. 3

LAURIE ANDERSON PERFORMANCE

WHAT: Experimental performance artist Laurie Anderson will discuss her recent projects and experiments, followed by a public workshop detailing her work.

WHEN: Begins at 1 p.m. at the Hinman Research Building.

Open Forum

A Topical Intellectual Discussion

This I Believe: with Matt Lebrun, MGT

February 1

Tuesday | 11am | Neely Room | Library

All are welcome!

gtopenforum.gatech.edu



Grid

from page 1

ness, believes that the relationship between GE Energy and Atlanta will be mutually beneficial.

GE's Smart Grid Center is located in Marietta, near GE's headquarters. The interactive "Experience Center" is compatible with users of any age, and can coordinate with smart phones, iPads and other new technologies to enrich the experience. This customer experience exhibit, housed on the groundfloor of the center, will have video demonstrations and interactive displays to help explain exactly what the smart grid is and why it is the future.

Schools and organized groups can make reservations at the facility for free admission.

"When we put the design together, we thought about the different personas we would be bringing through the showcase," Quintal said. "Of course they were the electric utilities and the engineers, but also the local Cub Scout troop or the high school student who may be doing a project on the smart grid, or a teacher in the classroom. We tried to keep all these groups in mind."

Members of the project have expressed a continued desire to coordinate with and hire Tech affiliates to work on this program.

"This has been a partnership with GE and Tech and a combination of government, the private sector and academia," Deal said. "Together, we can do some important things and help change the attitude in our culture in regards to energy."



Council Clippings

This week in Student Government

By Mike Donohue, SGA Editor

Each week, this section includes coverage of different aspects of Student Government, including the Undergraduate House of Representatives, Graduate Student Senate and the Executive Branch of both governments.

WREK

WREK Radio announced plans to request \$97,000 in funding for a new antenna during Tuesday's SGA meetings. Jonathan Walker, General Manager, and Daniel Smith, Chief Engineer presented the proposal to the Graduate Senators and Undergraduate Representatives during the weekly open forum discussion.

The new antenna is the culmination of a multi-year bid for a 100,000 watts non-commercial broadcast license. The license would allow WREK to broadcast at the highest power level allowed for an FM station, extending the station's range both north and west.

Both Representatives and Senators took the opportunity to ask the representatives from WREK several questions about the details of the new antenna and the nature of the station itself. No debate occurred on the proposed bill itself, which will most likely be discussed during SGA's Feb. 8 meetings.

WREK has been planning for this request for the past three years, informing SGA of this request well in advance.

"I will say that the WREK or-

ganization has done everything in its power to ensure that this large request is not a surprise - literally giving SGA three years notice," said Kathy Schnure, Executive Vice President of Graduate SGA. "I applaud the fact that they've been so open, responsible and proactive as a group, and think that WREK's leadership continues to set a great example for the leadership of other organizations on campus."

The bill will use a significant amount of SGA's Capital Outlay account which is designated for large expenditures with operational lifetimes in excess of three years.

According to Brad Bauerkemper, Vice President of Finance for Undergraduate SGA and chairman of the Joint Finance Committee, this bill would use about 20 percent of the remaining balance.

"While it is a pretty staggering figure, this is not a surprise to anyone involved with SGA, and there is, I believe, a sufficient amount of money left in CO to sustain its funding," Bauerkemper said. "...the figure is no doubt imposing, and I believe the bill will and rightly should spark a lively debate in both the house and senate."

Bill Summary

Bill	Amount	GSS	UHR
Solar Jackets	\$11,379	25-3-0	42-0-1
Ramblin' Raas	\$2958.27	24-3-1	38-2-0
Canoe and Kayak Club	\$7000	21-7-0	40-0-1
American Med. Student Assoc.	\$2356.39	22-2-3	38-0-4
JFC Meals	\$792	25-1-0	43-1-0

You can follow Mike at the Nique's blog, The Pulse. Check in at 7:30 p.m. on Tuesday for updates from UHR sessions at nique.net/pulse.

Other bills

SGA considered and passed five bills totaling nearly \$25,000 this Tuesday. Coming mostly from the Prior Year account, the bills passed the House and Senate by wide margins, drawing great enthusiasm from the Representatives in particular.

Solar Jackets requested \$11,379 in funds to pay for equipment for their solar powered car. Intended to last two years and compete twice, the car is mostly funded through outside sponsorships and will travel to Australia for competition.

Ramblin' Raas, an Indian folk dance group, requested \$2958 to pay for travel and registration fees, specifically to Texas and Mich. tournaments. Ramblin' Raas is one of the top-10 such groups in the nation.

Canoe and Kayak Club asked for \$7000 to pay for a new four-person kayak. Meant to allow more people to compete in four-

person races and to replace aging equipment, the new kayak is expected to last well beyond the three-year lifespan required by Joint Finance Committee for capital expenditures.

The American Medical Student Association requested \$2356 to fund their annual pre-health conference. The organization said that it would improve the prestige of Tech's program and increase its profile around the city.

Although its representatives failed to appear for the GSS meeting Tuesday morning, Gamers Guild appeared at UHR. Representatives questioned Guild officials for over 10 minutes about the activities of the organization. The group, which focuses on board and card games, enthusiastically described the many games its members play on a regular basis. The bill requesting Capital Outlay funds for the purchase of over a dozen board games will be debated by the Senate next week.

THIS IS ONLY A TEST

A full-scale test of the **Georgia Tech Emergency Notification System (GTENS)**, the **Siren Warning System (SWS)**, **System to Create & Relay Emergency Action Messages (SCREAM)**, and **Cable TV Alert System (CTAS)**

is set for:

Thursday, February 3 @ 11:00 AM

What you can do:

- Program your mobile phone to recognize the number **404-385-3637**. This test simulates a real scenario and will be the number that appears during an alert.
- Provide feedback. Those who have opted in to the system but do not receive the test alert should visit **www.gatech.edu/emergency/notification** to report your status.
- The GTENS voice message is 30 seconds. Please do not hang up early. GTENS needs that time to determine a live delivery or to your voice mail.

To sign up for Emergency Notification: **passport.gatech.edu**



Admissions applications increase five percent

By Maddie Cook
Staff Writer

Due to a combination of factors, Tech's Office of Undergraduate Admissions extended the deadline for regular decision applicants by a week, to Jan. 21.

The Office of Undergraduate Admissions originally planned to only extend the deadline until Monday, Jan. 17, but due to the winter storm and the consequent school cancellation and delay, the Office of Undergraduate Admissions decided to further extend the due date.

In the application, potential students write in their own grades, as opposed to submitting an official high school transcript.

"When all of the snow hit the Southeast, we thought, even though we don't require a high school transcript, [the students] may have wanted to have access (in their schools) to look once again at their official transcripts, and have access to their teachers and counselors to do a final proof of essays," said Rick Clark, Director of Undergraduate Admissions.

Clark added that the application process for high school students is anxiety-ridden in itself, and extending the deadline would relieve stress for both the students and the admissions office.

"The Undergraduate Office of Admissions expects many applications to arrive the day of the deadline...we did the right thing by



Photo by Dean Liao / Student Publications

The Institute received an overall increase in applications by five percent this year, totaling over 14,100 applications. Due to the poor weather conditions, the admissions deadline was extended.

extending it. Don't underestimate the procrastination of America's youth," Clark said.

On Thursday, Jan. 20, there were 560 applications submitted. The following day, 1025 applications were submitted. These numbers totaled to over 14,125 applications submitted for the enrolling class of Fall 2011, about a 5 percent increase from the enrolling class of Fall 2010, which was 13,500 applications.

The applications submitted for the enrolling class of Fall 2010 showed the largest jump in applications Tech has seen. The applications for the enrolling class of

Fall 2009 was 11,500 and jumped by about 18 percent in 2010.

The students accepted in Early Action this fall had an average SAT score of 1439/2120 and a 3.98 GPA. Over the past two years, competition has increased greatly.

"This year we will be denying more students than admitting them," Clark said. He added that 85 percent of applicants could probably survive at Tech, but Tech can only admit a certain number.

According to Tech's Strategic Plan, Tech aims to increase its graduate classes and not specifically the undergraduate classes.

This past fall, 2446 high school graduates began their first semester at Tech. A cap of about 2650 incoming freshmen has been set for the past three to four years, despite the increases in applications.

"It's a challenge for our staff to individually and holistically review this many more applications. We review these applications with the same number of staff that we had when we were receiving 4000 fewer applications," Clark said. "Application fees certainly generate a sizeable amount of revenue for the Institute but keeping up with the volume increase is becoming increasingly difficult."

X-College from page 1

allow more flexibility in curricula," said Richard Barke, an associate professor in the School of Public Policy and chair of the X-College planning committee. The group, made up of 18 individuals, includes undergraduate and graduate students.

While the committee is still in its developmental stages, some of the main objectives that have come up with redesigning education at Tech include more student faculty interaction in a more diverse learning environment. Innovative teaching and learning and more undergraduate involvement in research are also desired.

Although the idea will be to encourage a flexible curriculum, the X-College environment will strive to ensure depth in at least one area. Cross-disciplinary teams of faculty would supply the necessary structure and guidance, while the curriculum would retain the capstone project element.

"The X-College ideals derive from the idea that education should be effective and adaptable for the individual," said Elle Creel, the undergraduate director of external affairs for SGA and third-year MGT major. "We are not here simply to pass our classes and get out. We are here to get an education, to broaden our perspective, and to become active contributors to our world."

Creel said that with adequate support, the X-College could incite a culture of undergraduate innovation that permeates the entire Institute.

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appreciated. Bring warm
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wetsuits and lifejackets
available.



See you there!

Johnston named ARCH Chair

By Aakash Arun
Contributing Writer

On Jan. 14, George Barnett Johnston, a member of the ARCH faculty at Tech, was appointed as the Chair of the School of Architecture.

The announcement, given at the recently renovated Hinman Research Building (HRB), attracted a number of students and faculty members.

Johnston is the first to secure this newly created position following the rearrangement of the College of Architecture into five principal schools.

Dr. Johnston joined the College of Architecture in 1984, serving as a faculty member at the Institute for an overall period of 26 years.

"He has demonstrated appropriate and effective administrative experience," said Alan Balfour, Dean of the College of Architecture. "He has a national reputation for creative or scholarly work. His doctoral work has given him a deep knowledge of the profession and a vision of its future."

Dean Balfour explained that given the new administration in the Institute, the new chair must be able to take control and act quickly and hence Johnston was appointed to the position.

He believes that Johnston is capable of reforming both undergraduate and graduate education in Architecture to best prepare students for a future that will see dramatic changes in architectural practice.

In Jan. 2010 the College of Architecture was reorganized into five different schools in order to coincide with structure of the other colleges at Tech. The schools were Music, Industrial Design, City and Regional Plan-

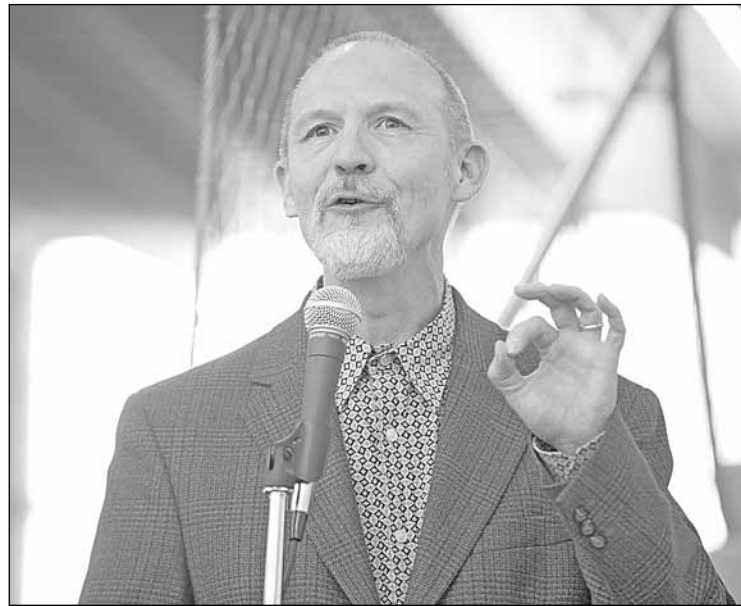


Photo courtesy of College of Architecture

George B. Johnston was named the Chair of the School of Architecture following 26 years as a faculty member in the school.

ning, Building Construction and Architecture.

While addressing students and faculty members at the HRB, Johnston addressed the intentions he had for the future of the School of Architecture.

"Our great cause in the years ahead must be the reform of architectural education to meet the challenges of a changing profession," Johnston said. "The division of knowledge and expertise between the fields of architecture and engineering that served so well in the industrial age is now giving way to a new model of integrated knowledge in the digital age. Who better than Georgia Tech is so well positioned to bridge this divide?"

Johnston further explained that the modern practice of Architecture requires flexibility and an enterprising spirit that comes from engaging the world through

community involvement and international exchange and from weighing the human benefits and environmental costs in everything a person does in their everyday life.

Johnston said that Tech has every reason to be ambitious in charting this direction in the future.

Though recently promoted in 2010, Johnston currently teaches courses in architectural design and also in the history and theory of architectural practice.

Johnston is a registered architect and has practiced in a number of firms in Miss., Ga. and Texas. As the author of the book *'Drafting Culture: A Social History of Architectural Graphic Standards'*, Johnston's current research questions the social, historical and cultural implications of practicing Architecture in the American context.

HOPE

from page 1

mately \$111 million from the lottery expenditures.

Since then, many suggestions have been put forth by legislators and other stakeholders in the public debate. Among the most popular suggestions include cutting the HOPE Scholarship for students attending remedial classes, which have been funded by the program for several years.

Several legislators have raised the possibility of adding a national standard, like an SAT requirement, to the application in order to raise the academic qualifications for recipients.

Another proposal that has been put forth by stakeholders is to cut funding for students attending private and for-profit institutions, including Emory University and others like DeVry University as well as the University of Phoenix. Students at these for-profit institutions are currently slated to become eligible for HOPE funding in two years.

There has also been some discussion about the possibility of raising the GPA requirement for students to maintain their HOPE eligibility. This has caused some concern among members of the campus community who believe that this may adversely affect students who attend institutions like Tech.

