



TECHNICIAN

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JUNE
15
2005

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Raleigh, North Carolina

FOOTBALL

Bullet grazes athlete

Incident beside University Tower believed to be part of string of robberies in Wake County Friday night.

Joe Overby
Senior Staff Writer

At 6-feet-7-inches and 250 pounds, not much stands in Quentin Brown's way on the football field.

But late Friday night, the incoming freshman defensive lineman found himself in a dangerous situation just outside of his University Towers dormitory.

Around 11:45 p.m., Brown was sitting on the concrete wall behind Sakura Xpress at 111 Friendly Lane in Raleigh. He was talking on a cell phone when a silver Nissan Altima with 30-day licence tags pulled up.

According to Jim Sughrue, public information officer for the Raleigh Police Department, a man armed with a handgun exited the car and demanded money from Brown.

The assailant fired a shot and Brown attempted to flee the scene. The assailant fired a second shot and it grazed Brown's arm, but did not injure him seriously.

Sughrue said Brown suffered a slight grazing wound to his arm but that there was no indication he sought or received medical attention.

"It was actually kind of shocking," University Towers General Manager Clayton Hayer said. "We haven't had anything like that recently."

The incident is believed by both Raleigh and Cary police to be connected with two similar incidents that occurred Friday night in Wake County.

Another Nissan with a matching description was spotted during a robbery that occurred around 11:30 p.m. at 3201 Hillsborough Street — outside of The Reader's Corner.

There were no reports of shots fired.

Sughrue said Raleigh Police have description of one suspect, thought to be a black male, age 18-25, standing six to 6 feet 2 inches tall and weighing approximately 180 pounds.

A third robbery — which Cary Police believe to be connected to the same suspect — occurred later that night outside a bar on Harrison Avenue.

Capt. Dave Wulff of the Cary Police Department's Criminal Investigation Division said the incident off Harrison was very similar to the one on Friendly Lane.

Around midnight, a car drove up to three males that were walking to a bar.

Wulff said two of the victims fled or hid behind a car and one tossed his wallet towards the assailant. The assailant pulled the trigger, but the gun did not fire, according to Cary Police officials.

Wulff said detectives of the RPD and Cary police departments are working jointly on the investigation.

Brown could not be reached for comment.

PLIGHT OF THE HONEYBEE

N.C. STATE PROGRAM COMBATS NATIONWIDE HONEYBEE DECLINE

STORY BY TYLER DUKES | PHOTOS BY JEFF REEVES

They call it a vampire.

To the untrained eye, this reddish-brown speck less than 2 millimeters long may pass as a spot of dirt or a piece of dried leaf.

But closer observation reveals a more sinister purpose, one that is causing significant damage to more than one multi-billion dollar industry.

Known as the verroa mite, the insect can quickly and effectively take down entire colonies of honeybees, halting the production of hive products such as honey, pollen and beeswax.

Although the harvesting of such products amounts to around \$5 billion annually, the mites are indirectly doling out destruction to much more than just the honey trade.

"The overwhelming industry is the services [honeybees] provide for pollination of flowering plants," David Tarpy, N.C. State apiculture program member and professor of entomology, said. "Plants don't produce fruit if they don't get pollinated."

According to Tarpy, honeybees are responsible for pollinating one-third of all the food Americans consume. This means that any drop in the honeybee population translates to havoc for farmers and others in the agriculture industry.



Josh Summers looks for the queen bee so he can tag her with paint. The paint allows easy identification and tells the queens age.

BEES continued page 2

BOARD OF GOVERNORS

Vote hinges on State Senate

Potential vote would give students representation on the N.C. Board of Governors

Tanner Kroeger
Senior Staff Writer

A bill aimed at giving students in the UNC-System a combined vote on the North Carolina Board of Governors is now sitting in the state Senate, after passing through the House with an 82-33 vote.

The potential vote, which would be given to the president of the UNC Association of Student Governments, would give students a direct voice on issues like tuition adjustments and budget cuts.

Rep. Alma Adams, a professor of visual art at Bennett College in Greensboro, was the primary sponsor of House Bill 92.

Adam Compton, a sophomore in engineering, is a student senator for the College of Engineering.

"This is something that really needs to get done," Compton said. "Considering the past of N.C. State, we have always allowed our students to step up and lead, and this is why we have leaders like Bill Friday and other big leaders come out of N.C. State."

Rep. Rick Glazier was one of the co-sponsors of HB-92.

According to Glazier, students deserve a vote on the Board of Governors because they are responsible for so many of their college decisions, especially financial ones.

"This was something I wanted to be a part of for a variety of reasons," Glazier said. "Primarily, it was because I went through a similar situation getting a vote when I was in student government at Penn State as an undergraduate."

Ab Tharpe, a senior in marketing education, is one of many NCSU students keeping up with the bill.

SENATE continued page 2

insidetechnician



Students seek study abroad
From the Galapagos to Peru, students are complementing study with travel all over the world, page 3.

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weather today tomorrow



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FINANCIAL AID

Loan rates to increase July 1

Haley Huie
Deputy News Editor

As the June 30 deadline approaches, some students are left debating whether or not to consolidate their loans.

Effective on July 1, the variable interest rate is expected to spike from 2.77 percent to 4.70 percent for students who are in school or are in a grace or payment deferral period, according to the College Foundation of North Carolina's Web site.

"My parents can't pay for college. I have to take out the most I can for each type of loan per semester," Allison Morckel, a junior in biology, said.

Morckel said she has taken the maximum allocation for both subsidized and unsubsidized government Stafford loans.

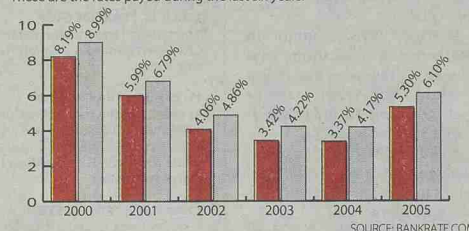
"I plan on consolidating if it means I can save money," Morckel said. "I don't want to have to worry about the rates changing."

Morckel pointed to the increase in interest rates as unfortunate because "the people who are taking out loans are doing it because they don't have the money." She said that the escalating rates would further devastate their financial situations.

After college, Morckel plans

Federal loan rates

Loan repayment periods extend from July 1 to June 30 of the following year. These are the rates paid during the last six years:



to apply for veterinary school and accrue more loans to pay tuition. She said consolidating now will allow her to lock in a

lower interest rate, and avoid spending more money on re-

LOAN continued page 2

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SENATE

continued from page 1

"With N.C. State being the biggest of the 16 [UNC] institutions, we have a pretty big voice in how the relationship with the General Assembly has gone over the years," Tharpe said.

According to Tharpe, one vote for all 16 universities to share is not enough.

"With all the politics involved with this issue, I know we won't get more than one vote on the Board of Governors," Tharpe said.

Tharpe explained that each school in the UNC system has different goals, and may be more sensitive to certain issues.

"What affects N.C. State, UNC-Greensboro or Carolina might not affect Charlotte, Pembroke or Wilmington," Tharpe said.

Glazier however, said that adding more than one vote in the bill would doom its success.

"One vote has been a struggle enough," Glazier said. "Adding extra votes to the bill would only make the process more difficult."

Now sitting in the state Senate for approval, there is no timetable for additional movement on the bill.

"I am optimistic," Glazier said. "All we can do now, though, is wait and see."

Meanwhile, NCSU student leaders are playing a wait-and-see game with the General Assembly.

"This is a step in the right direction for advocating student interests on the Board of Directors," Joe Sevits, a senator representing sophomores for the College of Engineering, said.

"Some people are saying this would put a bias on the Board of Governors, and while I feel that could be an issue, at the same time, having a student that can speak for student issues and bring it to a table, I think is something we need," Sevits said.

Tharpe, who has held a variety of positions in student government during his time at NCSU, said the bill becoming law would be a validation, of sorts, for the work the University's student government has been doing for the past four years.

"If we get this vote on the Board of Governors, it will be a big victory for all the issues we have fought for, like tuition increases, budget cuts and everything else that's happened on our campus," Tharpe said. "I'm just glad this is happening during my lifetime here at State. It makes me a lot happier to be a part of student government."

LOAN

continued from page 1

paying her loans.

Cedric Barksdale, assistant director of financial aid, said interest rates had been declining for several years, but that the government regulates interest rates depending on the economy.

"When the [Treasury] bill increases, so do student loans," Barksdale said, referring to Treasury Bill Indexes as reported by the Federal Reserve Board.

The Office of Financial Aid does not advise students on whether to consolidate their loans, but refers them to their respective lenders, according to Barksdale.

Destiny Ross, a junior in mathematics education, said she also draws the maximum amount from Perkins loans, as well as subsidized and unsubsidized Stafford loans.

She describes herself as "dependent" on her loans, and plans to repay some of her loans through service.

Ross said that she also plans to consolidate all of her loans before June 30, to avoid rising rates.

