

# BULLETIN

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NC STATE UNIVERSITY

News for the North Carolina State University Community



Artist rendering of a proposed roundabout in front of Patterson Hall

## Hillsborough St. vote goes round and about

A safer, more attractive Hillsborough Street with better parking, dining, and shopping could be a reality in the near future, if a proposal currently before the Raleigh City Council is approved.

The plan would renovate the stretch of Hillsborough from Gardner Street to Logan Court, spanning from D.H. Hill Library to Winston Hall. The street would be converted into two lanes, separated by a wide median for increased pedestrian safety and roundabouts to improve traffic flow at the Horne Street and Logan Court intersections.

Plans for reconstruction of the street have the support of a broad coalition that includes residents of the neighborhoods on the north side of Hillsborough, business owners, Hillsborough Street Partnership, NC State students and university administration. The voters of Raleigh have demonstrated their support with the passage of a referendum providing \$3 million for Hillsborough Street.

“Our hope is for a pedestrian-friendly, economically viable corridor,”

SEE STREET, PAGE 2

## Filtering out disease

*Resin beads block harmful prions during blood transfusions*

For the first time, experimental results indicate that it is possible to use a resin filter to remove harmful prion proteins from the blood of an infected animal, a finding that has major implications for the removal of infectious prion proteins – the agents associated with variant Creutzfeldt-Jakob disease, mad cow disease, scrapie and other prion diseases in animals – during blood transfusions.

Dr. Ruben Carbonell, Frank Hawkins Kenan Professor of Chemical and Biomolecular Engineering and director of the Kenan Institute for Engineering, Technology and Science at NC State, and scientists from the University of Maryland at Baltimore’s VA Medical Center, the American Red Cross and ProMetic BioSciences, a biotechnology company, developed small resin beads with molecules that are able to bind to harmful prion proteins. The beads serve as an adsorption filter, capturing the bad proteins and allowing other blood components to be effectively cleansed of the prion-disease-causing agents.

A paper describing the research was published in the Dec. 23/30 version of *The Lancet*.

In prion diseases, which are called transmissible spongiform encephalopathies, prion proteins unfold and cause plaques in animal and human brains. Transmission of prion diseases has impacted the availability

and cost of blood donations, especially in Europe.

In the *Lancet* study, the researchers took the blood of scrapie-infected hamsters and removed the white blood cells using a device called a leukofilter. The leukoreduced blood was then passed through another filter containing the new resin particles engineered to capture the prion proteins. A group of disease-free hamsters was inoculated with the blood that passed through the leukofilter only. A second group was inoculated with the blood that passed through both the leukofilter and the prion-capture filter.

The researchers found that while leukoreduction itself removed a good deal of the bad proteins – approximately 72 percent – none of the nearly 100 hamsters inoculated with the leukoreduced, resin-filtered blood were infected with scrapie by the end of the 550-day test. Fifteen of 99 hamsters receiving leukoreduced blood not passed through the resin filter were infected with scrapie.

After the experiment was completed, the researchers analyzed the brains of hamsters still alive at the end of the testing period. No evidence of scrapie was discovered in brains of hamsters that were inoculated with the resin-filtered blood.

SEE FILTER, PAGE 4



Dr. Ruben Carbonell examines a filter filled with resin beads that were effective in removing harmful prion proteins from the blood of infected animals. The finding has major implications for the removal of prion proteins during blood transfusions. (Photo by Roger Winstead)

## Gray to examine ‘team science’ research approach at AAAS conference

Assembling teams of top scientists from varying disciplines and backgrounds to tackle research projects may seem like the most logical approach for generating scientific breakthroughs, but that’s not necessarily the case, according to an NC State professor.

Researchers working in what’s known as a “team science” approach have produced important results and

discoveries, but the factors associated with such findings can be as complex as the research that goes into making them.

“The concept of ‘team science’ is a promising venture, but the conditions under which the results are generated are a lot more complicated than most people realize,” says Dr. Denis O. Gray, professor of psychology in the College of Humanities and Social Sciences.