"I'm absolutely in every legislative office telling legislators that [this proposal] would unfairly [target] a student...at Tech who has accepted a rigorous curriculum. Students should not be penalized for choosing Tech over somewhere else," Sheheane said.

Some other proposals that have been suggested include a tiered GPA system whereby students within a certain GPA range will receive a predetermined percentage of their tuition covered by the HOPE scholarship.

The Office of Government and

Community Relations and several students hosted state Representative Lynn Walker on campus on Tuesday in an effort to hold a discussion about the issues surrounding HOPE and to articulate different viewpoints on how the program should be reformed over the course of the session.

"[Rep. Walker] shared with us what proposals are viable and those that are not very likely to happen... he also told us what is going on currently at the Capitol, and we were able to share what we were thinking about the issues," said Elle Creel, the undergraduate director of external affairs for SGA and third-year MGT major.

During the meeting, attendees advocated cutting funding for remedial courses as well as the projected funds for students at for-profit institutions.

"Frankly, when you look at Mercer and Emory, they have large endowments and they offer large need-based scholarships. I think the citizens of Georgia still have access to these institutions," said Corey Boone, the undergraduate student body president.

They also spoke against the possibility of raising the minimum GPA requirements, and instead advocated the instatement of an SAT requirement in order to determine eligibility for the program.

"The legislature wants to see this program continue...They're going to do everything to keep the program full and as whole as it can be. We're going to keep a watchful eye on the process and guide them as the legislative session progresses," Sheheane said.

Any drastic changes made to the HOPE Scholarship could affect enrollment at schools within the University System of Georgia. The state legislature will continue to discuss this issue over the coming months during this session, which will continue until sometime in April.

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OUR VIEWS CONSENSUS OPINION

Finances fall short

Tech must continue responsible cuts, consider more

The news about further cuts in the budget comes as little surprise when examining recent trends. The cuts seem justified considering the revenue shortfalls Georgia continues to experience. The administration at Tech thus far has handled the situation admirably, and while the cuts will not come without some hardship for students, faculty and staff, the confidence in the administration being able to properly manage these difficulties is unwavering. But the administration must also be diligent to ensure that higher education becomes the first agency to have its funding restored once the economy turns around.

The budget cuts also offer an opportunity for Tech to use its innovative nature to find new sources of funding and streamline opportunities to gain maximum output. The Institute will emerge from this time of budgetary constraints leaner and more efficient than ever before. Tech should also leverage

its position within the technology community to seek out new funds, especially considering the new push on the federal level to fund innovation to help spur growth in the economy.

The administration must be cautious about pursuing and implementing a unilateral tuition increase. While the costs associated with educating students at Tech is generally higher than at any other university within the State of Georgia, the Institute risks alienating students and lawmakers if it tries to raise tuition above the level that other research universities are currently set. Students may be reluctant to attend Tech if other schools of the same classification in the state offer lower tuition prices, and state lawmakers may balk at giving the Institute more funding when the financial situation turns around if Tech shows a willingness to make up for short falls on its own. A tuition increase may be needed, but it should be done on a system-wide basis.

The Consensus Opinion reflects the majority opinion of the Editorial Board of the Technique, but not necessarily the opinions of individual editors.

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EDITORIAL CARTOON BY ROSE PENG



Government must embrace new practices

By Keith Yost
The Tech

Cambridge, Mass.—As the U.S. Congress (belatedly) hammers out this year's federal budget, our politicians and pundits have focused their attention on three questions. First, how important are the activities that government performs relative to the private enterprise that it supplants? Second, how redistributionary should our system of taxes and spending be, both in terms of how much we take from the rich to give to the poor, as well as how much we take from future generations to give to the present? And finally, which presents the greater risk: a failure to provide Keynesian stimulus today, or a potential debt crisis tomorrow?

These are crucial questions, and I don't mean to take away from their importance, but there is a sort of futility to them. At their heart, these questions frame the debate as one of making a choice among a frontier of possibilities, as one of making trade-offs between risks, costs and benefits in which each new cut or tax produces winners and losers, but seemingly no reform could make us all better off.

Nowhere is the government's dysfunction more apparent than in public education. Per pupil, adjusted for purchasing power parity, Poland has spent less than a third of what the U.S. has in secondary education, and yet has outperformed the U.S. in nearly every secondary education test in the past decade. They're not alone; almost every Eastern European country can make the same claim. Can this really be the result of cultural differences or some twisted sort of American exceptionalism? Are Slovak students really smarter, Polish children more diligent, or Hungarians better at parenting than we are? Surely not.

The more likely explanation is that contrary to other educational systems, we fail to fire bad teachers or use merit pay to attract and retain good ones. A mounting body of evidence indicates that if public schools merely used a teacher's performance during their first three years to weed out the lowest performing teachers before they were granted tenure, this effect alone would be larger than several other proposals (longer school days, longer school years, smaller class sizes) combined, and at a fraction of the cost. But instead of firing bad teachers and paying good teachers more, we continue to demand that our teachers earn master's degrees and earn certifications despite virtually no evidence that these requirements have any significant effect on quality of education.

It is easy to blame teachers unions for the poor human resources policies in our schools, and indeed, unions are a large part of the reason why education reform often fails to make headway. But the failure is not limited

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to unionized work forces. Across all of our governmental programs, the personnel management is the same: government workers get their jobs by earning the diplomas or certificates that we pretend separate the productive workers from the unproductive, and then are promoted almost solely on the basis of how many years they fill a chair, not how well they do their jobs. It doesn't matter if the workers belong to a public service employees union or not: our military has been bleeding away its finest officers for years. If you ask the departing officers why they're leaving, they consistently blame the sclerotic military bureaucracy that mints generals on the basis of seniority, assigns personnel in a manner that is blind to skill sets and preferences and encourages conformity over entrepreneurship.

The free market often does no better: as most who have worked in corporate bureaucracy can attest to, the private sector has the potential to be just as inefficient as any public administration. Today's Great Recession ended the jobs of roughly one in 10 workers in the private sector while output hardly budged at all. The implication is that before the crisis, one in ten workers sat in their cubicles watching YouTube all day, and it was only the threat of collapse that pushed companies to release their deadweight. Still, unlike government offices, if businesses persistently fail to fire their worst and reward their best, they'll go bankrupt and be replaced by those with better workforce management.

Unfortunately, our leaders have long been delinquent in their duties. Rather than tackling the hard problem of squeezing more out of its workers, government has raised the compensation of its employees across the board in a crude effort to staunch the exodus of its best and brightest. But bad employees like money just as much as good employees, and without any effort to separate the wheat from the chaff, productivity in the public sector has remained low.

The effect has been disastrous on public finances. Faced with balanced budget requirements, many states have raised the compensation of their employees by offering wildly unsustainable pensions, and thus pushed the

Class sizes reach unfavorable limit

Last Wednesday, I sat down in a classroom filled with 140 people for the first lecture of my ISYE 3039 class. Compared to first days of past semesters, the class seemed more crowded. While I thought to myself that it could have been because of the blizzard the preceding week or the fact that 10 students were sitting on the ground, something still didn't feel right. Then finally, the reason for the almost claustrophobic sense of questioning hit me: the classroom only had a capacity of 106 people.

Most Tech students have experienced the 200-person lectures in Howey Physics for calculus, physics or other traditionally freshmen-oriented classes. Moreover, we are told that, by senior year, class sizes will be considerably smaller as they will be geared towards our majors instead of overall prerequisites. Yet this semester alone, there are 3000 and 4000 level classes, which have been capped at 60-70 students in the past, overflowing with more than 100 students. The ISYE 3039 class I mentioned above is a shining example of that trend; the class had an original cap at 60, which was then increased to 90 and finally upped to 140 after the approval of override students.

The response from the administration and school departments has been less than helpful. With in one of the most extreme circumstances



"Each academic school as well as the Registrar's Office should actively monitor and cap registration."

Vivian Fan
Managing Editor

of administrative response, one department offered to give the first five students to switch sections of a class a "small GT gift of [the student's] choice valued at \$20 or less" as a "tiny token of appreciation." In some cases, the most explanation or advice that was offered to students was the chance to present a "compelling case" in order to get into a class. This begs the question: why should there be anything even close to an audition process to get into major-required classes for an education that we pay tuition for?

Class sizes do affect student performance. Overcrowded classes may impact one's ability to hear, interact and even properly take notes. There also lies a danger of decreasing the accessibility of professors, with growing numbers of students in each professor's class. After all, it was Tech that was named in the top 10 in "least happy students" by the *Princeton Review* in the early 2000s, in part for its "scarce professors." Then again in 2005, the student faculty ratio was listed as 14:1.

This ratio has since increased to 20:1 in 2009.

Indeed, the administration, faculty and the registrar's office do make an active effort to enhance student registration experience through task forces and a number of projects. However, these groups need to overlook complicated improvements in favor of fixing simple problems. Simple resources such as classroom space and professors need to be allocated in a better way in order to accommodate student demand in an effective and efficient way. After all, who ever heard of building a skyscraper without a proper base?

Each academic school as well as the Registrar's Office should actively monitor and cap registration for certain classes and circumstances. If a student is graduating within the next semester or two, then that student should not have to struggle to get an override into a class. In some upper level engineering electives this semester, graduating seniors have had to request an overload into classes that may have

been made up by juniors with more hours or those who had their spots reserved by someone else. Those seniors should have priority in selecting the classes in the courses they need to take instead of giving spaces to lower classmen who still have time to take the class in future semesters.

Furthermore, if there are too many students in a class or who want to take a class, the solution is not to simply up the cap in student enrollment. The too obvious solution would be to create an entirely new section all together, especially if there are even more students trying to override in. Yet while this idea comes with its own set of issues such as not enough professors/TAs to teach or enough capital (both monetary and space-related) to support a new section, it is a necessary evil to ensure Tech's future as a top academic institution. While budget cuts may hinder the ability to hire more faculty and TAs right now, the administration should offer more innovative solutions to temporarily alleviate the problem of classroom overcrowding.

Until changes are instituted, one can only discreetly hope that come drop day on March 4, the issue of classroom overcrowding will naturally resolve itself through one means or another. Then again, maybe people will just stop showing up all together.

Communication helps roommate relations

The Roommate trailer purposefully plays on the fears of entering college freshmen everywhere that are planning on getting a random roommate. While the chances are very slim of ending up with an obsessive psycho killer as your roommate, there is a very real chance of ending up with someone you can't stand. However, everyone starts out with the potential to be friends, and if certain preemptive measures are taken, this relationship can form, if not into best friends then at least into agreeable companions.

My own experiences with roommates was thankfully a fairly pleasant one, all things considered. I was spared having a completely random roommate freshman year by joining a Facebook group aimed at helping incoming Tech freshman girls who did not want a random roommate find a roommate, which I highly recommend doing. In this way I was able to make sure I was at least rooming with someone normal, if not someone I was yet friends with. I left for college with high hopes and an open heart.

Unfortunately, due in large part to my private personality and the ungodly smallness of Freshman Experience dorms, our personalities did not mesh too well. I'm the type of person who needs my alone time, and our room became almost the hangout spot for several girls on my floor that my roommate



"If something your roommate is doing is bothering you, let him or her know in a nice way."

Patricia Uceda
Entertainment Editor

was friends with.

I am in no way trying to place the blame on her, because a normal person probably would have just joined in, but I am just not that outgoing and ended up feeling a little awkward and excluded. As a result, I spent most of my time in a different dorm building where several new friends of mine lived and ending up switched dorm rooms spring semester to live with one of them.

However, overall it was not a bad random roommate experience compared to stories I've heard from friends. I think we could have avoided a lot of the awkwardness by instead of trying to handle each problem as it came, establishing certain ground rules from the start. I realize it is spring semester and you freshmen have already been living with your roommates for a semester, but if you don't get along with him or her and have not yet established some ground rules, I urge you to do so now. Hopefully these will help mend your relationship and make your living experience more agreeable.

First figure out your studying types. If one of you needs complete silence when studying, establish a no music policy while someone is trying to get some work done. If you are both the type of people who can have music and the TV on while simultaneously studying, I envy you. If you're one of those types of people that need music to study, be considerate and buy an iPod.

However, there is a caveat to this rule, because if you're the type of person who studies nonstop in between classes and at night, you should probably be considerate and go to the library some of the times so you can spare your roommate.

A cleaning rule is also important. Avoid any problems by agreeing to keep your side of the room livable and clean. There should also be some sort of schedule established for taking out the trash, because it's not fair for one person to always have to do it. If you've been happily rooming with someone all semester and have never taken out the trash, I am sorry to inform you that your

roommate is probably highly annoyed with you and you should start pitching in now.

It's also smart to set up some boyfriend/girlfriend visitation rules if one of you is in a relationship. Be considerate of the other person, and if they are trying to have alone time, leave. However, this goes both ways, and you shouldn't have a friend over at all times of the night. Another rule you should both follow is agreeing to not touch the other person's belongings without asking first. Even if you think it's something small like a paper clip, those little things can add up.

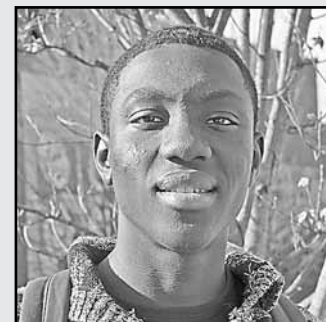
When it comes to night life, it's nice to establish the rule that if one of you is going out and the other is not, upon your return to the dorm room you should not slam the door open and turn on all lights as you prepare yourself for bed; that would probably not only wake up your sleeping room mate, it would annoy him or her immensely. Instead be thoughtful and quietly change, preferably in the dark.

An underlying rule should be communication. If something your roommate is doing is bothering you, let him or her know in a nice way. I'm sure they don't even realize it's bothering you, and once you bring it up they will be more than happy to stop. As long as you have these ground rules established, there is no reason why you shouldn't get along great with your roommate.

BUZZ

Around Campus

What would you change about the HOPE Scholarship?



Hassan Faye
Second-year MGT

"I would change that it doesn't cover the whole cost of books or housing."