"Upperclassmen will benefit from consolidating because of the small amount of time that they have left at [N.C.] State," Ross said.

She said she doesn't predict a drop in interest rates, and would prefer to lock in her loans at the current rate of 2.77 percent.

BEES

continued from page 1

Cucumbers for example, one of North Carolina's top production crops, need to be visited by a pollinating insect 12 to 15 times to produce a good fruit.

"If the plant is visited any less, it's going to bear a misshapen fruit," Tarpy said. "If it's not visited at all, it will produce no fruit."

Although honeybees aren't the only insect that does the job, they are the best at it, as apiculture program technician Josh Summers points out.

"A lot of crops are non-insect dependant and many have more than one species that visit the flowers," Summers said. "Honeybees are by far the most efficient and are around all season."

The bumblebee, Summers said, also does the job. But where the bumblebee maintains a hive with an average of 30-40 members, honeybee hives with 40,000 bees are not uncommon. They also produce almost 90 pounds of honey per year, as opposed to the fingernail-sized amount bumblebees generate.

The 'vampire' mite

Hitching a ride on the back of honeybee, the verroa mite's small size allows it to easily infiltrate a bustling hive filled with close to 40,000 bees. It is here that the insect, colloquially known as the "vampire" mite, begins its work.

It uses its eight crab-like legs to maneuver into a honeycomb where a growing bee resides. It then pierces the skin of the vulnerable pupae inside, draining its blood for the duration of its growth.

When the adult bee finally emerges after several days, it is deformed. With a few legs absent, maybe even a wing or two, the bee is unable to work to its full potential.

The mite then does what is perhaps the most damaging step of all: it multiplies.

From there on out, if left unchecked, it's just a matter of time.

"Productivity crashes until the hive dies," Tarpy said.

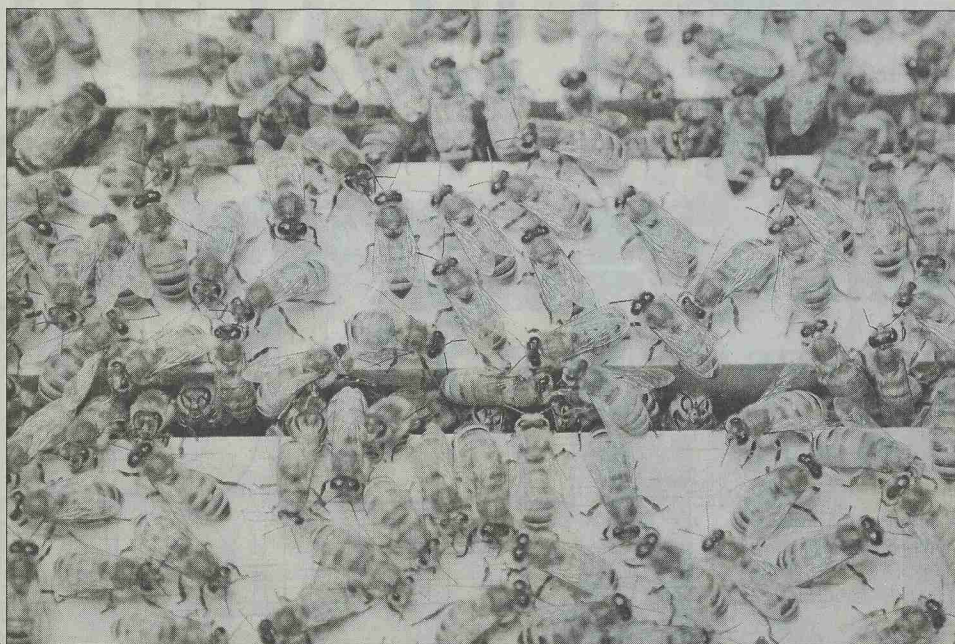
But verroa is just one of the two most destructive forces to the honeybee population. The other is the microscopic tracheal mite.

"They live inside the breathing tubes of the honeybee, so they can actually suffocate from the inside out," Tarpy said.

Although their exact origins are unknown, Tarpy said the mites were most likely introduced through expanded global interaction. Since the appearance of the mites about 20 years ago, the population of managed bees has dropped by about one-third nationwide. By itself, North Carolina has lost 44 percent of its honeybee population during that time.

Wild honeybees, which do not receive the benefits of treatment or preventive maintenance, have dropped an estimated 95 to 99 percent since the mites came on the scene.

"What that means is that if you see a honeybee, it's probably from a beekeepers hive," Tarpy said. "You can probably



Honeybees cover the top of their hive as work endlessly to complete the combs inside. Worker bees will work until death to serve the hive. JEFF REEVES/TECHNICIAN



Summers stuffs the smoker with pine needles. Smoke disrupts bee's communication. JEFF REEVES/TECHNICIAN



The queen bee is easily recognized, with her elongated, near-solid colored body. Summers has marked the queen with paint and clipped her wings so she can not leave the hive. JEFF REEVES/TECHNICIAN

thank a beekeeper neighbor for that honeybee being there."

Feeling the sting

Don Hopkins said he has definitely noticed the downward trend.

A state apiculture inspector since 1989, Hopkins has been a bee enthusiast off and on since he was 10 or 12 years old. For

"We've challenged the mite, and the mite has risen to the challenge."

-Don Hopkins

the last 16 years, Hopkins has provided support for grower and beekeeper alike, in order to help "protect and promote the honeybee industry."

As Hopkins explains, the increase in problems has meant much more work for both sides of the industry.

"When I was a kid there was this disease that was really the only major concern beekeepers had from a destructive standpoint," Hopkins said. "Now a lot of things have to be done. You can't just let [beehives] sit

there like you used to."

Although Summers said that no formal numbers have been crunched as to the effect of the honeybee decline on agriculture, he and Tarpy point out that more often, growers are being forced to take new measures to increase production in the fields.

"Commodity groups are starting to realize that in order to increase yields, they have to rent bees from keepers," Tarpy said. "Honeybees are transplanted to orchards and crops to fulfill that service."

For years, the main choice of combat against the mites has been two types of pesticides, but this will only last for so long.

"[The chemicals] were highly effective, but the mites evolved a resistance to them," Tarpy said. "They are slowly becoming less effective."

Hopkins describes it a differ-

ent way.

"We've challenged the mite, and the mite has risen to the challenge," Hopkins said.

Doing the leg work

Located in a laboratory off Lake Wheeler Road, the N.C. State apiculture program is involved in some of the research which Tarpy said has the potential to change the tide of the honeybee decline.

"We're lucky we have some really smart people working on this," Tarpy said. "They've actually developed several strains [of bees] that are really tolerant of these mites."

Matt Meyer, a sophomore in biology, began work at the Bee Lab about five weeks ago. Although he said he is still learning the ropes, he is also currently involved with a study to find out which types of bees are less susceptible to mites and other diseases.

"I basically just go in and collect information," Meyer said. "We're trying to learn about the mites and other parasites that feed off the colonies."

Hopkins said that while current methods, like pesticides,

may be a short term solution, the bee lab is looking ahead.

"The real answer is some of the work [Tarpy] and his staff are doing, learning quite a bit more about the genetics of the bee and the genetics of the pest," Hopkins said. "They're breeding a more tolerant form of bees."

The program is trying to raise awareness about the problem as well, even donating two beehives and all the necessary equipment to Chancellor James Oblinger and his wife, Diana in mid-May.

Whether a result of their attempts or not, Hopkins said he has noticed some that seem to have noticed the problem.

"To a certain degree, [people] are not aware of what they're missing," Hopkins said. "Surprisingly though, some people have realized, 'gee, I don't see as many bees as I used to.'"

According to Tarpy, the apiculture community is on their way to fixing the problem.

"I have the feeling we're at a turning point," Tarpy said. "With all of the different weaponry in our arsenal, we should be able to reverse this decline in honeybee population."

POLICE BLOTTER

06/12/05

1:56 A.M. | TRAFFIC STOP

A non student was issued a citation on Cates Ave. for speeding 51 mph in a 20 mph zone.

11:33 A.M. | TRAFFIC STOP

As a result of the traffic check point listed above a non student was issued a citation for no drivers license, and failure to use child restraint for a two year old passenger.

12:49 A.M. | TRAFFIC STOP

A student was issued a citation for speeding 35 mph in a 20 mph zone on Dan Allen Dr.

2:08 A.M. | TRAFFIC STOP

A non student was issued a citation for running a red light at Cates Ave. and Morrill Dr.

10:02 P.M. | FIRE ALARM

Officers responded to Mechanical and Aerospace Labs in reference to a fire alarm. The activation was accidental.

10:41 P.M. | SUSPICIOUS PERSON

A student reported a male looking

under cars in the Dining Hall parking lot. Officers were unable to locate anyone in the area.