Gray will summarize some of the organizational and other factors that impact the success of scientists working in team-oriented research projects at the annual meeting of the American Association for the Advancement of Science (AAAS), to be held Feb. 15-19 in San Francisco, Calif. Gray will discuss “Team Science: Analyzing the Interactions and Outcomes” during a symposium on “Issues in Team Science”

on Saturday, Feb. 17, at 3:45 p.m. PST.

“Team science” refers to multi-partnered, multi-disciplinary and sometimes multi-institutional research partnerships designed to bring together specialized researchers to work on specific facets of a larger project or study. Many of these partnerships are established as

SEE AAAS, PAGE 2

# Pulitzer prize-winning journalist to address Darfur conflict

Nicholas D. Kristof, a Pulitzer Prize-winning journalist and columnist for *The New York Times*, will address the ongoing conflict in the Darfur region of western Sudan during a public lecture on Tuesday, Feb. 6, at 7:30 p.m. in Nelson Hall Auditorium (Room 3400).

Kristof's talk, titled "The First Genocide of the 21<sup>st</sup> Century: Report on Darfur," is free and open to the public.

Kristof, who has written for *The New York Times* since 1984, is generally credited with bringing the Darfur tragedy to the attention of the American public. In 1990, he and his wife, Sheryl WuDunn – also a *Times* journalist – won a Pulitzer Prize for their coverage of China's Tiananmen Square democracy movement. In 2006, Kristof won a second Pulitzer Prize for commentary. Kristof

has lived on four continents and traveled to more than 120 countries.

On Monday, Feb. 5, a panel discussion titled "Perspectives on the Darfur Crisis" will be held in room 232-A of Withers Hall at 7:30 p.m. The panel will be moderated by Dr. Craig Brookins, director of Africana Studies at NC State, and will include Dr. Andrew Reynolds, associate professor of political science at the Uni-

versity of North Carolina at Chapel Hill; U.S. diplomat Haywood Rankin; hydrogeologist Mansour Malik; and Darfur activist Scott Sutton. The panel discussion is free and open to the public.

Kristof's lecture and related events are sponsored by NC State's School of Public and International Affairs, the Park Scholarships Program and the political science club. ■

## Street

CONTINUED FROM PAGE 1

Chancellor James Oblinger said. "We want Hillsborough Street to be a vibrant historic area, where people can easily access dining, shopping and other amenities."

The Raleigh City Council, however, continues to debate the issue and has tabled a vote at each of the last several Council meetings. The plan is scheduled to be considered again at the Feb. 6 meeting. City Planning Director Mitchell Silver will present the results of additional study that considers buried utility lines, more on-street parking and "opportunity spots" along the street where new activities might be added to the mix of restaurants and retail. Silver told the *News & Observer*, "We're using an economic development lens, not a roundabout lens."

Engineers hired by the city to draw up the plans have proposed roundabouts to efficiently manage traffic, help protect pedestrians and add 63 more on-street parking spaces.

There is a high level of pedestrian traffic, mostly students, on Hillsborough in front of the university. Studies have shown that slowing the traffic through

this stretch could diminish the possibility of significant pedestrian injuries.

Critics of roundabouts have argued that the primary function of Hillsborough Street is to serve as a thoroughfare west from downtown. They contend that the new traffic plan would create a bottleneck and, instead of economic revitalization, would choke off businesses.

NC State students have expressed their strong support of the reconstruction of Hillsborough Street and plan to rally at the council chambers on Feb. 6. Student Body President Will Quick spoke during the council meeting on Jan. 23.

"Roundabouts are the best way to improve safety along Hillsborough Street," Quick said.

"NC State is in full support of the plan to begin the reconstruction of Hillsborough Street," said Charles Leffler, vice chancellor for finance and business and the university's representative at City Council meetings. "With its great historical significance to the city, we want to see Hillsborough Street restored to its former glory. Protecting the lives of our students, faculty and staff who cross this street daily is of even greater importance. We know

that a strong retail and mixed-use presence is essential to reviving the street and, if retail is to survive, more convenient street parking must be added. The proposed roundabouts are critical to the redevelopment of Hillsborough Street as more than just a busy traffic thoroughfare."