Ronnie Foreman
First-year AE

"I would add a research stipend for students with a GPA over 3.5."



Jack Morgan
Fourth-year CS

"Just make it more Tech friendly."



Keshav Prasad
Second-year ME

"Make the GPA 3.3."

OUR VIEWS HOT OR NOT

HOT^{or}-NOT**Capturing the Capitol**

After Mother Nature did her best to prevent the first scheduled GT Day at the Capitol by giving Ga. its most disruptive winter storm in nearly two decades, Tech representatives will try again on Tuesday. Staying engaged in the legislative process is more important now than ever for members of the community as the state still tries to navigate the budget situation.

**Crowded class**

When classes start to get so over-crowded that Tech tries to incentivize students with gifts to switch classes, there is officially a problem. Hopefully, the ISYE school and the administration can try to find a better solution to this problem in future semesters. Everyone can agree money could be much better spent hiring more TAs than buying superfluous gifts.

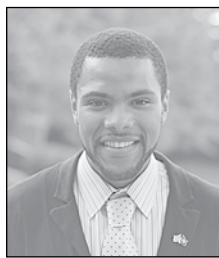
**Record recycling**

At least not everything this football season turned out to be a loss as Game Day Recycling set a record this year by diverting 21 tons of waste from landfills. The program reinforces Tech's commitment to sustainability and incorporating eco-friendly practices into Tech traditions. The waste recycled accounted for 19 percent of the waste produced during game day.

**Snail mail**

The lines at the Student Center Post Office during the beginning of the semester are traditionally longer than usual. This semester, the lines have grown to the size of lines at traditional post offices. Luckily the staff at the package pick-up area have kindly added more line partitions so students won't be confused on where to stand for 30 plus minutes.

HOPE Scholarship Program can be sustained with reform



"We are mindful of the fact that concessions must be made on both sides. Nevertheless, we, the college students, expect to be engaged in the process."

Corey T. Boone
Undergraduate President



Joshua Delany
UGA Student Body President

Attending Tech and UGA, respectively, represents the fulfillment of a lifelong dream for us. Unfortunately, it appears that this dream may be deferred for thousands of Georgia's college students if our State Legislature fails to act.

During the election season, we heard bluster from both sides of the aisle promising to finally make the HOPE Scholarship sustainable. As the ideas come forward, we have one adamant reminder—remember the original purpose of the HOPE scholarship.

HOPE exists to make a secondary education accessible to every qualified Georgian. So it is surprising to us when we hear proposals to increase GPA requirements and to implement funding caps, as this would not effectively and permanently cure the HOPE Scholarship's ailments.

The students of Tech and UGA have some thoughts on how the State can address this problem.

Govt. from page 6

burden of their mismanagement onto future generations. For the federal government, with no such accounting restrictions, the consequences have been much the same, with bloated salaries adding billions to our national debt.

It is time for a reform of our

We encourage our Governor and State Legislature to keep these points in mind.

First, the HOPE Scholarship currently funds remedial courses, a socialized Pre-K program, private college and university education and access to a technical school education. It is incredibly difficult to justify that a student is qualified to receive a merit-based scholarship if he or she is not adequately prepared for college.

We also question whether funding private and for-profit education was the original intent of the HOPE Scholarship. Additionally, if college students must make concessions, the pre-K program and the Technical System must make equitable concessions as well.

Next, revenues from the HOPE Scholarship are solely based on the lottery system. Our lawmakers need to work with the Lottery Corporation to ensure

that our State's appropriations are in line with the national average or explore alternative means of revenue for the scholarship such as Sunday alcohol sales or video lottery terminals.

Finally, the HOPE Scholarship must always fund 100 percent of tuition costs. To meet the original intent of the merit scholarship, deserving students should not have to go into debt to cover the cost of tuition.

We are mindful of the fact that concessions must be made on both sides. Nevertheless, we, the college students, expect to be engaged in the process. Limiting the total amount awarded to an arbitrary cap disproportionately harms the State's research universities that have higher tuition rates. Solving this issue will not be easy, but we did not send our lawmakers to the Capitol to make easy decisions. We sent them to make the right ones.

civil and military services. Last month, the National Commission on Fiscal Responsibility and Reform recommended a three year freeze on the salaries of public employees and a 10 percent reduction in employee numbers. The size of these cuts is appropriate, but the method matters as much as the magnitude—it does us little good

to fire one out of ten employees randomly, freeze the pay of our best workers, or continue to offer inflated paychecks to the worst public employees. The private sector shed 10 percent of its workforce without a drop in output—the demand we must make of our politicians is that they reform our government and achieve the same.

The Real Goal of the Green Climate Crusade

Keith Lockitch, fellow at the Ayn Rand Center for Individual Rights

Environmentalists claim that our use of carbon-based energy is altering the climate, making us more vulnerable to climate disasters. Human survival, they insist, requires the immediate abandonment of fossil fuels in favor of carbon-free sources. So why do environmentalist groups vehemently oppose projects involving every alternative form of energy ever proposed to replace fossil fuels—including wind farms and solar power plants? And why do they ignore the dramatic degree to which industrial development under capitalism has reduced the risk of harm from severe climate events? Before we rush headlong into drastic climate policies and energy rationing, a critical examination of these policies is urgently needed. Dr. Keith Lockitch will address these important issues and answer audience questions.

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CRIME IN ATLANTA

GTPD EVALUATES CAMPUS CRIME PRACTICES

By Gaines Halstead
Contributing Writer

After grades, safety seems to be the second most important issue on the minds of Tech students and faculty these days.

Whether living on or off campus, every member of the Tech community faces the same security challenges that come with living in a major metropolitan area like Atlanta.

The Georgia Tech Police Department (GTPD) has committed itself to tackling this challenge head on.

Through new tactics that include segway mounted patrol officers to a now nationwide crime prevention campaign, GTPD has helped to lower the overall crime rate on Tech's campus and surrounding areas by 24.1 percent since Nov. 2009.

The past two years have seen a substantial decrease in the number of Part 1 crimes, a category that covers more serious incidents such as murder, rape and motor vehicle theft.

"It's hard to say one thing [led to the decrease in major crime related incidents]. As campus is growing, we are growing to ensure the safety of the student body and the community as a whole by providing more officers and more preemptive measures," said Alex Gutierrez, an officer of the GTPD Crime Prevention.

Gutierrez went on to talk about anti-crime campaigns to educate students such as "Clear the Clutter," a new initiative to get students to remove valuable personal possessions from plain sight or from their cars all together.

"Crimes occur when opportunity arises for the criminal. Take away the opportunity, and you can help prevent crime," Gutierrez said.

The progress of the "Clear the Clutter"

campaign at Tech has caused campuses across the country to implement the same strategies.

Officers from the Tech community have traveled to various universities that are leading seminars on maintaining school safety to try and see how they are dealing with the same problems.

On a campus that provides on-campus housing to over 9700 students, who in turn make up 54 percent of the Tech student body, campus security and safety plays a major role in day-to-day priorities of Tech.

Two police stations have been established on either side of the campus perimeter to help cover the growing size of campus life.

"I feel that campus security has done a wonderful job of protecting me, and that's why I chose to live on campus for my second year here at Tech," said Margaret Wright, a North Ave. Apartments resident and a second-year MGT major, of her choice of residence.

"[GTPD] responded in a timely manner, and I've noticed them working harder to prevent situations like that from happening again," Wright said of recent incidents in North Ave.

Although campus has experienced an overall decrease in crime, smaller crimes, including bicycle thefts and larcenies from not only buildings, but also coin-operated vending machines, have increased in the past year.

Students who live on the perimeter of campus seem to be getting hit the hardest by these crimes.

Residential areas not directly affiliated with the Tech campus, such as Centennial Place Apartments and Home Park have had the largest occurrences of these smaller crimes.

See **Crime**, page 12

Photo (top) by Christopher Gooley / Student Publications
Photo Illustration by Vivian Fan / Student Publications

Entrepreneurs, leaders share tips with Tech students

By Mehfouz Jalal
Contributing Writer

As a means to provide students at Tech with the opportunity to hone their leadership skills and gain exposure to the behind-the-scenes work of various careers, Omicron Delta Kappa (ODK) hosted its annual Georgia Tech Leadership Conference (GTLC) on Saturday, Jan. 22, at the Klaus Advanced Computing Building.

Sponsors of the event included Coca-Cola, Coca-Cola Enterprises (CCE), Chik-fil-A, Siemens, Residence Hall Association and the Department of Housing.

The theme for this year's GTLC was "Entrepreneurial Spirit and Innovation."

The event's kick-off was followed by an address by key note speaker, John Brock, Chief Executive Officer of CCE and CHE '70, MS CHE '71.

Brock provided several insights on the subjects of leadership, management and success within the business and real world.

"It is important that a leader possess both innovation and entrepreneurial spirit. They should have the ability to listen to ideas, make them better and be able to express them in a simpler manner so that one may be able to communicate them better. There is a need to foster such skills. However, they are not innate to all and conferences such as these help achieve such a skill set," Brock said.

The conference continued with workshops held by various individuals and organizations including the Tech Alumni Association, the FASET cabinet, President's Council Governing Board and Cultural Council. Attendees had a choice of going to two of the eight workshops offered, spanning various themes such as networking, marketing obstacles, interviewing skills and public speaking.

Following lunch, GTLC included an entrepreneurship panel

See **GTLC**, page 11

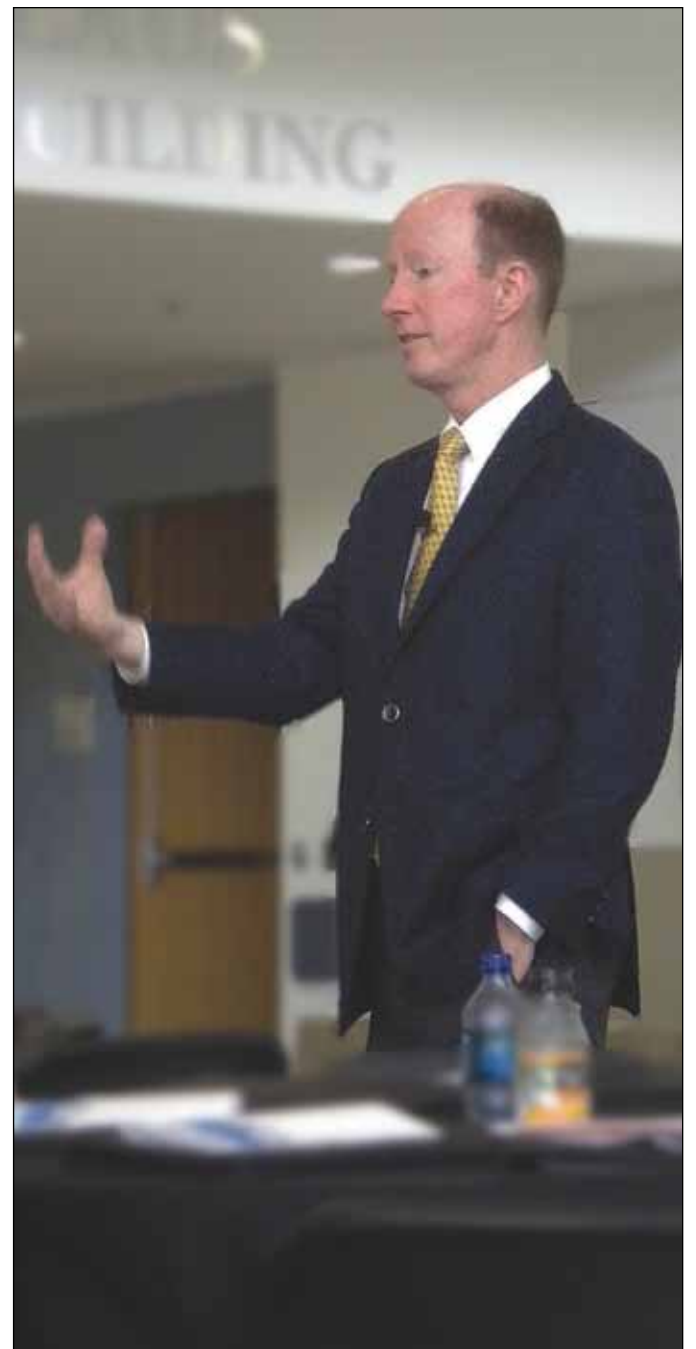


Photo by Sho Kitamura / Student Publications

John Brock, Coca-Cola CEO and a Tech alum, shared his entrepreneurial experiences with Tech students at GTLC.

Students discuss political civility in Open Forum

By Divya Varahabhatla
Contributing Writer

In 2007, Karen Adams, the Interim Director of the Fellowships Office began her career at Tech and decided to attend a National Association of Fellowship Advisors Conference. There she heard of the concept of an "Open Forum," a forum through which students engage in discussions to express their opinions.

At Tech, Adams collaborated with Dana Hartley, the director of Undergraduate Studies, to create the Open Forum. It is a group effort of students, staff and faculty to discuss different socio-political topics.

From the time of the inception of Open Forum, Adams noted that students needed a way to answer difficult questions and to hear what others' views were on

those same issues.

She spoke of Dr. Hartley's own experience as an MIT graduate student who was involved in similar "open forums" with her professors.

"This time to talk with both faculty and peers, find out what they were doing and thinking, and as a result, discover personal thoughts about many subjects, proved to be an important part of her development as a student," Adams said.

Both creators were concerned that "students are busy and often do not come to meetings others set up," according to Adams, so a student Open Forum Board was established to incorporate the student body into the project.

"The Open Forums are meant to provide a venue for students, faculty and all members of the Tech community to discuss phil-

osophical topics," said Ameet Doshi, the User Engagement Librarian and Assessment Coordinator.

The objectives listed on the website, www.gtopenforum.gatech.edu, include "[promoting the] intellectual community, [broadening] students' perspective, [developing] comfort with diversity, and [enhancing] speaking and listening skills."

"[It is] one more step toward creating a culture of intellectual community at Georgia Tech," Hartley said.

This week, the Open Forum discussion covered civility, "Politics and Civility: Watch Your Mouth...or Not."