11:01 P.M. | DRIVERS LICENSE/REGISTRATION CHECK POINT

Officers conducted a Drivers License/Registration Check Point on Varsity Dr. at the back entrance to the McKimmon Center. Four verbal warnings were given.

11:19 P.M. | SMOKE HEAD ACTIVATION

Officers responded to Wood Hall in reference to a smoke head activation. The cause for the activation is unknown.

12:16 P.M. | UNSECURED BUILDING

Officers on patrol found the door to Price Music Center was propped open. A faculty member was located inside. He stated he found the door open upon his arrival. The door was secured.

4:00 P.M. | TRAFFIC STOP

A non student was issued a citation for

speeding 37 mph in a 20 mph zone on Dan Allen Dr. near Cates Ave.

4:59 P.M. | SUSPICIOUS PERSON

A student reported seeing a male subject wearing blue jeans, and a black shirt looking in a library patron's bag in the DH Hill Library. When confronted the subject ran. Officers checked the area and located the subject. A check of all files were negative. He was trespassed from all NCSU property.

6:31 P.M. | TRAFFIC STOP

A student was issued a citation for speeding 47 mph in a 25 mph zone on Sullivan Dr.

7:37 P.M. | ANIMAL PROBLEM

A non student reported an injured deer on Lake Wheeler Rd. An officer found that the deer had crawled from the roadway on to NCSU Turf Grass Field Lab. Wildlife responded.

06/13/05

1:43 A.M. | ASSIST OTHER

A student reported hearing noises coming from the upstairs area of Syme Hall. Officers found

housekeeping on the fourth floor stripping and waxing the floors.

11:25 A.M. | FIRE ALARM

A fire alarm was activated in the Butler Communications Bldg. FP, and RFD responded. The cause for the activation is unknown.

11:32 A.M. | MEDICAL ASSISTANCE

A student at the Student Health Center was complaining of leg and stomach pain. The student was transported to Rex Hospital.

6:58 A.M. | FIRE ALARM

A fire alarm was activated in Schaub Hall due to a surge in water flow. Police, FPD, and RFD responded.

8:16 A.M. | FIRE ALARM

A fire alarm in Gardner Hall was activated. Police, FP, and RFD responded. The cause for the activation is unknown.

8:25 A.M. | DAMAGE TO PROPERTY

A student was referred to the

university for damaging a boot the Department of Transportation had placed on his vehicle in the Jordan Hall lot.

12:35 P.M. | ILLEGAL PARKING

A vehicle was parked in the no parking zone in the DH Hill Carriage Way.

5:14 P.M. | FIRE ALARM

A fire alarm in Winston Hall was activated. Police responded. The cause for the activation is unknown. Electronics was still working on the problem when the alarm activated.

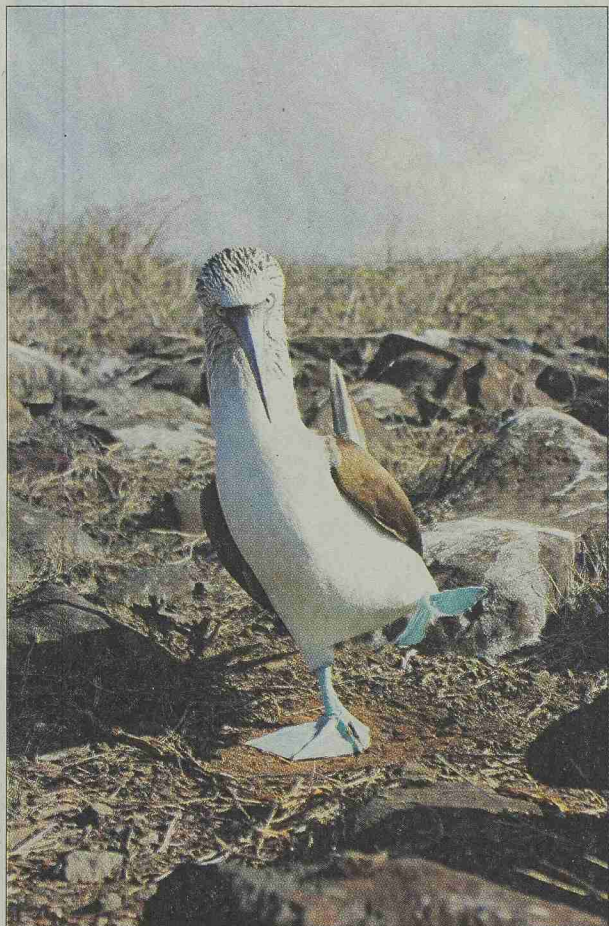
5:24 P.M. | WELFARE CHECK

There was a report of a dog left in a vehicle on Cates Ave. The windows were reported to be cracked. The vehicle left prior to the officers arrival.

8:01 P.M. | FIRE ALARM

Police and FP responded to Partner II in reference to a fire alarm. Officers located two pull stations that had been activated, but there was no cause as to why they were pulled. The system was reset.

Study abroad expands world view



A blue-footed booby waddles through the rocks on the Galapagos Islands.

Curtiss Martin
Staff Writer

For Ian Quate, a senior in art and design, it was like living inside a memory.

"It's a strange sensation," said Quate, who recently returned from studying abroad in the Galapagos Islands. "While there, I would ask myself 'Where am I?' Then it would hit me — I was still in the middle of the Pacific."

For Quate and more than 600 other N.C. State students who study abroad each year, the experience of studying in a foreign land is one filled with many unexpected insights.

"I guess you could say that I was looking for something outside of the Raleigh experience," Quate said.

After returning, Quate said, everything about his life in Raleigh, the lights in his home, the smell of his room, even the sounds outside, seemed more novel.

"It's strange coming home. You bounce everything around in your head and you realize that it's all connecting with something that existed before you left," Quate said. "It makes you feel a little detached after you've been gone so long."

For communication senior Will Reyes, who is currently in Peru, studying abroad is a great experience for learning about yourself and your culture, "especially when you realize how different the host culture is compared to yours."

"Studying abroad is a huge step for people who usually don't take risks," Reyes said.

Like other study abroad students, this was Quate's first time living away from the U.S. for an extended period.

"Physically, packing for the semester was similar to preparing for an extended trip," Quate said. "But mentally, you



PHOTO COURTESY OF IAN QUATE

A Galapagos marine iguana suns itself in the sand. These vegetarians gnaw algae off rocks, basking in the heat to "cook" their food in their stomachs.

have to tie up a whole lot of loose ends before you leave."

Quate prepared for the trip by reading up on the Galapagos Islands and Ecuador in the months leading up to his departure.

"I didn't know exactly what I was getting into," Quate said. "Now that I'm back, I can't remember how I used to think of the Galapagos. I was surprised to find so many people there."

One of Quate's biggest realizations came from observing the locals.

"The pace of life is much slower on the Galapagos, but people still manage to get the same amount of work done," Quate said.

For students returning from abroad, life back home seems almost dull compared to their time outside the U.S. borders.

"It feels a little mundane being home after you've been doing something new for so long," Quate said. "Every day, there were new challenges."

In some programs, this means waking up and speaking another language other than English.

"You have to immerse yourself in the culture and use all of your brainpower

to understand the language of another country," Reyes said.

During his stay in Peru, Reyes' understanding and grasp of the Spanish language improved.

"All of our classes are taught in Spanish," Reyes said. "Everywhere you go, you have to use the language in everything that you do."

Though these programs are found in non-English speaking countries, studying abroad does not require the ability to speak a foreign tongue. The study abroad office caters to a wide range of skill levels to help students find the best fits.

"We get students at every stage walking into our offices daily," PJ Shoulters, associate director and manager of summer programs at the Study Abroad office, said. "We help students who have no idea where they want to go or what they want to study, as well as students who have everything planned, mapped out and ready to go."

The most common advice from the study abroad office as well as participating students is the same.

"Do it!" Reyes said. "Everyone should study abroad at least once."

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Hurricanes predicted to threaten East Coast

With a newly developed computer model, researchers predict five to six hurricanes to form this year

Matt Wilson
Staff Writer

The project began two years ago based on research by Lian Xie, a professor of marine, atmospheric and earth sciences, Leonard Pietrafesa, a professor and College of Physical and Mathematical Sciences director of the Office of External Affairs and by graduate student Tingzhuang Yan.

According to Xie, the group was looking for a more accurate hurricane prediction system than what was currently offered.

"Year after year, I'm teaching tropical meteorology where students in the class say, 'Hey, why can't we tell how many are actually going to make landfall?'" Xie said. "[The current prediction models] don't tell how many go to land."

Xie said he met Yan, who had already obtained a master's degree in computer science, and found the two were a great match.

"At that time I had this idea to make a model on how many hurricanes will make it to land," Xie said. "The landfall hurricanes are really the only ones we care about."

Xie said this has been a question and idea he's had in his mind for a long time.

"If you've been looking at [hurricane tracking maps] for the past 50 or 100 years, the hurricanes are spread all over," Xie said. "It's a very crowded place if you put all the tracks together."