"Participants in Open Forum are surprisingly varied. Just like the members of the Executive



Photo by Sho Kitamura / Student Publications

At Open Forum, students can freely interact with faculty members to discuss a wide range of political, social and cultural issues.

See **Open**, page 11



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GTLC

from page 9

to discuss various experiences and difficulties faced by entrepreneurs right after they graduate from their respective universities.

The panel consisted of several well-noted Tech alumni who had gone on to become successful entrepreneurs.

The panelists included Lara Hudson, co-founder of Nourish, Inc. and CEO and co-founder of Insomnia LLC; Riccardo Ullio, a restaurateur who now owns several Atlanta restaurants including Sotto Sotto; and Andrew Punnoose, a 2009 recipient of the In-Venture Prize. The panel included four other team members and a robotics Ph.D. candidate.

The panel moderator was Kathleen Kurre, whose work experience gave her knowledge about integrating technology and business within the corporate sector.

With her help, the panel was able to interact with the students quite freely and vice versa.

"Passion is very essential. Passion toward problems your device



Photo by Sho Kitamura / Student Publications

Hosting over 120 students from majors, clubs and leadership roles, the Georgia Tech Leadership Conference had discussions on a multitude of views on leadership styles and entrepreneurial goals.

will fix is more important than passion towards the actual product," Hodgson said of becoming a successful entrepreneur.

Over 120 participants attend-

ed GTLC, spanning a variety of majors and levels of seniority. This year's attendance has been consistent with rates of attendance over the past.

The mixed range of majors helped provide GTLC attendees with a diverse and accepting atmosphere similar to that which all entrants to the job force can

expect upon graduation. The atmosphere thus fostered a sense of leadership within the attendants.

"It is our goal to equip you with the skills needed to forge your path at this Institute and beyond," according to GTLC mission statement.

"The combination of John Brock along with the breakout sessions and entrepreneurship panel helped make it a success. We had organized and contacted several large companies and a few small companies as well for this event and it has helped us achieve our goals. All Georgia Tech students should be leaders within their community," said Travis Horsley, GTLC organizer and co-chair and a PUBP grad student, as a closing remark for GTLC 2011.

As GTLC came to an end, ODK announced "Fresh Direction," an event to be catered toward freshmen leadership which will be on Feb. 12. ODK will be partnering with Mobilizing Opportunities for Volunteer Experience (MOVE), a service-oriented organization.



Photo by Sho Kitamura / Student Publications

Students and faculty can engage in discussion in small group settings, and then come together to share the differing opinions.

Open

from page 10

Board, we have students, faculty, staff and even alumni participate in our discussions each week," said Lindsay Anglin, Marketing Coordinator of Undergraduate Studies.

"It's generally good conversation with people from different disciplinary backgrounds," said Nirouz Elhammali, IAML '07.

The Executive Board chooses the topic.

"The board [tries to strike] the right balance in the discussion, students have the opportunity to fully explore new ideas while relating them back to insights on campus," said Austen Edwards, a board member and a third-year INTA and PUBP double major.

"[I have] always been interested in the big moral and philosophical questions," said Anna Alexander, a board member and a fourth-year MSE major.

Another aspect of public speaking that the forum sponsors is allowing a participant to share a "This I Believe" essay.

Undergraduate Student Body President Corey T. Boone and Honors Program Director Greg Nobles have each shared essays on their personal beliefs at previous Open Forum events.

On Feb. 1, Matt LeBrun, a fourth-year MGT major, will present his "This I Believe" essay.

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School of Biology celebrates 50 years

By Kamna Bohra
Focus Editor

In 2010, the School of Biology celebrated 50 years of being an academic and research department at Tech. Founded in the 1959-60 school year, the school has grown from its five founding faculty members to a research faculty of 30 and a combined undergraduate and graduate student body of over 550.

"I came to campus on a visit in the spring of 1986, after I had accepted the job offer to start as an Assistant Professor in Biology that fall. I got lost on campus and stopped a couple of students to ask how to get to the Biology building. The two students looked at each other, then shrugged and one of them said, 'I didn't know Tech had Biology,'" said Jung Choi, an associate professor in the School of Biology, of his first visit to his department more than 20 years after its creation.

The school now participates in nine collaborative research centers, including the Center for Bioinformatics and Computational Genomics; the Center for Ribosomal Evolution and Adaptation and the Ovarian Cancer Institute.

The school conducts research with other schools ranging from engineering to chemistry and physics. The School of Biology works with engineering disciplines, such as ChBE, EE, ME, BME and CE, according to Terry

Snell, Interim Chair of the School of Biology.

Within the School of Biology alone, the faculty participates in multiple research projects, including studies in drug discovery, astrobiology, biodiversity, computational biology, biosystem regulation, cancer research and genome decoding.

While professors, research faculty members and graduate students are invested in these projects, they receive assistance from undergraduate Biology majors as well.

One of the main features of the school's curriculum is the requirement of research experience, either by the production of an honors thesis through work in a research lab or by the completion of a project laboratory course that is a guided research experience.

"All of our graduates have conceived of a biology problem, designed an experiment to test a hypothesis...that all culminates with a presentation, both oral and poster," Snell said.

Snell also said that at least 60 percent of the biology majors become involved in a research laboratory at one point in their undergraduate career.

The research activity within the school generated \$12.3 million during the fiscal year of 2010, compared to the \$1.8 million a decade before in 2000. Most of this money is extramural, coming from grants and contracts, ac-

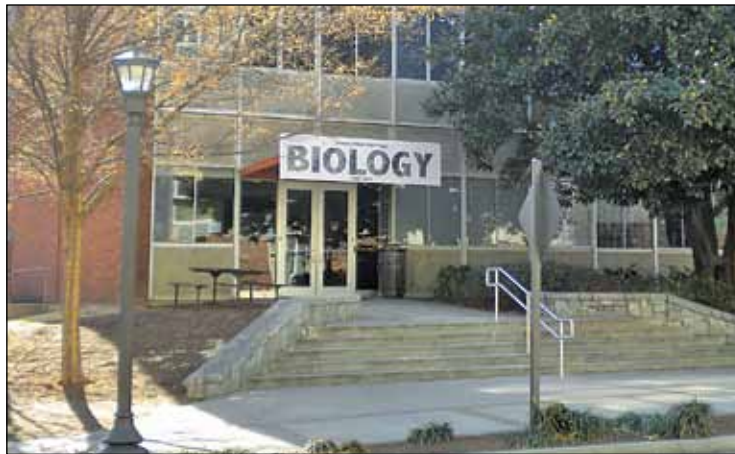


Photo by Sho Kitamura / Student Publications

Research conducted in the School of Biology generated \$12.3 million in 2010, over tenfold the amount earned a decade before.

cording to Snell.

Alumni donations are small for now because the existence of the School of Biology is such that its first graduates are just now retiring.

The style of thinking required for standard laboratory courses has changed over recent years to match this theme of research.

"Our laboratory courses now require our students to think like scientists and design their own experiments rather than follow prescribed 'cook book' directions. Our students also practice critically evaluating biological literature," said Jennifer Leavey, a senior academic professional in the School of Biology.

The biology major allows for students to participate in a wide

range of organizations beyond research.

"As the number of Biology faculty increases, there will be even more opportunities for students to engage in scholarship through undergraduate research and to innovate through programs like the iGEM competition," Snell said.

Tech's School of Biology presently No. 56 in the nation, rising from a No. 72 ranking in 2005, according to Snell.

"The outlook for the school is to continue to develop biology, leveraging assets of Tech, to produce a highly and nationally ranked program," Snell said.

Snell indicated that computation, engineering and research would continue to be the emphasis of the program.

Crime

from page 9

"I don't feel Home Park security is up to par because a lot of the crime reports I get seem to occur in my area. I do understand that this is a larger environment in which can occur," said Jonathan Vallecillo, a first-year PUBP major who will soon complete his fourth month living in Home Park.

Similar to many of the parents of Tech's student population, Vallecillo's parents were weary about his moving directly into the heart of the city of Atlanta.

"My parents preferred that I live on campus, but I chose not to, mainly because I felt like crime could happen off campus just as well as on campus," Vallecillo said.

"I've always lived in Centennial Apartments and [felt] relatively safe. I knew that there would be a greater risk living off campus, but I've personally never been affected by crime. I think that there has definitely been a greater amount of police presence in the last few years, and I think campus security is headed in a positive direction," said Mark Sweat, an off-campus resident and ME '10.

GTPD has plans for an "earth-friendly" path in its near and distant future to help encourage people to walk and bike to get around campus.

"As campus is becoming greener and roads are closing, we are utilizing more efficient methods of transportation like bikes and segways that allow us to move around campus with greater ease," Gutierrez said.



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WEST SIDE STORY at Fox Theatre

West Side Story leaves much to be desired vocally but delivers in execution



Image courtesy of BRAVE Public Relations

SHOWS

West Side Story

PERFORMER: West Side Story

LOCATION: Fox Theatre

DATE: Jan. 25 - Jan. 30 2011

OUR TAKE: ★★★★★

By Daniel Fuller
Contributing Writer

The Fox Theatre's current production of *West Side Story* delivers a classic theatre experience of blended comedy, drama and great music. This particular musical has been around since the 50s, which is also the time

for the setting. For those unfamiliar with this particular classic, the plot is essentially *Romeo and Juliet*, but with gangs in New York City. The Shakespearean origins are more of a starting point than a formula, as the play diverges in several respects, which is not entirely predictable based solely on knowledge of Shakespeare's work. Because the basic structure of the play is not anything new, its strengths arise through those attributes unique to musical theatre: singing and dancing. By these two standards, the version of the show on display at the Fox Theatre is weak in one but strong in the other.

The musical score of *West Side Story* was composed by Leonard

Bernstein, so all of it is masterfully arranged and beautiful to listen to, even between scenes and during dance numbers. The orchestration was executed without any glaring flaws, providing a solid musical foundation for all that happened on the stage.

The singing was less consistently good. Of the two protagonists, Maria, played by Ali Ewoldt, sang with strength and accuracy, whereas Tony, played by Kyle Harris, frequently struggled with the upper ranges of his voice. The fact that the two made a romantic pair meant that Maria clearly dominated any duets that the couple had on stage, slightly weakening the effect of the emotion of the songs. Of the rest of the cast, only

Anita, played by Michelle Aravena, stood out as a strong singer.

Fortunately, the success of many of the musical numbers did not depend as much on solo musical talent as it did on energy and emotion. One of the best numbers in the play was "Gee, Officer Krupke" in which some of the gang members do impressions of a policeman, a judge, a psychiatrist and other public figures to ridicule how those figures perceive the gang members. The song is very silly, and the antics of the characters on stage make it very fun to watch. This energy exists in several other numbers, all of which stand out as more enjoyable than the softer, musically technical pieces.

The liveliness in the ensemble numbers carries over into excellence in dancing talent. The choreography for the show is well-done, which is good for the audience because there is plenty of it.

Large portions of many songs are simply dance numbers, but these dance numbers are both interesting to watch and also frequently serve to communicate the relationships and emotions of the story. In particular, they express the underlying themes addressing love and racism. In dancing segments that double as gang fights, the timing is especially precise, show-

See *West*, page 15

Strings does new take on traditional rom-coms

FILM

No Strings Attached

GENRE: Romantic Comedy

STARRING: Natalie Portman, Ashton Kutcher

DIRECTOR: Ivan Reitman

RATING: R

RELEASE DATE: Jan. 21, 2011

OUR TAKE: ★★★★★

By Hank Whitson
Staff Writer

I am not a fan of romantic comedies, so I did not expect to enjoy a second of *No Strings Attached*. Therefore, it is to the movie's considerable credit that I left the theater good-humored and glad to have spent the price of admission.

No Strings Attached pulls a flip-flop on the traditional Hollywood rom-com in a couple of ways. Instead of two people falling in love until they finally hook up, we have two people hooking up until they finally fall in love.

Instead of a hopelessly romantic girl pining for a guy who is afraid to commit, we have a hopelessly romantic guy chasing after a girl who is afraid to commit.

Everything else is perfectly predictable. There is an awkward courtship followed by miscommunications that result in a tragic estrangement and then everything ends happily-ever-after, with a wedding no less.

Our Romeo is Adam, a happy-go-lucky production assistant for a *High School Musical* type-show, played by Ashton Kutcher.

The Juliet is Emma, an overworked emotionally distant medi-

cal resident played by Natalie Portman. Both leads are awkward, affable and attractive as they ought to be considering that these are the same sort of roles Portman and Kutcher always do.

Fortunately, the couple has a healthy chemistry when they could have just as easily sleepwalked through the film.

This is largely thanks to a lively script with punchy dialog, blunt humor, odd 90s musical references and a cast of supporting characters who alternate between likable and despicable.

Adam's dad, played by Kevin Kline, is a drug abusing, has-been TV star who is dating his son's ex-girlfriend. Chris Bridges, perhaps better known as Ludacris, puts in a fun performance as Adam's smart and surprisingly sensitive



Image courtesy of Paramount Pictures

See *Strings*, page 15

DC offers players chance to become superheroes

GAMES

DC Universe Online**CONSOLE:** PlayStation 3, PC**GENRE:** MMORPG**DEVELOPER:** Sony Online Entertainment**RATING:** T**RELEASED:** Jan. 11, 2011**OUR TAKE:** ★★★★★

By **Andrew Akker**
Contributing Writer

In the world of massively multi player online role-playing games, or MMORPGs, one of the most anticipated games has approached comic fanatics in *DC Universe Online*. This game from Sony Online Entertainment allows players to immerse themselves in the world of DC Comic and live their childhood fantasies of becoming a superhero.

The level of detail in the game in reference to the actual comic

superhero characteristics is phenomenal. Sony also was able to use famous voice actors such as Mark Hamill as the Joker, Kevin Conroy as Batman and even Wil Wheaton as Robin.

Upon starting the game, the player is walked through the character creation process. The player is allowed to customize the look and powers of the superhero to their liking. The player has the option to pick the hero side or the villain side, and a mentor must also be chosen for the new superhero. The player can choose between Superman, Batman and Wonder Woman if the player chooses to be a hero, or Lex Luthor, The Joker and Circe if you're a villain.