The group began to look at factors that cause hurricanes to form and those that affect hurricane tracking.

Yan said his role was to implement the prediction model under Xie's supervision.

"We analyzed those factors that are associated with the Atlantic hurricane activity and tracks," Yan said.

Xie overlaid the hurricane tracks and by using a statistical methodology for pattern recognition, the group looked for significant trends.

"We used that model to track models or patterns in this complex track data system," Xie said. "What we were able to do is identify the leading or the most important patterns."

Three significant patterns emerged,

the most important of which was the water temperature gradient, the difference of water temperatures north and south of the equator, according to Xie.

"That allowed us to see a little bit more than other people. We were able to identify one of the key patterns that nobody else has identified in the past," Xie said.

The group soon began to identify factors that affect or are related to the top three hurricane patterns.

"For example, the presence of an El Niño event, with its accompanying teleconnection pattern, could be a good indicator for a less active hurricane season in the Atlantic Ocean," Yan said.

Using the computer model, Xie and his group predicted five to six hurricanes to form this season and of those, two to three will make landfall on the East Coast.

"What we have actually calculated is a probability," Xie said.

The group obtained their data from the Climate Prediction Center, a division of the National Oceanic and Atmospheric Administration, and from the El Niño/Southern Oscillation index from the Japan Meteorological Agency. The data is publicly available to download.

Xie hopes to improve the model and narrow the landfall regions predicted.

"Right now our first step is to see what makes landfall on the entire east coast. That's the entire East Coast," Xie said.

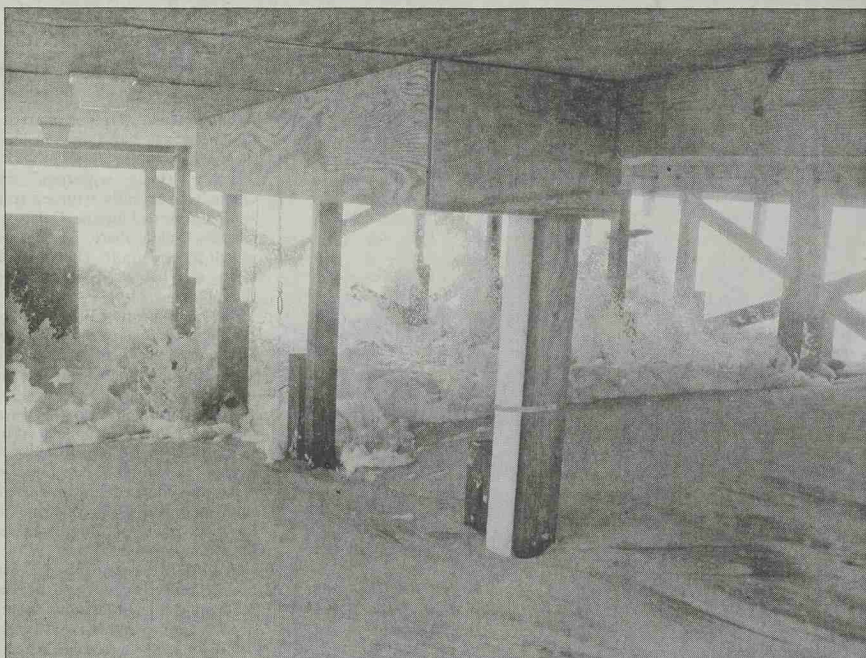
"Our next goal is to see if we can narrow down the range as in how many are going to hit the Southeast Coast, versus the Northeast Coast."

Yan said he will identify more factors that affect hurricane formation and tracking.

"My research will head to constantly improve the model by identifying more possible climate factors that may influence hurricane track patterns," Yan said.

The tracking model announcement was made June 1 at a forum hosted by Congressman Bob Etheridge on Centennial Campus. Attended by approximately 85 people, the forum brought together state and federal government agencies and private companies, like Progress Energy.

Sally Ramey, director of college relations for PAMS, said the forum began five years ago as Etheridge's brain child. The purpose of the conference, she said, was to discuss the current and ongoing work in flood modeling.



Violent waves crash against pilings of a beach house on the Outer Banks during Hurricane Isabel in September 2003.

"[The forum] got everybody together who needs to be aware," Ramey said.

Allen Riordan, an assistant professor in meteorology, earth and atmospheric sciences, said the prediction model holds potential.

"It's something that looks promising but needs to be tested, perhaps similar to National Oceanic and Atmospheric Administration prediction scheme," Riordan said. "That has proven fairly well as to predicting how many storms there will be."

According to Riordan, the model may give those most affected by hurricanes — insurance companies and coastal residents — a good idea for the kind of hurricane season ahead of them.

"That's what people will need to use in order to plan, so if you're an insurance company or a coastal resident this has the potential [and] will give you some idea," Riordan said.

The prediction was published in a recent issue of Geophysical Research Letters.



Flood waters rise up the driveway of an Outer Banks beach cottage. When Hurricane Isabel made landfall on Sept. 18, 2003, its winds were clocked at 100 mph. It created 30-foot waves and was responsible for knocking out power to 700,000 people.

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Scientists explore the creation, application of wrinkled surfaces

Surfaces could include an extensive amount of commercial applications, including ship coatings for Navy vessels

Matt Wilson
Staff Writer

Researchers are attempting to prove the usefulness of wrinkles.

Jan Genzer, an associate professor in chemical and biomolecular engineering, and Kirill Efimenko, a senior research associate in the chemical and biomolecular engineering department, discovered the creation of wrinkled surfaces while attempting another experiment.

The discovery was made while attempting to bind molecules to an elastic surface, Efimenko said.

"It was just a side reaction of when you take some material and stretch it, and if you modify the surface to harden and you relieve the stress, it basically buckles," Efimenko said.

The researchers found that the wrinkles were similar and nested. Each wrinkle pattern is repeated on the surface.

"[We saw] at least five different generations of wrinkles sitting on top of each other — one sitting on a larger one, sitting on an even larger one," Genzer said.

The size of the wrinkles ranged from millimeters to nanometers — one billionth of a meter.

According to Genzer, measuring the dimensions of the

wrinkles was difficult due to their fragility.

"You have to be very careful with these materials," Genzer said. "We had to develop a procedure."

Genzer and Efimenko applied a soft rubber topology to measure the dimensions.

Initially the two only estimated four generations existed on the wrinkled surface.

Then the researchers contacted a theoretical group at Harvard who had predicted the formation of self-similar wrinkled surfaces.

"The interesting thing is we only saw four generations, [Harvard researchers] were pushing us to look for a fifth generation and we actually succeeded in finding it," Genzer said.

Much of the research was done in collaboration with groups at Harvard and Penn State.

"It was very educational for us to work with those people. It would be impossible without their contributions," Genzer said.

Efimenko said the researchers could control the number of generations of wrinkles produced.

"The way it's done is you take the elastic materials and you stretch it some percent and then you harden the surface and release the stress," Efimenko said. "If you stretch it 10 percent or if you stretch it 300 percent you will have a different number of generations."

The group is now working on controlling the size of the smallest wrinkle generation.

"Something we are actu-

ally working on right now is we think we can control how big the smallest [wrinkle] is," Genzer said.

Efimenko said the procedure to create the wrinkled surfaces is "dirt cheap" because the base materials are inexpensive and no special equipment is required.

"It's extremely simple and extremely cheap. That's the beauty of it," Genzer said.

After the discovery, Genzer began looking at how the wrinkled surfaces could be used.

The first application, which Genzer described as "for fun," used the wrinkled surface to separate beads of different sizes.

The smallest generation trapped the smallest beads, the next larger trapped the next larger sized bead, and so on.

Genzer also looked into other possible commercial applications.

"We've a program sponsored by the U.S. Navy that actually aims at developing coatings," Genzer said.

"We just started testing these materials for fouling properties so we can't present anything conclusive, but some of the first experiments we've done are very encouraging. But there is a lot of effort that people have put into developing these coatings."

Wrinkled surfaces could be used in ship coatings to prevent marine adhesion—sea creatures like barnacles from attaching to the hull.

The bio-fouling could damage hulls, and it causes drag and increases the amount of fuel

ships use.

"We're actually doing tests right now on Wrightsville Beach," Efimenko said.

The wrinkled surfaces could be an attractive option to prevent bio-fouling, Genzer said.

"There is a lot of push to develop coatings that could prevent or minimize marine adhesion without being poisonous," he said.

Aside from the anti-fouling coatings, Genzer said the two will look at understanding the wrinkles further.

"We would like to understand more of forming these wrinkles. We believe we know the answer but we would still like to double-check it," Genzer said.

"We are looking at fundamental issues associated with the properties of this surface."

One of those fundamental issues includes how liquids will act on the wrinkled surface. Genzer wants to know if they will spread or not and why.

Although Genzer said the commercial applications are the driving force of the research, he thinks there are many other applications that could benefit from the wrinkled surface coatings.