Different powers are also available to choose from such as fire or ice powers. Fighting styles such as brawling and using guns or swords can also be customized to what the player creates. In addition, the player can choose from three special moving abilities. One can harness the power of flight, acrobatics or super speed.

When the player enters the world, they are awoken inside of Braniac's lair in a futuristic story line. The player must fight his or her way to meet up with Superman, Batman or Wonder Woman depending on who the player's mentor is. Once that part which serves as the tutorial is completed, the player is then taken to a present-day story line. The player's MMO experience begins here.

The Player vs. Environment (PvE) world is completely open and free-roam. Players can interact and fight with each other to complete quests and instances. Events take place in famous locations such as Gotham City and Metropolis.

The quests will be different depending on the player's alliance. Players can also participate in "missions" with each other. Teamwork is a must if you want to get through it with a minimal amount of deaths and problems.

Another big part of the game is

See *Universe*, page 16



Image courtesy of Sony Online Entertainment

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CAKE leave fans satisfied

CONCERT

**Showroom of
Compassion Tour**

PERFORMER: CAKE

LOCATION: Center Stage

DATE: Jan. 19, 2011

OUR TAKE: ★★★★★

By Tim Nowack
Contributing Writer



Photo by Tim Nowack / Student Publications

Alternative rock band CAKE concluded their three-night Atlanta concert series on Wednesday, Jan. 19 at Center Stage. Dubbed an "An Evening with CAKE," the event was one of seven stops on the band's Showroom of Compassion Tour, which promoted the release of their new album of the same name.

Known for their unique musical and lyrical styles, CAKE delighted fans with a three-hour performance that sampled from the band's extensive discography.

CAKE opened the night with a cover of Willie Nelson's "Sad Songs and Waltzes" off of their platinum selling, second studio album, *Fashion Nugget*. The band also revisited fan-favorite classics like "Opera Singer," "Frank Sinatra" and "Shadow Stabbing." Regular pleas from the crowd for their favorite songs were, surprisingly, often answered, and CAKE performed many deeper tracks, including "Jolene," "Haze of Love" and "Guitar." Unlike many bands, CAKE is known for not using predetermined set lists during shows and at many points during the concert, asked fans which songs they might want to hear.

Hailing from Sacramento, Calif. and founded and fronted by guitarist/vocalist John McCrea, CAKE has had strong

connections to the Atlanta area since their formation in 1991. McCrea admitted to the crowd that the fans from the area had a large impact on the early success of the band, as many of CAKE's early shows were performed in clubs across the city. Obviously Atlanta still loves CAKE, and all three shows sold out quickly.

The band has gone through many lineup changes over their near twenty-year existence, but has always prominently featured non-traditional elements. McCrea combines a mixture of spoken and sung lyrical styles to produce an extremely unique, ska and indie-like tonality. Many of CAKE's hits including trumpet riffs by the only other original member, Vince DiFiore. The band's musical distinctiveness carries over onto the stage, as well.

Half-way through the concert, McCrea reminded the crowd that the performance would include a twenty-minute intermission to allow fans "to discuss with the neighbors the songs they liked so far" and also featured a lengthy trivia contest in which the win-

ner received an apple tree that had been sitting, oddly, on stage the entire night.

After the intermission, CAKE performed "Federal Funding," "Bound Away" and "Sick of You," three songs off their new album. Released on Jan. 11, the album was CAKE's first release under its own label and immediately raced to the No. 1 position on the Billboard 200 in its first week.

Filled with many instances of crowd participation, energy levels remained high throughout the night.

A riotous call for an encore lasting several minutes returned the band to the stage to conclude with two of CAKE's most prolific singles, "Short Skirt, Long Jacket" and "The Distance."

As the diversely aged crowd slowly emptied the packed Center Stage, the venue buzzed with excitement and discussion on the band's seemingly flawless performance. CAKE's reputation as one of the greatest live bands today was definitely upheld, and their extensive Atlanta fan base was not left disappointed.

West

from page 13

ing off the cast's ability to rhythmically flow across the stage in a seemingly chaotic manner.

Aside from the dancing, not much else stood out about this musical. The set was effective in its simple design and capacity for quick scene shifts, often disappearing temporarily to make room for the more elaborate dance numbers.

The lighting was effective, but only inasmuch as it served its purpose without drawing attention to itself, subtly underscoring the emotions of each scene. One interesting aspect of this production of *West Side Story* that might confuse those familiar with older versions is the amount of Spanish.

The two central gangs, the Jets and the Sharks, are composed of Americans and Puerto Ricans. In the play, large portions of the dialogue between Puerto Rican characters are actually Spanish. This

Strings

from page 13

best friend.

Lake Bell also has a memorable performance as Adam's well-meaning but obnoxiously talkative colleague.

The film starts off strong, where it plays less like a predictable romance and more like a screwball comedy.

We see Adam and Emma share a painfully awkward conversation at summer camp together, followed by a second meeting in college where she asks him to accompany her to "some stupid thing," which turns out to be her father's funeral.

Things start to go downhill after a frantic but tame hook-up montage when Adam instantly starts to develop the romantic feelings he promised not to.

There are a few other bright spots, like Adam's mix-tape for menstruation, and Emma chew-

makes a few conversations hard to follow, but the emotions involved and the important plot points still come across. This change might detract from the experience for some, but it has the positive effect of drawing more attention to the cultural differences that drive the major conflict of the musical.

Aside from some weaknesses in vocal talent, the execution of dancing, lighting and orchestration is practically flawless. *West Side Story* has many wild and silly moments mixed amidst dark, moving ones. All of the dances are enjoyable to watch. By embracing the strengths of ensemble song and dance above all else, *West Side Story* ultimately provides an entertaining show.

West Side Story will continue playing at the Fox Theatre through the weekend. There are shows on Friday, Jan. 28 at 8 p.m., Saturday, Jan. 29 at 2 p.m. and 8 p.m. and Sunday, Jan. 30 at 1 p.m. and 6:30 p.m.

ing out a pair of lesbians who she thinks Adam has slept with.

There were a couple moments that suggested a keener sense of self-awareness than what the movie winds up settling for, and I cannot help but wonder how the things could have played out if writers Elizabeth Meriwether and Michael Samonek pushed themselves to write a comic ending that didn't resort to a fairy tale wrap-up.

It would be a much harder sell without the big red ribbon of romantic closure, but it also might have been something more memorable and intelligent.

Then again, a conventional romantic comedy with Kutcher and Portman could have ended up a lot worse, too.

If you're in the mood for something in between *There's Something About Mary* and *500 Days of Summer*, give *No Strings Attached* a try.

sliver

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Dungeon Standard Time -- it's a great time

Y'all talkin' 'bout racin'?

aha! so all the stinger buses have been taking part in a mud-rally over the break.

row row row your boat, gently down the chattahoochee... who knew?

Seriously Georgia Tech? You're installing an elevator to take lazy students 1 story down to the completely pointless North Ave Dining Hall? Way to go

Running in front of cars is a bad idea. I didn't think I'd have to say that.

gtn: how do I get to channel 47.1? There is no punctuation on my remote.

To that one girl in that one class at that one particular time: You're cute!

I expect a full review of Incursion once the Sansha invade. Go Minmatar!

Under the Couch music sucks. It just sounds bad, always.

Dear Jordan, yes I am avoiding you. Yes I don't like you.

leggings and tights are pants. that's why they're AWESOME

Dear Bathrobe Guy: We like it when people wear clothes to the place where we eat

Time definitely flows slower in most of my lectures

I have a dream ... that one day stories in the Technique shall not be judged by the color of their print, but by the content of their articles

The squirrels are definitely planning something ... I feel it in the water, I feel it in the earth, I smell it in the air

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Durin the exaaaaaam I rock my chair back and forth ... i rock my chair back and forth ...

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Groban departs from previous work

MUSIC

Josh Groban
Illuminations

LABEL: 143/Reprise Records

GENRE: Vocal, Classical

TRACK PICKS: "Você Existed Em Mim" "Straight to You" and "Bells of New York City"

OUR TAKE: ★★★★★☆

By Chris Ernst
Senior Staff Writer

Josh Groban's *Illuminations* is his fifth studio classical crossover album and also his most personal and progressive yet. While die-hard fans may be upset by the change in direction of Groban's style, many fans and even newcomers can find his new, different style more accessible. While there are some shortcomings of the album, overall it is an interesting left turn from Groban's previous commonplace musical direction.

This new style is heavily influenced by more popular music from the last century or so instead of the more classical traditions of the albums past. While Groban has been known to collaborate with modern acts like Deep Forest and Imogen Heap, this album takes that a leap further by performing mostly modern song in English.

The songs here have a pop-like structure and simplicity in melo-

dy and harmonization. Previously Groban included mostly tracks in various languages inspired by, or directly covering works of classical music.

The style of *Illuminations* embraces the tradition of the English songs from his previous albums and develops it further to make English-language compositions that have roots in classical tradition but have a modern sensibility easily understood by most listeners.

This new style is promising in its premise but does not quite become it to the most it can be. Groban sounds natural enough while singing "easier" music with his operatic, trained voice. However, the compositions sound only half-baked.

The melodies meander too much and do not have strong hooks, a staple of pop music. The result is pleasant music that does not get stuck in your head. With a little work and some more experimentation Groban can surely master this new challenge.

With a classically trained voice at his disposal, the possibilities are tantalizing. He could take a leaf out of Alanis Morissette's book and do ironic deliveries of pop songs. Think T-Pain lyrics with Groban's delivery.

Groban has a writing credit on 11 of the 13 tracks of *Illuminations*, usually sharing credit with Dan Wilson of Semisonic. This is by far the most personal album



Image courtesy of 143/Reprise Records

Groban has released and it shows. The themes are much more accessible and expected of a savvy, modern 20-something. There are no societal dissertations or shocking opinions as the material is tame and soothing. Love, gained and lost, makes up the bulk of the themes.

Groban's voice is the No. 1 reason to buy this album. His voice is warm and soothing like hot chocolate in a blizzard. In a world of Miley Cyrus and Drake, Groban stands head, shoulders and stratospheres above other popular "talents."

He is controlled and practiced when so much music today is computerized and processed. While he has not quite nailed down the pop, bombastic tone he aims for, Groban departs well from a pure

operatic tone.

The style of *Illuminations* is definitely a departure from Groban's previous work, but the shift is a step in an interesting direction. However, it is only a step and hopefully will be developed more into something intriguing for more than just fans.

This departure allows Groban more freedom of expression as he co-wrote nearly all the songs on the album. Fans of Groban's voice will not be disappointed as he is still as accomplished as ever and hearing his instrument do something different like this entertains even casual fans.

Illuminations sees Groban grow as an artist, and with a little more experience and work he can truly transition into the pop arena as a talented, capable artist, a rarity.

Universe from page 14

the Player vs. Player (PvP) aspect. Players can participate in PvP battles against each other in four versus four or eight versus eight configurations. The queue system is very easy to use and allows the player to continue on with PvE tasks while waiting to join a PvP game. Once the PvP game is over, the player is returned to their last location in a seamless transition back to what you were doing.

There are a couple problems with the game, which are pretty minor, but worth mentioning. The first is the social aspect of the game needs to be worked on. The chat system is a little light in features and the social panel is a bit cluttered. However, once one gets used to the layout, it becomes easier to navigate. It's a bit counter-intuitive for those new to MMOs.

Another problem is one found commonly in classic MMORPGs. The payment model Sony chose for *DC* is monthly-subscription based, which costs about 15 dollars per month. While many other competitors are adopting the free-to-play model with an in-game cash shop, *DC* has stuck with a more traditional style. While not deal-breaking, a free-to-play model would be a big plus for the game in the future.

DC Universe is a very well polished MMORPG for immersing the player in the world of the superheroes. Both veterans of MMORPGs as well as new comers will enjoy the experience of being able to become what they've always dreamed of.



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THEME CROSSWORD: DOWN ON THE FARM

By Robert Zimmerman
United Features Syndicate

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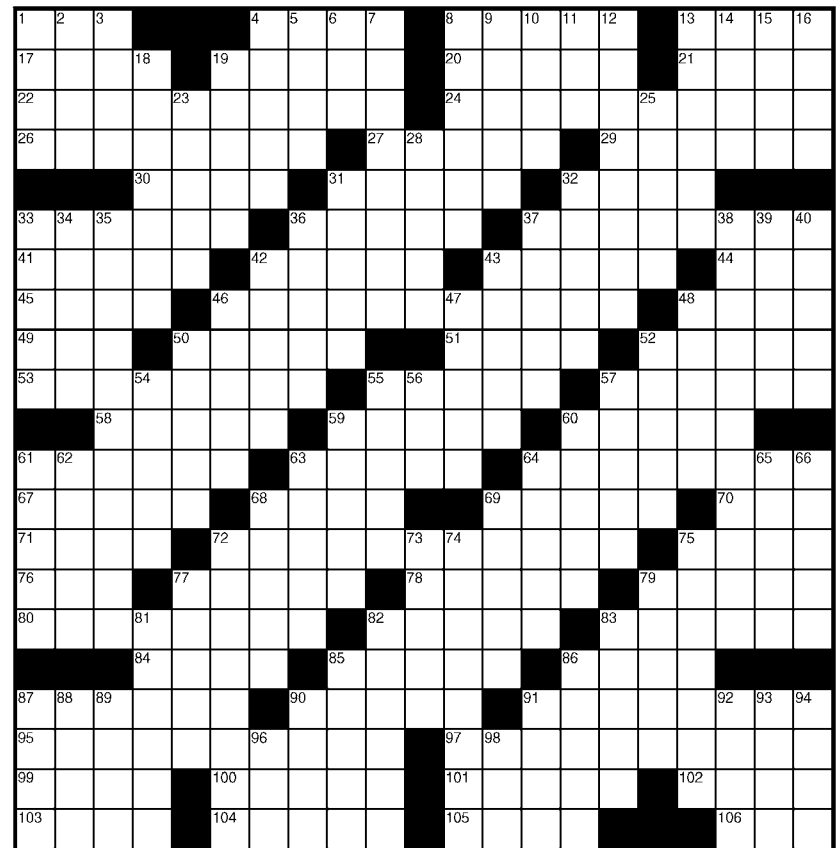
1. Compass pt.
4. Cachet
8. Commenced legal action
13. Grating sound
17. "Whatever -- Wants"
19. Old Italian coins
20. Ridge
21. Lover of Narcissus
22. Wall Street phenomenon: 2 wds.
24. Locomotive part
26. Literary excerpts
27. Antelope
29. Most thirsty
30. Lugs
31. Lattices
32. Shear
33. Be overwhelmed with wonder
36. Abusive e-mail
37. Safeguards
41. States positively
42. -- couture

DOWN

1. Island near Corsica
2. Common or proper item
3. Fitzgerald
4. Varieties
5. BPOE members
6. Iced drink
7. Educated ones
8. Mere appearance
9. Shackles
10. Obscene
11. And blah, blah, blah ...
12. Standstill
13. Formula

43. Wonderland heroine
44. Blockbuster
45. Tanaka's predecessor
46. Easy mark: 2 wds.
48. Nick at --
49. Japanese statesman
50. Customs
51. Kind of garden
52. Secret store
53. Bowdlerized
55. Set in motion
57. Necklace
58. Moved carefully
59. "You Only Live --"
60. Helmet adornment
61. Hawthorne's Prynne
63. Neutral shade
64. Felonious
67. Importunes
68. Water bird
69. Zoo animal
70. Hoover's agcy.
71. Term in grammar
72. Noted essayist: 2 wds.

75. Timber tree
76. Princess in comic opera
77. Gibb or Goldwater
78. Rope with a noose
79. Greek isle
80. Dissuaded
82. Quiets down
83. Pressed
84. Kind of book
85. Uses a soft pedal
86. Nail
87. "The -- Family"
90. Baseball great Hank --
91. Like pastoral scenes
95. Horrification: 2 wds.
97. Sioux chief: 2 wds.
99. Monster
100. Poplar
101. Gutter location
102. Unmixed, as whiskey
103. Planet wheel
104. Ate
105. Spool
106. Salamander



55. Guzzle
56. Block of metal
57. Scale
59. Weepy
60. -- facie
61. Like equatorial days
62. Undermine
63. Vandyke, e.g.
64. Confabulates
65. Slacken
66. Had a taste for
68. Card in a hand

69. Quahogs
72. Town in New Mexico
73. Orate anagram
74. Muffler's cousin
75. Use to one's benefit: 2 wds.
77. Fog
79. Private teacher
81. Pencil attachment
82. Afflicted
83. Slaty colors

85. Acer
86. Chisel edge
87. Psyched up
88. Venetian magistrate
89. Dumb --, old slang
90. You said it!
91. Macadamize
92. Release
93. Service branch: abbr.
94. Latvian
96. -- supra
98. "Norma --"

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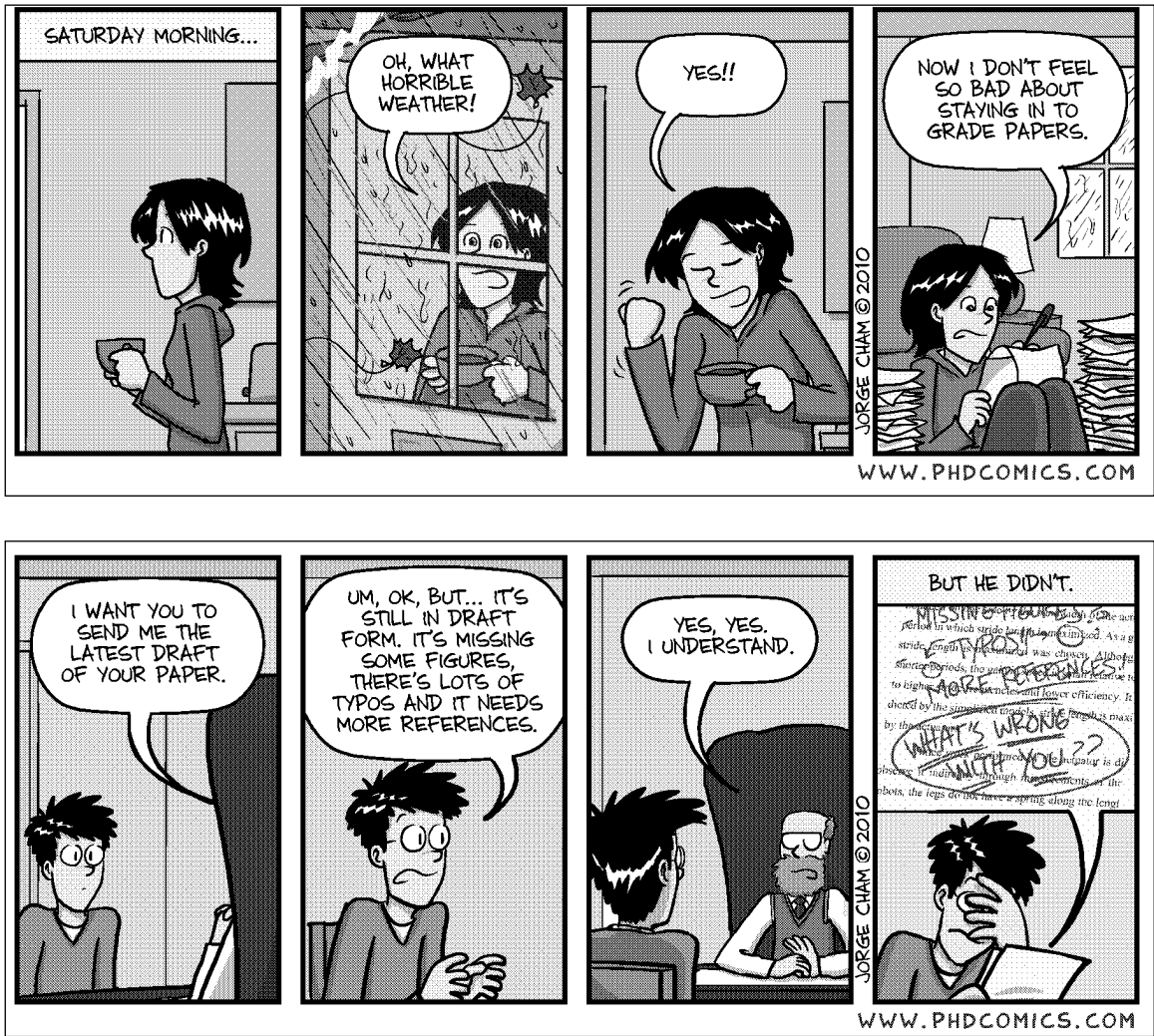
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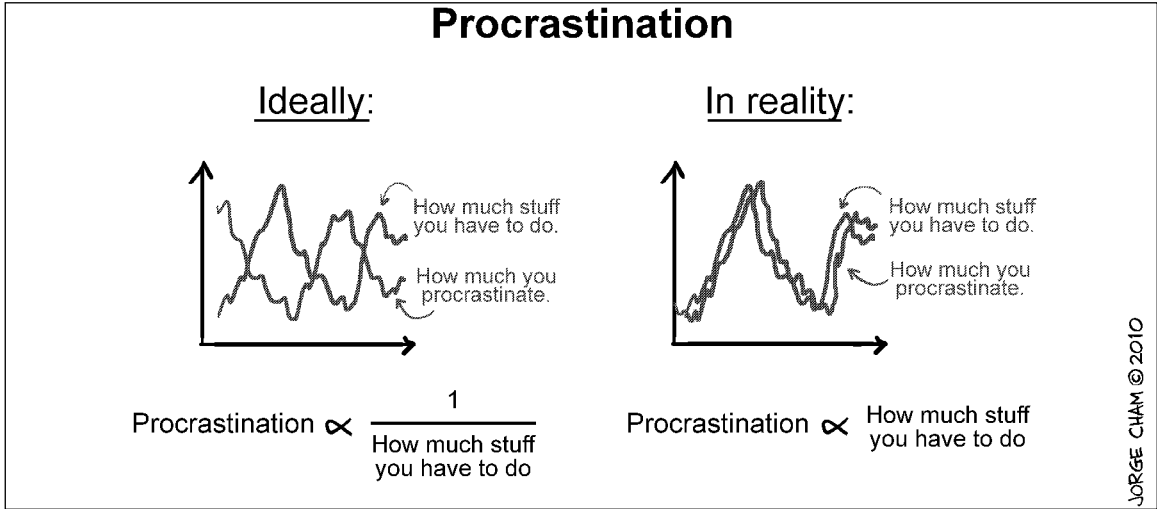
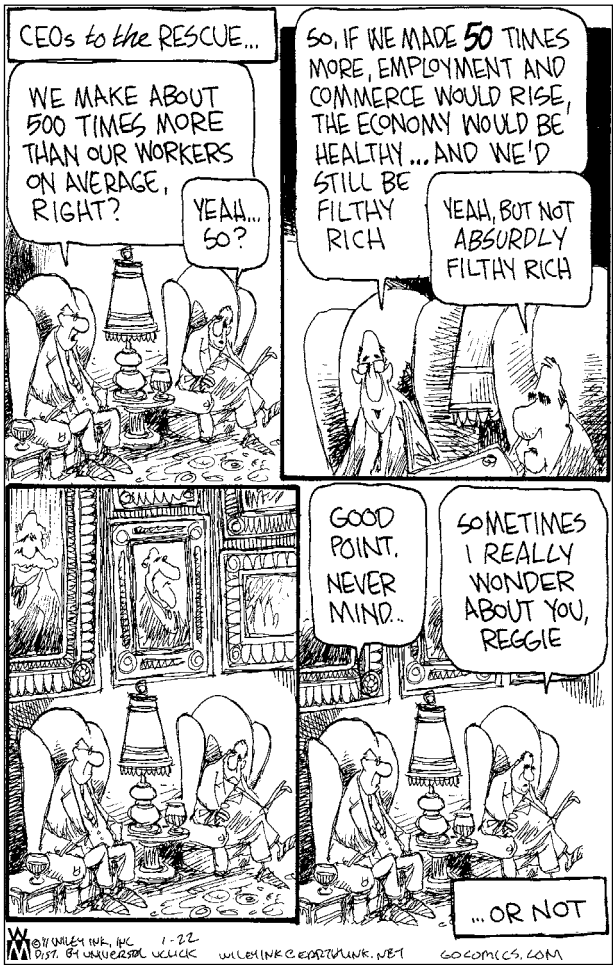


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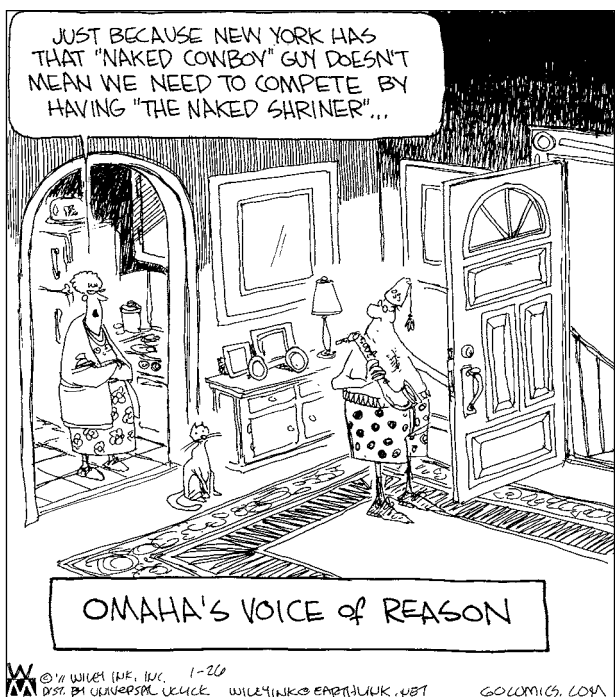
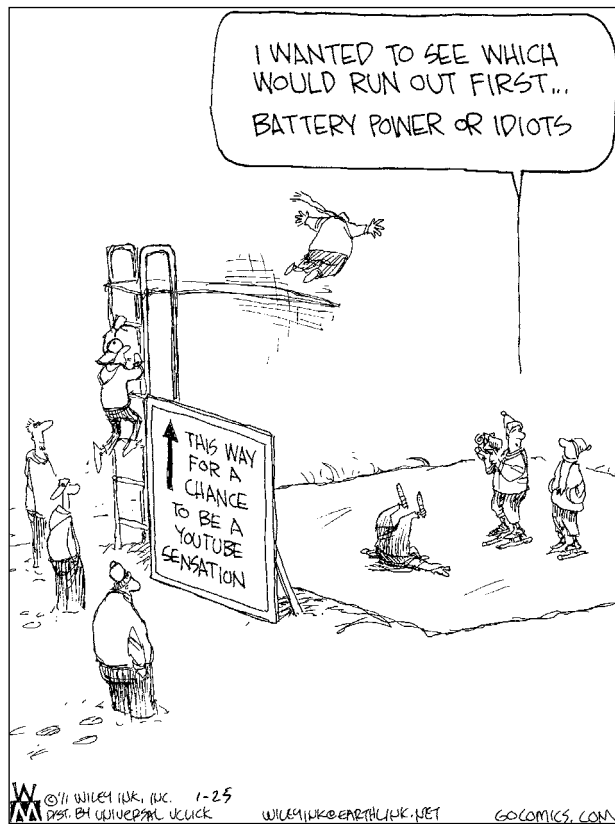