"We've always benefited greatly from strangers talking to us. We're always very open to what anyone could suggest," Genzer said.

"It's helped us in the past to open our eyes and say, 'Hey, this could be a cool application.'"

The research was published in the Journal of Nature Materials.

CAMPUS FORUM

To submit letters to Campus Forum, send your thoughts to viewpoint@technicianonline.com. Please limit responses to 350 words. Technician serves the right to edit for grammar, style and size.

I am writing this letter to say that I am a "leftist" and I am proud. There was an article in last week's Technician, written by Daniel Underwood, that stated horrible untrue things about "liberals" and I would just like to clear a few things up. First of all, Mr. Underwood stated that in the election of 2004 Bush won a "landslide re-election." According to USA Today Bush won 286 electoral votes to Kerry's 252. This hardly seems like a "landslide" reelection to me. I know several people can remember staying up election night waiting on Ohio's votes to come, so they could declare who had won the presidency. I believe that if Mr. Underwood is prosecuting Newsweek for publishing false facts, he should try to get his facts straight. I would also like to clear up some facts about the people that oppose the president's views, who have been called "liberal." First of all they do support our troops. I have myself attended some of these protests that Mr. Underwood speaks of and have met some of these "protesters" that he claim are against America's interests. I found quite the opposite of what Mr. Underwood described. "Liberals" that I have met feel that protesting to bring home troops from an unjust war is a form of support. Next, I

would like to say that as a member of the "left" I have never and will never hate or "mobilize" my forces against America. I love America because it is a country where if you have a problem with the government, you have the right to speak up and attempt change it. I think that many people forget that there would be no America if people had not chosen to stand up to the colonial powers of England.

"Liberal Leftist" Johnnie Lang
Sophomore
Environmental Engineering

Imagine my pleasure upon finding a new edition of Technician today. I enjoy Technician, particularly the Viewpoint, because I see it as a sounding board for students, which often produces provocative discussions.

So I begin reading an article entitled "The left, the nation on its knees" by Daniel Underwood. And this is why I am now sitting at my computer, writing to you.

I can not believe that you would let someone print an article that contains such a lack of journalistic integrity. His article is so riddled with opinions stated as fact, straight out inaccuracies and racist

comments, that I am appalled you printed it under the heading of Technician. His article was not only an uninformed attack on "the left" (which apparently includes Technician as a "media outpost") but also reinforced anti-Islamic sentiments with no justification, encouraging hate and fear that many student organizations fight against. He says "Well if a group of Americans happen to misbehave, a few 'holy books' might get splashed with urine. However, if a segment of the Islamic community veers off the beaten path, infidels start dropping like flies." Not only does this demean the holy book of a major world religion, but it says that Muslims are more prone to violence and encourages people to fear them. He further accuses Islam of making people violent saying as a result "I am not necessarily saying they (prisoners at Guantanamo) should be denied their holy book, but it is a reasonable suggestion." Is this the message that Technician would like to spread, one of prejudice? Did the editors read this article before publication?

Katie Rose Levin
Junior
ET

Looking for something to do

Man, I'm bored. There's nothing to do.

It happens every summer. In April I can't wait for classes to be over. Yes, the promised land of summer vacation is just beyond my final exams.

A couple of months ago, summer to me was the land of the free. I'd stay out late, sleep late, be late for work, and if I had classes, I would have been late for them also. Yes, for a precious three months I'd be free to a life of tardiness, nay, the liberty to do whatever I bloody well feel like doing.

About two weeks into every summer vacation, it seems I always find the grass is greener on the other side.

Sure, summer is everything it was promised to be. I have the wide expanse of Salisbury at my whim. Any cruddy day job, any lame party, it seems the whole town is mine for the taking. The problem is that I don't want any of it.

Which brings me back to my first point. There is nothing to do.

I expect that I have some kindred souls out there, fellow students that have more free time than they know what to do with. If there's one thing I've learned through years of summer vacations, misery loves company. As a rough estimate, I think I spent close to half my grade school summers sitting in the living room with my friends, repeating our timeless mantra: "Man, there's nothing to do." So grab a spot on the couch, and let's work through this problem together as we have countless times in the past. Who knows, maybe for once we'll actually find something to do.

First, let us evaluate our situation. We are sitting around the house on a weekday afternoon. The gods of meteorology must be cooking up some steamed earthing for

dinner, it is way too hot and humid to do anything out of doors.

Incidentally, if you happen to be in a climate that boasts a more temperate summer than the great state of North Carolina, let us assume that it's too cold for you to go outside, you bastard.

So it seems we are confined to a state of air conditioning. I guess we could see what's on the tube. Let's see, there's soap operas, MAD TV reruns, a Law and Order marathon, chick emotional porn on Oxygen, oh look MacGuyver is on but you've seen that episode before, and I switch to MTV but there's no music, only commercial lame-ness aimed at manipulating middle school egos. We quickly realize that the only quality programming is on the Food network.

Which gives you an idea for something to do!

Why don't we watch a cooking show, and then make the food ourselves? Yeah, that would be cool, but there's no food in the house besides tortilla chips and pimento cheese. I don't feel like driving to the store right now and neither do you.

We turn on the X-box for a while and start a game of Halo. However, after countless hours of gaming last semester, I'm sick of shooting things and we only play one death match. Ten minutes pass, and we are still bored on this eternal summer afternoon.

Man, there is nothing to do.

Back when we were kids, on a day like this we would gather up all of our friends and go the pool. We would play sharks and minnows and Marco Polo, and every hour when the lifeguards took their break, we would play four square on the hot pavement. That was something to do.

It's too bad we can't do that anymore. All of our friends are have moved away. I guess you and I are the only lazy bums that haven't found anything to do yet this summer.

I suggest that we go to the library

and try to find some books to read. You say you read way too much last semester and you don't feel like it. I retort that fluid dynamics isn't exactly literature, and you agree to go after I point out that there is nothing to do here.

Driving through town, we pass Food Lion and you ask me if I have applied for a job there yet. I reply that I don't really feel like working there, but I might have to. I haven't been able to find anything else this summer. I think the high school kids have taken up all the jobs. It seems that my hard earned B in Abstract Algebra last semester hasn't paid off in the retail sector for me. I guess knowledge of higher math isn't exactly what they are looking for at the Electronics Boutique.

We pass the local YMCA, but neither of us have a membership since we've been away at school. Otherwise, we might go there to play racquetball or lift weights.

Upon arriving at the public library, I find the doors closed. It seems that due to budget cuts the library has reduced its hours. You remind me that you thought it was a bad idea to come here in the first place, and I offer you the option of walking back home. After opting to stay in the car, you suggest that we go to the mall, where we pass the remainder of the afternoon sitting on a bench, drinking slushies and complaining that there is nothing to do.

I guess we never found anything to do. Actually, maybe we did find something. In a roundabout way, the search for something to do can be something to do in itself.

You say that I'm full of crap, and I agree. At least we can content ourselves with the knowledge that in October, when the weather turns sour and we are overloaded with school work, we will envy ourselves in June lying around with nothing to do.

E-mail Ken what you do at
viewpoint@technicianonline.com

TECHNICIAN'S VIEW

GIVING BACK TO THE STATE

OUR OPINION: A NEW FACILITY ON CENTENNIAL CAMPUS WILL GIVE THE UNIVERSITY AN OPPORTUNITY TO LEAD THE STATE AWAY FROM A TOBACCO-BASED ECONOMY. THE BIOMANUFACTURING TRAINING AND EDUCATION CENTER WILL BENEFIT NCSU AND COMMUNITY COLLEGE STUDENTS IN ATTRACTING THE BIOTECHNOLOGY INDUSTRY TO THE STATE.

Mmm, cigarettes.

Not to smoke, that is up to the individual. But for North Carolinians, to produce them was a godsend. So much of one, in fact, the economy became dependent upon it.

Since 1999, however, North Carolina has been moving to an economy centered on something else — anything else. And now, N.C. State will be helping that transition happen.

Golden LEAF, a non-profit organization formed out of the swarms of settlement greenbacks the state will be getting from tobacco class action lawsuits, has made a generous donation to create a new training facility on Centennial Campus for the biotechnology industry.

The Biomanufacturing Training and Education Center is NCSU's most recent "best-thing." There is nothing negative, restricting, or even limiting about this center being on campus.

North Carolina is among the top three states in the country for biotechnology and this could put our state over the top. One of the problems with the farming industry and making low technology products, like tobacco, is that often, the exact same product can be made overseas without as much damage to the pockets. Farmers competing with that fact alone has driven the tobacco industry into

the ground. For years, tobacco farmers, distributors and those in the industry have been trying to find a cheaper way of doing the same thing because their lifestyle depended on it.

N.C. State will be aiding the state in finding an alternative.