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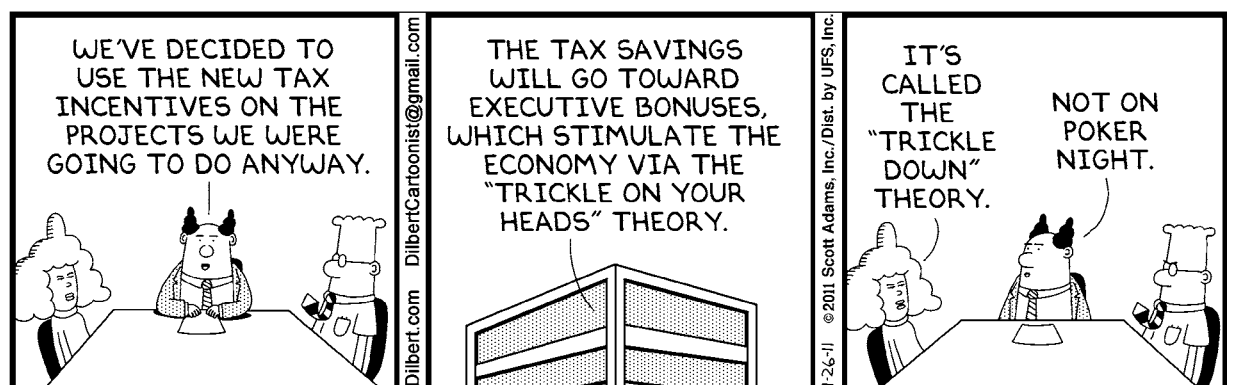
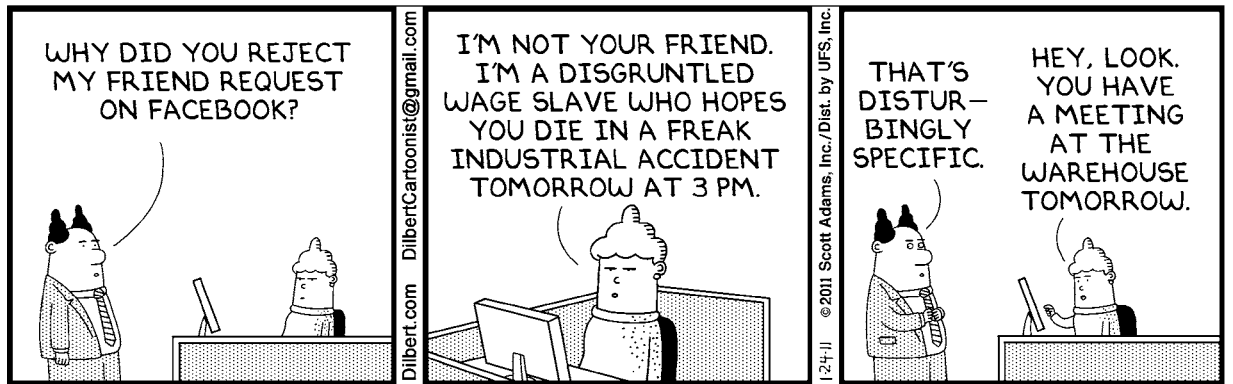
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Hockey bests in-state opponents, falls to So. Car.

By Nishant Prasad
Online Sports Editor

For the second time in the past three years, the Tech hockey team returned from its annual trip to Savannah as the champion of the Savannah Hockey Classic. The Jackets held off Florida State 4-2 on Friday, Jan. 14 and took down Georgia 4-1 the following day to claim the Thrasher Cup. Tech followed up by splitting a pair of games over the past weekend, and overall the team improved to 15-3 on the season.

Tech's roster had improved considerably in both talent and depth from the previous season, but the Jackets did not expect to cruise to victory—largely because every other team at the Classic had improved as well.

"Of the four teams that were there, three were ranked: Florida [No. 13], Florida State [No. 14] and Georgia Tech [No. 7]. And Georgia had new players, so it was a situation where all four teams were very equal...Everybody had something to lose," said Assistant Coach Paul Gattung.

The Jan. 14 match against FSU was the second meeting between the teams this season. In the first contest in late Oct., the Jackets weathered a late FSU comeback and got the game-winning goal with less than two minutes left for a 6-5 victory. This game was similarly close throughout.

Tech drew first blood fairly quickly, as junior winger and co-captain Ryan Fritz scored on an assist from junior Matt Zaske just 3:07 into the game. It was the only goal of the opening period; the next score came courtesy of FSU forward Patrick Nolan, who tied the game up midway through the second period.

But both teams were relatively



Photo by John Nakano / Student Publications

Matthew Zaske takes a shot at the goal in Friday's game versus South Carolina. Zaske scored the first goal of the game versus UGA.

quiet offensively through the first 40 minutes. The Seminoles only registered 17 shots and the Jackets had just 13 over that stretch, resulting in the relatively low scoring output.

The offense picked up in the third period for both teams. With 15:29 left in the game, junior center and assistant captain Zack Berry gave the Jackets a 2-1 lead with a goal off an assist from sophomore defenseman Alan Dagesse. However, the Jackets were unable to add any insurance before FSU's Trip Fessenden took advantage of a power play and scored the equalizer with 7:18 left.

The deciding goal came courtesy of Tech freshman winger Michael McKinney, who picked up the rebound from a Berry shot and scored past massive FSU goalie Blake Wladyka with 6:03 remaining in the game.

Tech was able to control the puck for much of the period; after being out-shot in each of the first two periods, the Jackets had 18 shots to just nine for FSU over the final period, and Tech goalie C.J.

Layer stopped everything else that went his way for the remainder of the period. After FSU pulled its goalie for an extra skater in the final minute, Tech senior winger Jeremy Spafard iced the game with an empty-net goal.

Though the Jackets had already notched a victory over UGA earlier in the season, the Savannah win marked the next step in avenging the previous year's season sweep by the Bulldogs.

"We knew we were the best team there, but we [also] knew we still had to go out and show it," said senior center and team president Marcus Lostracco. "The seniors that were on board for the last win in Savannah have [also] been through losing Savannah and losing in overtime to Georgia [last season]. This was our last chance to go in there and make it ours...We knew we could do it."

As far as the roster was concerned, the Jackets got a major boost for the rivalry game. Senior goalie Maxx Lucas, who suffered a knee injury in Tech's loss to Central Florida in November, re-

turned to make the start against the Bulldogs.

"That [UGA] game was Maxx's game all the way, as the senior goalie," Gattung said.

As the game began, Tech quickly gave Lucas a cushion. Less than three minutes into the contest, Zaske rifled a shot into the net for an unassisted goal, and the Jackets led 1-0 early. Tech added a second goal near the end of the period when senior center Michael Midgette scored his first goal of the Classic with 2:30 left until the intermission; McKinney and sophomore defenseman Bobby Bishop had assists on the play.

UGA out-shot Tech in the second period, but Lucas was strong in goal and neither team scored, so Tech carried its 2-0 lead into the final period.

After an early scoreless stretch, the Bulldogs cut into the Jackets' lead. During a 4-on-4 stretch, UGA forward Cam Navis scored, making the score 2-1 in favor of Tech with 6:16 left. However, it was the only goal the Bulldogs would muster in the game.

Berry gave Tech some insurance with a goal just over a minute later, with Fritz and Zaske picking up assists. The Jackets maintained the 3-1 lead into the final minutes, and ultimately UGA pulled its goalie. The move backfired; Tech senior defenseman Dan Podratsky picked up the puck and passed to Lostracco, who scored an empty-net goal to seal the victory. Tech won the game 4-1 and took home its sixth Thrasher Cup.

The Greg Stathis Trophy, awarded to the tournament MVP and named in honor of the longtime Tech coach, was awarded to Lucas for his performance against UGA.

In a pair of home games the following weekend, Tech stum-

bled against South Carolina but followed up with a double-digit win over Emory.

The USC game saw the teams try different approaches on the attack; the Jackets attempted most of their shots while directly in line with the goal, while the USC players tended to take shots from various angles with respect to the net. With Layer playing well in goal early on, Tech jumped out to a 4-2 lead midway through the second period, with forward Derek von Zweck scoring two of the four goals for the Jackets, but USC battled back; the Gamecocks got two goals to close out the second period and added the go-ahead score midway through the third period for a 5-4 game victory.

Tech rebounded with an easy victory the following afternoon over Emory. While Emory had put up a fight in the season opener, with Tech winning 3-2, the Eagles had just nine skaters for this weekend's game and had also played the previous night. Tech jumped on the exhausted Emory squad early, scoring six goals in the first period en route to a 15-1 drubbing.

Lucas was in goal for the Emory game but saw little action. The Jackets were dominant from start to finish, recording 107 shots to just nine for Emory. For Tech, 10 players scored goals—with Dagesse leading the way with a hat trick—and nine players recorded assists, including Lucas.

At 15-3, the Jackets will head to Richmond, Va. for a key weekend tournament.

All three of their games this weekend will be against ranked opponents: the Jackets, who are No. 7 in the ACHA Division III South region, will face No. 12 Richmond, No. 5 Loyola and No. 10 UNC-Wilmington.



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Jackets

from page 24

The Jackets were able to achieve a 19-point lead with two and a half minutes left but finished the game with only a 13-point difference.

Senior guard Alex Montgomery truly shined on Sunday. Montgomery scored 15 points for the team and only committed one foul.

You could hear the support of the crowd when Montgomery shot two free throws late in the second half as they chanted her name. This was an impressive showing after Montgomery was only able to make two points in the game versus Duke, both coming off free throws.

Senior guard Deja Foster performed well on the court as well. Foster recorded seven of the Jacket's 18 offensive rebounds.

Juniors guards Chelsea Regins and Mo Bennet both showed great resilience from the bench. Regins made nine points and four rebounds while Bennet tied her season high of 10 points. This was great improvement from the combined three points the two made against Duke.

Junior point guard Methra Walthour made a team-best 16 points on Sunday. Freshman guard Frida Fogdemark and freshman forward Tyaunna Marshall tied for the team best of six points against Duke.

Much of the team's success against Boston College may be credited towards the distribution of playing time amongst players. Six athletes saw at least 20 minutes of play, and nine-of-10 Jackets saw playing time.

The Jackets come off the weekend 17-5 overall 5-1 in league play. Tech will head to Blacksburg, Va. on Thursday to face the Virginia Tech Hokies before traveling to Miami on Sunday to take on the Hurricanes.



Photo by Victor Lee / Student Publications

Iman Shumpert defends against Virginia Tech's most prouctive player, Malcolm Delaney. Shumpert held Delaney to eight points.

Hokies

from page 24

The Hokies' defense played better for the remainder of the half as the Jackets struggled to figure out the defense's weak spots. While the Jackets were trying to figure it out, the Hokies went on a 15-2 run.

The Jackets scored their next six points on hustle plays before Virginia Tech could get their defense set.

Finally, the Jackets found a hole in the Hokies' zone when Oliver cut towards the basket, caught the ball at the free-throw line and drained a mid-range jump shot.

Oliver finished the game with 28 points.

The Jackets would go back to this play throughout the half and were able to keep with the Hokies, only down three going into halftime.

The second half was an entirely different story, as the Jackets quickly tied the game within the first two minutes of the half.

The teams would trade baskets for the next five minutes of the gamem and they were tied at 47 at the 10:08 mark.

Oliver scored the Jackets' next ten points as they marched out to a two-point lead.

"There have been some mechanical things that were wrong with my shot, and a lot of it is mental. You can't get down on yourself. You say to yourself keep taking good shots, but you have to make sure that, as a shooter, you are always thinking that the next shot is going in. I just cleared my mind, went out there and went back to fundamentals tonight," Oliver said.

Shumpert made a fast-break layup and Oliver hit another three to give the Jackets a seven-point lead.

Shumpert continued to lead the Jackets down the stretch and scored eight of the team's last 10 points as the Jackets won by 12.

Shumpert became only the fourth Georgia Tech player, and the first since 1989, to record a

triple-double with his 22 points, 12 rebounds and 11 assists. He was the first Jacket to do that in an ACC game, and he was only three steals shy of a quadruple-double.

"I didn't know I was close to [a triple-double] but I thought I had a lot of rebounds. In the middle of the game, Coach LaBarrie came over to me and said that a triple-double isn't as good if we don't win, and that was when I knew that I had one," Shumpert said.

Perhaps more impressive is Shumpert's play on defense as he held the Hokies' best player, Malcolm Delaney, to only eight points.

"I think we played [Delaney] tough, and when I needed help I got it. We played him hard at the basket and we went up there and contested every shot," Shumpert said.

Tech next plays at home versus Maryland on Jan. 30.

PLAY OF THE WEEK

By Alex Mitchell
Sports Editor

In its recent game against Virginia Tech, the Georgia Tech men's basketball team had a tough time figuring out the Hokies' 2-3 zone with man-to-man tendencies. The Hokies started the game on a 17-10 run as the Jackets struggled to find a hole in the zone.

Finally, the Jackets found away a way to break the zone to get some quality points.

The plan was for the Jackets to overload one side of the court with a big man and two guards. Usually, senior guard Mo Miller would make a pass to junior guard Iman Shumpert. Then, freshman center Daniel Miller would set a pick for Shumpert to take the attention off of the other side of the court.

With the three Georgia Tech players on one side of the court, the Hokies' defense would shift to account for the extra bodies. The screen also forced the Hokie defenders to expect that the Jackets were running a play to that side. This made the entire defense watch the ball.

Meanwhile on the other side of the court, sophomore forward Brian Oliver would take advantage of the defenders helping on the other side of the court by cutting to space in between the zone. This space happened to be at the top of the paint, just out of the reach of Hokie center Jeff Allen. Oliver received a pass from Shumpert and drained a short yet contested shot over Allen.

The play helped Oliver find his stroke early en route to his team-high 28 and points and also allowed Shumpert to rack up 11 assists.



Photo by Austin Foote / Student Publications

Daniel Miller throws down an impressive two-handed slam.

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Tennis

from page 24

Turvy deep behind the baseline, eventually leading to a lot of quick finishes.

Ngo did not see the same results as her doubles teammate, however, losing to Maria Mosolova 6-3, 6-0. The first set started off with Ngo allowing two break points. Looking at a 0-4 deficit, she fought back earning two breaks before losing 6-3. She would not win a single game for the rest of the match, losing 6-3, 6-0.

Lilley struggled early in her match dropping the first set quickly, 6-1. However, after making some adjustments, she came back, winning the second set 6-1, and winning a close third set 6-4.

"It was nice to see Caroline steady her nerves and regain her composure after losing early and be able to bound back. She did a good job of looking inward in the second and third set to figure things out," Shelton said.

Blau, lost in a close match 6-4, 7-6 (7-2), giving Northwestern their second and last point of the day. Her opponent Niu won the tiebreaker quickly, but that was not representative of the close match.