Developing BTEC does nothing but illustrate NCSU responding to a need of the state and giving back to it. Not only will it be creating a partnership with the state to educate and employ North Carolinians for North Carolina, but it will also create one with community colleges because students from there will also be attending the training and modules.

This allows NCSU to find a way for the state to support itself on a high technology field that can always grow. A problem that many people in the industry have is that once hired, employees are not familiar with working in the lab. This training facility allows for education through experience and eases the friction in the transition from academic learning to industrial production.

In conjunction with that, one of the biggest problems of the biotechnology industry is that there are not enough qualified people to manage, function and maintain production.

That problem now has a solution and we will be leading its way.

The unsigned editorial that appears above is the opinion of the members of Technician's editorial board excluding the News department and is the responsibility of the editor in chief.

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Take heed, here is free advice for the Democratic Party

If the Democratic Party has any hope of resurrection from the dead, they had better drop Howard Dean like the bad investment he was. Dean has made news headlines recently in light of his manifest propensity towards falsification and ignorant rambling.

Speaking recently in San Francisco, Dean said that republicans "all behave the same, and they all look the same ... It's pretty much a white Christian party." Apparently after losing the recent presidential election, the democrats have abandoned their platform of ideas and have adopted a new strategy. The democrat's new motto is: "Vote for us, we look different and we aren't Christians!"

Very few people really know what Dean meant by calling the Republicans a "white Christian party," and even fewer people care. Even the most politically uninformed listener could easily tell that Dean is either mentally unstable or just carelessly brash—but certainly not fit to be the Democratic Party's mouth-piece and representative.

One often hears criticism of conservatives

— most of which happen to be Republicans — intended to be taken as criticism of the Republican Party. Democrats castigate people like Rush Limbaugh, Pat Robertson, and Ann Coulter for making sweeping generalizations about the Democratic Party and using angry, bigoted speech to inflame their listeners. And sometimes I agree with criticism of this kind. But the problem here is that Limbaugh, Robertson, and Coulter are not officials or leaders of the Republican Party—they are individuals with opinions just like you and I. Anything they may or may not say is a reflection of their own viewpoints and should not be taken as republican holy writ.

However, when a slugger like Howard Dean steps up to the bat, the democrats expect him to speak, at least to a large degree, as their representative. So when Dean makes blatantly bigoted comments about the Republican Party, should we assume his views are those of almost all democrats?

Democratic Senator Joseph Biden does not think so. Dean recently said, "We have to be rough on the republicans. Republicans don't represent ordinary Americans, and they don't have any understanding of what it is to go out and try and make ends meet." When Senator Biden heard this, he told reporters, "[Dean] doesn't speak for me ... and I don't think he speaks for

the majority of democrats."

I am glad to hear Senator Biden speak with candor. But, unfortunately for the democrats, they have a party chairman who does not represent the views of the party. Or, should he even represent their views in the first place? Wait, I thought they abandoned their views and are now sailing strictly on the winds of tolerance and diversity (excepting of course tolerance toward and diversity including white Christians)? Now I am confused, who is Dean and what has he done with the Democratic Party!

As evidence of Dean's prodigious capacity for logical thought, he said of illegal immigrants, "[We] understand we have a border problem. ... [But] a lot of them are paying into the Social Security system and getting nothing. Those people ought to be on a reasonable track toward citizenship." In other words, Dean says that illegal immigrants who have not broken any laws (excusing of course illegal immigration) and are paying taxes ought to be given the opportunity to become full-blown citizens.

Certainly Dean is against most types of crime. If someone steals a car and is found many years later, Dean would surely agree that this person ought to be arrested and charged. But what if that person gave the car a new paint job, used only premium gasoline, and spruced-up the

interior with some Armor All and pine-scented car freshener? I guess Dean would say, "Let him have it, he deserves it!"

Not only is Dean by himself bad news for the Democratic Party, but he seems to be attracting followers. N.C. State University Alumnus and ex-President of the NCSU College Democrats, Matt Spence, recently sent me an e-mail in response to a column I wrote about the "American Left." Though he did raise some intelligent counter-points, they were somewhat hidden behind his shrill and vitriolic tone.

He started his e-mail by saying, "I'm going to start by telling you what I think so that we can get it out of the way and move on to the actual issues. You're an ignorant, small-minded, neo-fascist piece of [expletive]." About halfway through the rest of his so-called response, he interjected, "I have the sudden urge to call you an ignorant sack of [expletive] again. But I digress."

I am quite certain that democratic leaders, like Dean and Spence, are intelligent and civil people. But if the Democratic Party wants to again command respect in America, they need to be a tad more circumspect about their public leaders.

E-mail Daniel any advice you have at
viewpoint@technicianonline.com



Daniel Underwood
Staff Columnist

NOTES FROM ABROAD

Finest meat found in German Capital

Presently, I am in Strasbourg, France. Though a French city, it lies near the German border, and according to my hostel keeper in Berlin it is the capital of Europe.



Jeff Gaither
Foreign Correspondent

I have not had a chance to accurately judge this bold claim, although I am glad to be in a city on the Rhine. I mean to go see that storied river as soon as I have finished this column.

I was in Switzerland the last three

days and was unimpressed. I found it beautiful, but without historical or cultural value. One goes to Switzerland to experience the land which the Swiss own, not on account of any merit on the part of the Swiss themselves. The Swiss themselves are merely a clever, industrious people good at making watches, chocolates, knives and money.

I did see a monument to the brave and honorable Swiss mercenaries who died in the service of Louis XVI. They refused to abandon him in the face of full-scale revolution, and were shot or guillotined.

It was an enormous dying lion carved into the side of a gray mountain, a broken spear in his back, used to commemorate their devotion to duty.

I am often alone and thinking much;

"If my true love ever dies in our old age, I shall emigrate to Germany and kill myself slowly and pleasurably with sausages, cream buns and beer."

Jeff Gaither

and if I have reached one single, consistent conclusion, it is that all philosophies, in themselves, are worthless.

Thoughts never said no to a beer; relations never spoke to a woman; truth never made anyone a friend. Thoughts require no courage and no sacrifice.

Indeed, in the realm of thought we are all equals: for we should all like to be rich, beloved and popular. It is our actions which decide which of us will be, and which will not. Intention is nothing; action is all.

But of course, if all philosophies are useless, then "All philosophies are useless" is the most useless of them all.

I stayed in Germany for four days, all in Berlin, and it was the most pleasant city I have encountered. It is cheap to live in, there is plenty of good honorable war history — and the people are friendly and hospitable.

The best part about Germany was not the history, but the food. It is worth going — just for that. Sausages, thick as a dainty girl's wrist; enormous buns filled with chocolate cream; hot rolls with mustard; brownies as big as your hand; ten kinds of meat for breakfast; and, of course, beer.

Beer! Alcohol! Foul serpent, bane of

my existence, tragic flaw! I found German beer to be superior to all others, and Swiss beer to be like Switzerland itself: pleasant, but not extraordinary.

I saw no statues of Adolf Hitler, and actually spoke to a friend's girlfriend, a resident of Germany, about how German schools go about teaching of the World Wars and the Holocaust.

Apparently students are taught, almost, to be ashamed of Germany — to dislike their own country for involving the rest of the world in five-year conflicts and murdering millions of human beings; to take no pride in being German.

This is rubbish. The Germans have much to be proud of. In the first place they are the best soldiers in the world. Two quotes in support of this:

"The word Germans was something to be afraid of. We did not want to have anything to do with the Germans."

—Ernest Hemingway

"Now that the war was over, it was possible to give the German soldier credit for being the best fighting-man in Europe."

—Robert Graves

It is also worth noting that the Germans twice took on the whole world and nearly

won, without enjoying the command of any military genius. The German race was its own Napoleon.

And since the function of a nation is to fight (these are Hitler's ideas, not mine, though I agree with them), and the Germans are the best fighters, it follows that they are — in a very real sense — the greatest nation in the world.

They should be proud, rather than ashamed of the wars they have fought.

Hitler, while on the subject, was an extraordinarily talented man. He was a genius if there is such a thing, and it is both inaccurate and unwise to call him crazy.

He had a poor opinion of the value of human life, but that does not make him insane. He created jobs for millions of hungry Germans and raised them to a place among the first nations of Europe.

If a man ever loved his country, Hitler did. It is true that he ordered the murder of millions of civilians, but...

What on Earth am I saying? But nothing. World Wars may be excused, perhaps, but not unprecedented genocide. In the years 1939-45 the German government, under his direction, executed six million Jews and nothing can pardon or justify this.

If we will honor nations for their glories we must despise them for their crimes, and it must be a century at least before anyone can think of admiring Germany.

Searching for amazing ways to live

I worked and saved for a year to be able to backpack around Europe this summer.

But during that time, I did more than earn money: I dreamed, planned, read books and told everyone I knew about this trip.

I bought all of the necessary equipment: plane tickets, train tickets, the perfect backpack. I spent hours online searching for hostels and reading what other backpackers had written about their own travels.