Krupina sealed the victory for the Jackets, with a strong 6-2, 6-1 win over her opponent Mushrefova.

To finish the day, Kilborn came back after losing the first set to win another close match 6-7 (5-7), 7-6 (7-4), 10-3.

Tech will look to build off this success when the Jackets host the ITA Kick-Off Weekend on Jan. 29. The Jackets will start the tournament against the Iowa Hawkeyes.

Men's tennis beats So. Car.

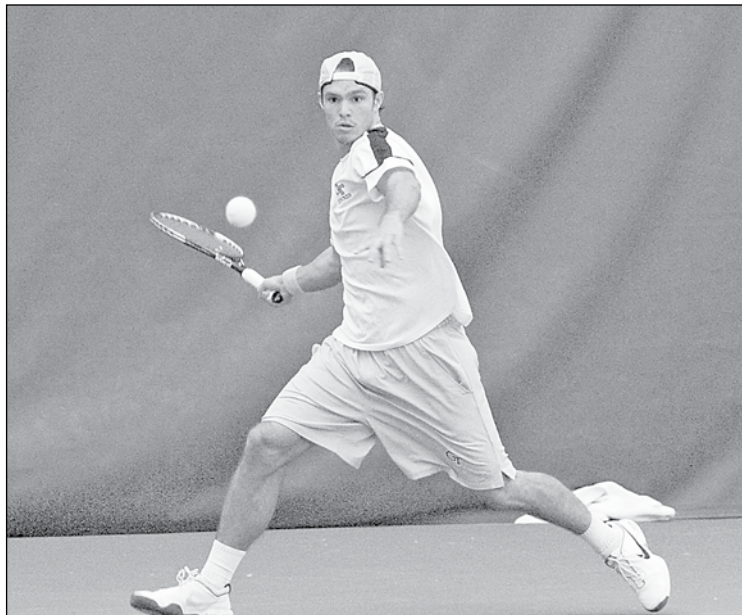


Photo by John Nakano / Student Publications

Guillermo Gomez hits a forehand in a recent home match. Gomez defeated his opponent from South Carolina by a score of 6-4, 6-0.

By Kyle Gifford
Staff Writer

The No. 23 Tech men's tennis team faced off against the South Carolina Gamecocks on Saturday, Jan. 23 in Columbia, S.C.

Tech opened up its 2011 season the previous week against University of South Carolina Upstate, winning 7-0 in dominating fashion. The Jackets also cruised past their SEC neighbor and continued their perfect record with a 6-1 victory.

The opening doubles matches went strongly in favor of Tech, with one of the nation's elite doubles team made up of junior Kevin King and sophomore Juan

Spir winning the first match easily, 8-5. The Jackets also took the second doubles match, with a strong showing by Seniors Dean O'Brien and Guillermo Gomez, winning 8-3. The final doubles match went the Jackets way as well, with Seniors Eliot Potvin and Ryan Smith claiming a final 8-3 win.

Tech showed the same high caliber performance in the second portion of the matchup between the two schools, the singles matches. Gomez, a top-15 player nationally, opened up with a convincing win over South Carolina's Ivan Machado, taking the match 6-4, 6-0.

No. 48 ranked Spir defeated

the Gamecock's Nick Jones, 7-5 6-4. Finally, King beat South Carolina's Johannes Plusfort in straight sets, winning 6-4, 6-3. The Jackets only loss came in the fifth and final match, where Tech sophomore Magin Ortega fell to the Gamecock's Chip Cox after taking the first set, only to lose 6-7, 6-0, 6-2.

Gomez played a stellar tournament and helped clinch the match for the Jackets with his singles match win. He extended his record to 13-4 on the season, and recorded his 98th career victory.

Gomez and the rest of the team look to add to their win streak this season when they travel to the Dan Magill Tennis Complex in Athens, Ga. to face rival Georgia, divisional rival North Carolina and Oklahoma State in the ITA National Kickoff weekend.

Tech has had mixed results in Athens in the past. Gomez won the Southern Intercollegiate Championship over Georgia's Javier Garrapiz in Athens this past Sept.

But the Jackets struggled in the Bulldog Scramble last Nov., posting just an 11-21 record in singles and doubles over the span of the three-day tournament.

The tournament is scheduled to start Jan. 29 at 10 a.m.

"I feel we competed enthusiastically all day. South Carolina has always been tough at their place so its good to get a solid win. We are going to get a good week of practice getting ready for UNC at the National Indoors next Saturday," said Head Coach Kenny Thorne to ramblinwreck.com.

SPORTS
shortsKrupina gets
conference honor

Senior women's tennis player Sasha Krupina was named the ACC Women's Tennis Player of the Week by the conference.

Krupina earned the honor thanks to her stellar play against Northwestern on Jan. 23. Krupina helped win two points for the Jackets in their 5-2 victory.

The senior was paired with junior Caroline Lilley in the doubles portion of the meet, and the team defeated their Northwestern foes 8-4. Krupina helped the Jackets win the pivotal doubles point to start off the meet.

Krupina, playing from the fifth spot, won another point for the Jackets when she defeated her foe 6-2, 6-1.

Softball
unanimous No. 1

On Jan. 26, the ACC's head softball coaches voted Tech as the favorite to win their third consecutive league title. Tech received seven out of eight first place votes, with the other going to North Carolina. However, Tech was the unanimous choice because a coach could not vote for her own team.

The Jackets will have to find a way to replace All-American Jen Yee, but they do return every other returning starter from last year's team that went 52-11.

sliver

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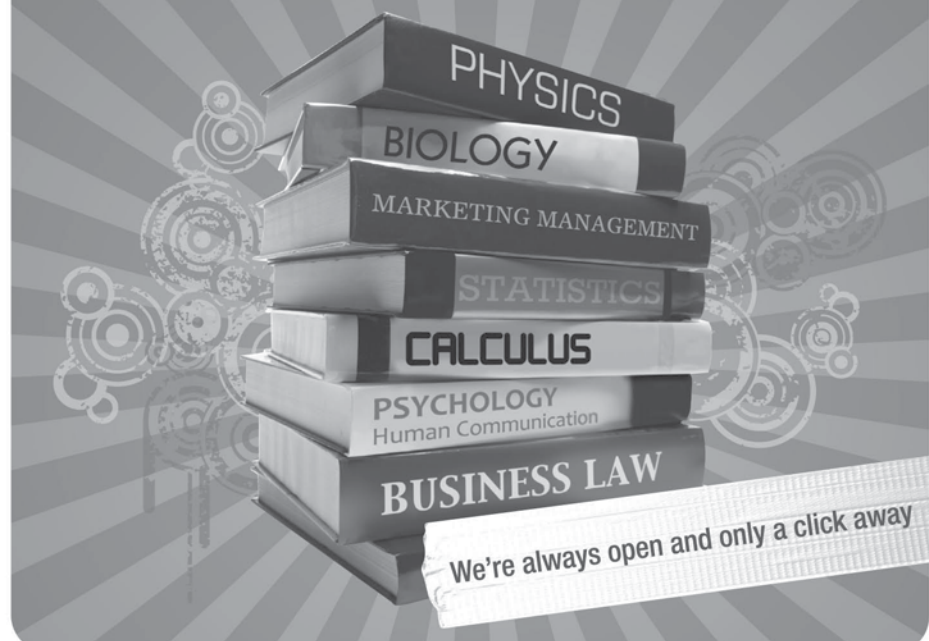
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Women's hoops loses ACC game

By Wayne Bishop
Contributing Writer

Coming into the weekend with a 13-game winning streak, Tech's women's basketball team was looking to improve their 4-0 ACC record for the season. The Jackets' game at Duke on Friday Jan. 21 ended with a loss, ending the streak, but they were able to pick up a win on Sunday Jan. 23 against Boston College with the home-court advantage.

At Duke, Tech was unable to overcome their lowest shooting percentage of the year of 28.6 percent. Being outrebounded by the Blue Devils 45-32 certainly did not help the final outcome of 69-32.

Tech found its only lead against Duke a few minutes into the game when the team managed to go up 6-3. However, Duke took the lead at 7-6 10 minutes in and remained in possession of the lead for the rest of the game.

Sunday proved a much better day for the Jackets. Tech beat Boston College 67-54 extending their home record to 12-1. The team's ability to bounce back after a tough game at Duke impressed Head Coach Ma-Chelle Joseph.

"It literally couldn't have been any worse than it was [at Duke], so let's just throw it away and start over, and come out after Boston College. I thought we did that. I thought we came out aggressive and attacking," Joseph said.

The two teams were neck-and-neck at the start of the game, being tied at 15 only 10 minutes into the game. Tech slowly began to pull ahead after this to end the half with a 29-22.

Aggressive play continued through the second half. Steals were a key aspect of Tech's success, keeping the ball in possession of the Jackets' and points off Boston College's scoreboard.

The Jackets totaled 15 steals for the game as they forced Boston College into 24 turnovers.

The second half showed great improvement in shooting percentages. The Jackets went from 31.4 percent to 57.1 percent between the two halves. Both halves of the Boston College game were improvements over the 28.6 shooting percentage at Duke.

See **Jackets**, page 22

Men's B-ball splits against Va. foes



Photo by Will Folsom / Student Publications

Iman Shumpert goes up for a dunk against Virginia Tech. Shumpert recorded the fourth triple-double in Tech's history.

By Alex Mitchell
Sports Editor

On Jan. 22, the Georgia Tech men's basketball team traveled to Va. riding a two-game winning streak. The Virginia Cavaliers snapped it and handed Tech its third consecutive ACC road loss of the season, 72-64. Tech traveled home after the game and defeated a highly touted Virginia Tech team 72-57 to improve to 3-3 in the ACC.

The Jackets started slowly

in the game against Virginia. The Cavaliers jumped out to an 11-4 lead thanks to three three-pointers.

The Jackets had trouble defending the perimeter throughout the season, and this game was no different as Virginia shot 10-of-15 from beyond the arc.

Back-to-back jumpers from junior guard Iman Shumpert and sophomore forward Brian Oliver cut Virginia's lead to three, but Virginia responded with another three-pointer to

put the score at 17-11.

The teams continued to trade baskets for the remainder of the half, with Virginia never not its lead until the four-minute mark. Senior guard Mo Miller made a layup to trim Virginia's lead to five at 31-26, but Tech would not make another field goal for the remainder of the half.

Meanwhile, Virginia forced four straight turnovers, made four layups and drained one three pointer down the stretch to go into halftime with a comfortable lead at 43-29.

Virginia finished the half having made seven-out-of-eight three pointers.

"You can put teams in a gym by themselves that wide open, and they are not going to make seven out of eight. It just shows you that you have to be prepared to stop people as opposed to hoping that they miss," said Head Coach Paul Hewitt.

Virginia started the second half with a 5-2 run that included yet another three and yet another layup as it was clear that Tech's defense was unable to stop anything that Virginia wanted to do on offense.

One bright spot for the Jackets came at the 14:44 mark when freshman center Daniel Miller threw down a powerful two-handed dunk.

The center finished the game with a career-high 12 points.

"We feel as though [Miller] can be at that eight to 10 point level each night, but we can't do it at the risk of [the guards] not having the ball in their hands a lot," Hewitt said.

Miller's bright spot was short-lived as that would be the Jackets last field goal for almost five minutes before he made another jumper to cut Virginia's lead to 16.

Georgia Tech could not will its way back into the game, and did not come within 15 points of Virginia until garbage time when both teams had some backup players in the game.

"There were a couple of things that I saw in the game that we talked about, but didn't practice enough. So, I told the guys after the game that I did not have you prepared as well as you should have been, especially in those three-point shots," Hewitt said.

The Jackets looked well prepared for their next game against the Hokies, coming out of the locker room and quickly jumping out to a 5-0 lead that was led by a Miller three.

Virginia Tech used a 2-3 zone from the beginning of the game to force the Jackets to shoot outside jump shots. The plan backfired at the beginning of the game as sophomore forward Glen Rice Jr. hit another three to give the Jackets an 8-2 lead.

See **Hokies**, page 22



Photo by Austin Foote / Student Publications

Brian Oliver hits an easy layup. Oliver had 28 points.

Women's tennis drops No. 9 Northwestern, 5-2

By Alex Sohani
Assistant Sports Editor

The No. 16 ranked Tech women's tennis returned home after a trip to Ann Arbor, Mich. in the Michigan Invitational to face Northwestern on Sunday, Jan. 23. The Jackets started off strong early and after some close matches, earned a 5-2 victory over the Wildcats.

The Jackets had a close match in two of their three doubles matches before winning four of their six singles matches to secure the win.

In the first doubles match, senior Sasha Krupina and junior Caroline Lilley got the team off to a fast start, forcing their opponents Linda Abu Mushrefova and Nida Hamilton to make difficult shots for the entirety of the match.

Both Krupina and Lil-

ley were impressive with their forehand finishes. A memorable play from one rally saw the team Northwestern hit a drop shot that was barely tipped back over the net by Lilley in order to save the rally. Eventually, the save caused an unforced error by Northwestern, in a key play to secure the match victory.

Junior Viet Ha Ngo and junior Jillian O'Neill played in a close match on court two of the doubles competition. The match was highlighted by long rallies, as both teams were hitting difficult shots all around the court. Eventually, after big plays from both players, they pulled away on a break point, winning 8-5.

On the third court, junior Lynn Blau and sophomore Elizabeth Kilborn lost their match, 8-6. With the score at 6-7 after both teams broke

each other, Tech was in position to tie the match when Northwestern earned a break point on a double fault to secure match point.

"There were a couple of big, keys points to the day, but being able to come out and establish a presence in the doubles got us believing that we could come through and be successful today. All three doubles matches played well and we put ourselves in position to win each of them," said Head Coach Bryan Shelton.

The team fared equally well in the singles matches, with victories in four matches by Lilley, O'Neill, Krupina and Kilborn.

O'Neill was dominant, ending her match quickly, winning 6-2, 6-1. She continued to force her opponent Kate



Photo by John Nakano / Student Publications

Sasha Krupina extends for a forehand against Northwestern. Krupina won two close matches to earn ACC Women's Tennis Player of the Week honors.

See **Tennis**, page 23