This trip was supposed to be the most fun and exciting thing I had ever done; this trip it was supposed to change my whole life too.

So, a few days ago, as I sat at a café outside the Tower of London, I felt very disappointed. I had run out of steam.

I did not have the energy or the attention span to go to one more museum, to listen to one more guided tour about the amazingly significant history of an old fort, church or painting, to strike up a conversation with one more complete stranger in hopes they spoke English.

Two weeks into the most amazing adventure of my life and all I wanted to do was sit in a park and read my book, watch the people pass by, and maybe jot down a few thoughts in my journal.

Wouldn't it be a waste of time, money and an amazing continent? What would my friends and Technician readers think when I said, after two short weeks, I have grown tired of adventures? I just wanted to take a nap.

Fortunately, I remembered the words of a wise friend. Before I left the United States he told me to "feel the freedom" while I was in Europe.

I did not think of it when he first said this, thinking his advice was obvious. Weeks later, sitting in that café, I saw it in a new light.

There was a reason I worked so hard to come to Europe and it was not so that I could see every museum ever built or go on every tour ever given. I came so that I could live the way I wanted in a land full of amazing ways to live.

Museums are great, guidebooks can be very useful and tours are often pretty darn interesting but you can experience all that stuff while surfing the Internet.

I've found that traveling is more than learning how to keep all of Henry VIII's wives straight or walking the crosswalk at Abbey Road.

Traveling is about wearing the same pair of socks three days in a row and not always knowing where you are going to sleep that night and if that place might happen to be a train station because you up and decided to go to the Netherlands for a while.

It is about planning ahead as little as possible and appreciating what you experienced, whether it was the congregating art students on the lawn of the Tate Modern or the beekeepers at the Tower of London.

Caroline can be reached at cemonday@ncsu.edu

Today's answers

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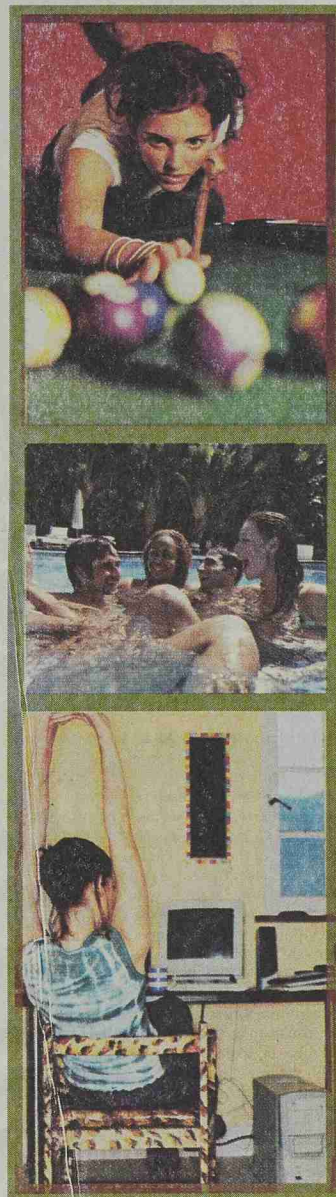
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RALEIGH

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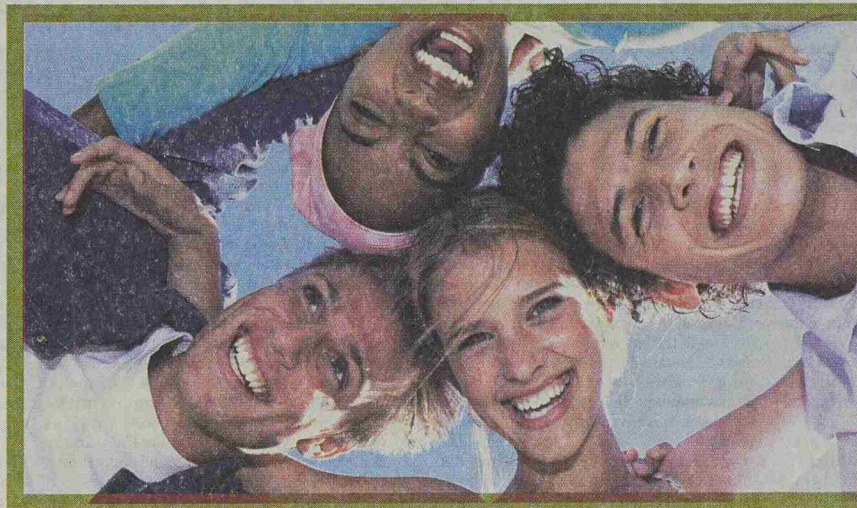
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Wolfpack Weekend

Track & Field

At the NCAA Championships held last weekend in Sacramento, Calif., three N.C. State athletes earned All-American recognition. Senior Andy Smith finished third in the steeplechase, his third All-American. Ebony Foster's fourth-place finish in the 100-meter hurdles earned All-American recognition. Julia Lucas, with a time of 16:47.04, finished eighth in the 5000-meter.

Men's Golf

In the North Carolina Amateur, held last weekend in Asheville, junior Jerry Richardson finished one under par to win the championship. His 72-shot performance in the fourth and final round proved to be crucial, as he eclipsed Mike Goodes, the leader after three rounds, on the final three holes.

Women's Golf

Monday, senior Lorraine Ballerano qualified for the Southern Amateur Championship, held in Savannah, Ga., with a 76-shot performance at Dear Creek Course at the Landings Club. She placed 27th and began competition in the 36-hole championship round Tuesday.

Men's Swimming

At the Ultra Swim competition held in Charlotte, Cullen Jones and Dan Velez both finished in the top 10 of their respective events. With a time of 23:10 in the 50-meter freestyle, Jones' performance was good enough for second. Velez' time of 1:06:38 in the 100-meter breaststroke earned him sixth place, and he finished 10th in the 200 with a time of 2:26:03.

SOURCE: NCSU MEDIA RELATIONS

GAMES

continued from page 8

that will be participating in the events this year," Hobgood said. "We have a 3-year old that will take part in Gymnastics and we have an 81-year old that will participate in Track and Field."

West said the games are off to a good start and is pleased with the participation thus far.

"Participation is up this year," West said. "We have 57 teams that are signed up for hockey. That is great but it's just really surprising because of what is going on in the NHL with the lockout and everything."

Mike Baxter, a senior and former club ice hockey player, is a director of one of the local adult hockey leagues. He is part of the group that has led to the increased interest in the tournament.

"My job is that I'm the director of one of the local adult hockey leagues," Baxter said. "They brought the State Games to Cary, so we decided to get a team together to participate in the event."

He said practice and preparation for the games has been consistent with his team's normal practice.

"We play once a week anyway

so we really haven't changed much concerning how much we play," Baxter said. "The only thing that we have done is picked up a few guys from some other teams."

Erin Fontaine, a junior majoring in biochemistry and biological sciences, participated in the State Games a few years ago and said she looks back at the experience as a positive one.

"I played softball a couple of years ago in the State Games," Fontaine said. "They had a really nice setup. A lot of people participated in the events and they had a lot of fans out there too. The food was also really good."

Even though the State Games began on June 4th, the Opening Ceremonies, which will be highlighting the Championships weekend, will not be held until June 24th at the SAS Soccer Park in Cary.

The Championships Weekend, which includes the final three days of the event, includes 16 events.

"We like to put the Opening Ceremonies at the end because that is when the most exciting activities go on," West said. "The championships of the majority of the events are held during this weekend and the kids around the area love to participate in the ceremonies."

IAN

continued from page 8

and today.

It was Navarre native Miguel Indurain's record of five consecutive Tour de France victories that Lance Armstrong broke in 2004, and more recently displayed with 19-year-old Rafael Nadal's crowning achievement in the French Open title June 5. The Spaniard was only the second player ever to win in his debut of the Paris Grand Slam event.

Nadal, after placing the appropriately-named Musketeers Cup like a crown on his head, jumped into the crowd to shake the hand of Spain's King Juan Carlos, an avid sailor and sports fanatic in his own right. The King's govern-

ment fully supports Madrid 2012 and the revamp of Valencia's waterfront by 2007.

And when I walk out of this Internet cafe underneath the Roman-laden aqueduct of Segovia, I know I'll pass through a herd of 12-year-old niños playing sala (think mini soccer) in the streets and enter a bar amongst talk of the Spanish national team's qualifying odds for the World Cup in Germany next summer. It's a proud and vibrant lifestyle in the Iberian Peninsula, nothing less.

Now if you'll excuse me, Maria surely has one of her 40 rabbits cooked and seasoned for our dinner tonight.

Ian can be reached abroad at
ianj@technicianonline.com

ELITE

continued from page 8

Beach Pumas, the team improved its record to 5-1-1 and moved to second place in the Mid-Atlantic division of the PDL.

According to King, all of the pieces seem to be there for the Elite and that is what has led to their success.

"Pretty much everything you

want in a team is here," King said. "You've got the best players from each of the rival schools. Each player is bringing something to the table and we're putting it together and we're 5-1."

The only loss for the Elite came at the hands of the Richmond Kickers May 27. However, the team will look for some revenge Friday when it takes on Richmond at SAS Soccer Park.

To place a classified ad, call 919.515.2029 or fax 919.515.5133

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1 Bleating bunch	6 Post Alexander	10 Lewin and Gershwin	14 Perfect	15 Burden	16 Dreadful	17 Synthetic fabrics	19 Composer Porter	20 Year type	21 Allied by kinship	23 Ovine party sauce?	27 Tranquil	28 Verdi opera	29 Significant time	31 Made further remarks	32 Module classroom	33 Unwraps	37 D.C. bigwig	38 Winter destination, often	40 Amtrak stop	43 Last	44 Russian capital	46 Abdul or Vogel	49 Road base	51 Cradle call	52 Purposeful short trip	54 Cash for self-indulgence	57 One charged with a crime	59 Thunderclap	60 Madeline of "Blazing Saddles"	61 Holding in abeyance	66 Revise for print	67 Cooped joint	68 On your feet!	69 Lairs	70 Burn a bit	71 Maine town
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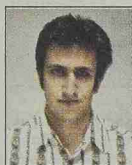
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COMMENTARY

Desportes from abroad

SEGOVIA, SPAIN — Section 15 didn't exist. It couldn't exist. We crossed six Atlantic Ocean time zones May 15 en route to Madrid, and



Ian Jester
Sports Editor

the jet lag left us in disbelief of our destination.

My study abroad group arrived dumbfounded at an intersection of corridors

beneath the Santiago Bernabéu — home to European soccer giants Real Madrid — without any reassurance that we indeed possessed May 21 tickets to the sold-out Madrid Derby that Saturday night.

A humble Spanish-speaking attendant pointed towards Section 15, when our eyes were focused towards the moon-lit nose bleed section. Seriously, the full moon would have a closer view than 21 N.C. State students this night.

But when we did find our Spaniard-less seats, my dream became a reality.

It was front row for some, closer to the freshly snipped pitch than a throng of 80,000 Spaniards behind us, and all but a measly crumble of whom were ready to witness the collapse of the south-side visitors, Atlético Madrid.

I found my seat just a few rows higher, but not more than 20 meters from two David Beckham corner kicks to come, each drawing subtle sighs of temptation and multiple Canon shots from my female companions. I paid enough attention to watch Beckham miss both chances, while primarily focused on finding a nearby Posh Spice.

Don't get me wrong. The experience was one to remember, easily removing the European football items from the life checklist.

But the game was less than inspiring.

Neither team had anything to gain or lose in the standings except pride, which translated into a goalless draw.

It was the worst result these passionate fans could have dreamed of. Drums and trumpets never reached their potential, and fans carrying banners and flags of a century-old rivalry suffered 90 minutes without the rampaging thrill of "GOALLL" ringing through their ears.

There is a passion for sports in Spain unlike anywhere else — a religion second only to Catholicism, where tapas and cafés con leche precede bullfights and Primera Liga soccer matches and three daily national newspapers cover nothing but sports.

The country has exploded onto the international sports scene in the past 25 years, hosting the World Cup in 1982, the Summer Olympics in Barcelona in 1992, and will set sail the 32nd America's Cup from the coastline of Valencia in 2007.

But what the country is most intrigued about is the opportunity to host another Olympics. Madrid is one of five candidates for the competition in 2012, the selection of which will be decided July 6-9 in Singapore.

And why not Madrid? It's the only candidate city not to have hosted the games, and Spaniards are well known in the sports world of yesterday

IAN continued page 7

MEN'S SOCCER



Senior John Queeley navigates the ball around Bill Brindley of the Palm Beach Pumas. The Raleigh Elite won Friday's game against the Pumas 2-1.

DAN TERNES/TECHNICIAN

Playing among the Elite

Stephen Federowicz
Staff Writer

The quintet of teammates stood cool, calm and victorious on the neatly-trimmed grass of SAS Soccer Park while post-game stadium anthems played in the background.

This is not a flashback to the fall soccer season, but a scene from another summer win for the Raleigh Elite.

The Elite, a member of the United Soccer League's Premier Development League (PDL), includes several college standouts and prospects, many from local area and ACC schools such as Duke, Wake Forest, North Carolina, Virginia Tech, and N.C. State.

The State players on the roster are Forward Aaron King, defenders John Queeley, El-Hadje Cisse, and Rami Ghanayem and midfielder Santiago Fusiler.

Ghanayem, a junior, said even though he is playing with guys he competed feverishly against during the ACC season, the grudges do not carry over to the field

because they all have one thing in common.

"The love of the game," Ghanayem said. "It brings us together."

According to Cisse, getting an opportunity to play with talent from other universities can only be positive and improve one's game.

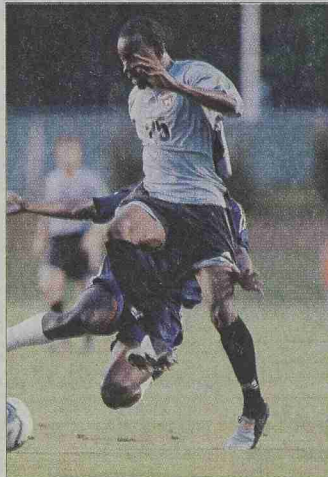
"It just a good experience to play with some good players," Cisse said.

For King, the leading goal scorer for the Elite, competing in the summer league gives the players a chance to tune up their game and stay active in the off-season.

"Its get you prepared for your season," King said. "You stay in shape instead of taking a big break."

He has continued his scoring streak from the fall season. The forward has scored nine goals in only five games with the team. King led State in goals during the 2004 campaign while earning team MVP honors.

With a win Friday night over the Palm



ANDY DELISLE/TECHNICIAN

ELITE continued page 7

Senior Aaron King leads the Elite in goals scored.

PACK'S ELITE

Member of the men's soccer team playing for the Raleigh Elite

EL-HADJE CISSE
sophomore | defender*

SANTIAGO FUSILIER
junior | midfielder*

RAMI GHANAYEM
junior | defender*

AARON KING
senior | forward*

JOHN QUEELEY
senior | defender*

*Positions played on N.C. Soccer Team

SOURCE: NCSU MEDIA RELATIONS & RALEIGH ELITE

State Games of N.C. come to Cary

Nicholas Jeffreys
Staff Writer

With 30 events taking place in a span of 23 days, the 2005 State Games of North Carolina has been a busy venue during June.

The State Games, which are hosted by the Town of Cary, began on June 4 and will run until June 26.

Cary will be the location for the Games again next year. As of late, the games have made two-year stays in a city before moving to another city.

"The past two years the event took place in Winston-Salem," State Games Marketing Coordinator Sherry West said. "The event will be held in Cary for this year and next year and then

we will take the show to Greensboro for the year after next."

Chuck Hobgood, president of the State Games, said he enjoys having the games in the Triangle area.

"We are very excited about bringing the State Games back to the Triangle," Hobgood said. "The Cary area is an excellent place to hold this great venue."

The games use an Olympic-style format and the games range from baseball and basketball to table tennis and taekwondo.

According to West, the Olympic-style format is geared more towards the award ceremonies rather than the actual play of the tournament.

"The Olympic-style format we use is really a big deal to us,"

West said. "We use the format more for the ceremonies and we want it to be something special for the participants. The winners each receive medals, first gets gold, second gets silver and third gets bronze—just like the Olympic Games."

With a wide variety of events, Hobgood said he hopes the games bring out a lot of people.

"We hope to have a good turnout this year," Hobgood said. "We expect to have around 13,000 to 14,000 participants and 20,000 spectators."

Age has proven not to be a limiting factor among participants, Hobgood said.

"We have a wide range of ages

U.S. Open back in North Carolina

In 1999 on the greens of North Carolina, golf fans witnessed Payne Stewart's championship shot on the 18th hole of Pinhurst No.2 course, mere months before his death in an airplane accident. This year's championship, which returns to No. 2 Thursday after a six-year absence, features two former N.C. State golfers — Tim Clark and Carl Pettersson.

Tim Clark

Birthplace
Durban, South Africa

Age
29

Turned Professional
1998

Joined PGA Tour
2001

Career Highlights

- 2003 President's Cup Team Member
- Won 2002 South African Open
- 1996 Member of South Africa's World Championship team
- 1993 South African Junior Player of the Year

Carl Pettersson

Birthplace
Gothenburg, Sweden

Age
27

Turned Professional
2000

Joined PGA Tour
2003

Career Highlights

- Finished 2nd in 2003 Buick Invitational
- Won the 2000 European Amateur Individual Championship
- Seven top 10 finishes in 2002 European Tour.

SOURCE: NCSU MEDIA RELATIONS AND USOPEN.COM