He added, "NC State has been a strong proponent of improvements to Hillsborough Street and has made intentional contributions to this effort through cost-sharing studies, the construction of the Pullen Road prototype roundabout, and significant investment of time and resources."

The university also has offered to include the North Hall property as part of the redevelopment effort and is prepared to commit \$250,000 in physical improvements in conjunction with construction of the roundabout at Horne Street. The university also has been sensitive to maintaining the character of the street and has chosen not to acquire or develop property along the street for office space or university parking.

"None of these goals will be accomplished without the City Council's approval to proceed with the proposed street reconstruction," Leffler said. ■

## AAAS

CONTINUED FROM PAGE 1

government-funded organizational structures called cooperative research centers or, more simply, centers.

Each center is as diverse as its members and organizational ties. Centers range in size from small to very large, vary in their organizational makeup from formal to informal, stretch across physical and geographic boundaries, and reach across various sectors such as government, industry, non-profits, and colleges and universities.

"The assumption behind this approach is that you can conduct better science," says Gray, who has studied the organization and effectiveness of such centers for the past 20 years as part of the National Science Foundation's Industry-University Cooperative Research Program. "The idea is that you would be able to do science that would produce results that were superior to what you would obtain if you were funding many different individual investigators. The team approach does involve many researchers, but it's an integrated effort."

Gray says simply asking, "Are centers effective?" is the wrong question. The more appropriate question is "Under

what circumstances are centers effective or ineffective?"

Drawing from inside observations as an embedded social scientist in one such center, the Center for Environmentally Responsible Solvents and Processes, Gray has conducted several studies that outline the complexities associated with the results generated by a team approach.

One study found that research expectations differed in partnerships between a university and a consortium of large companies, rather than with an individual company. The consortium team was content with producing relatively fundamental research findings, whereas the individual company-university team was more interested in seeing the development of a patent or a product that could be marketed.

Another study, conducted by a doctoral student from the College of Design, found that the physical layout and design of laboratory research and office space significantly impacted the amount of interaction, collaboration and ultimately the outcomes of the team members. In well-planned and designed facilities, researchers would often bump into one another as they moved about the building, which often resulted in a research-related discussion. The researchers reported later that they preferred to share information

## Alumni Association presents awards

The NC State Alumni Association honored 17 distinguished and two honorary alumni during its annual "Evening of Stars" ceremony held on Jan. 26 at the Dorothy and Roy Park Alumni Center.

The awards included:

### Meritorious Service Award

Ed Vick

Lynn Eury

### Honorary Alumnus and Alumna

Curtis and Jackie Dail

### Ronnie Shavlik Award of Merit

Bobby Speight

### Outstanding Young Alumnus

Marcus Belvin

### CALS

Kendall Hill

David Thompson

### College of Design

Charles Flink

### College of Education

Thomas Houlihan

### College of Engineering

Bill Angelo

Charles Manning

Barbara Mulkey

### CHASS

Benny Suggs

### College of Management

Gary Massey

### College of Natural Resources

Earl Deal

### PAMS

Donald Johnson

### College of Textiles

Steve Zeis

### College of Veterinary Medicine

Randy Jones

For biographical details on the award winners, visit <http://news.ncsu.edu>. ■

face-to-face, and they found those impromptu discussions very productive.

With a recent trend of creating such teams from members of different institutions from different geographic regions, other challenges arise. Team members who are spread out among several institutions may find it challenging to truly collaborate and might spend a good deal of their time coordinating times for correspondence rather than actual research.

"It's clear that there are some benefits from "team science," but oftentimes those benefits are contingent upon the way the partnership is set up, who is involved and how it is executed," Gray says. ■

## BULLETIN

North Carolina State University  
Raleigh, North Carolina  
Dr. James Oblinger, Chancellor



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[www.ncsu.edu/BulletinOnline/](http://www.ncsu.edu/BulletinOnline/)



Under a sign showing how long they have battled the disease, breast cancer survivors parade to a standing ovation at Reynolds Coliseum during halftime of the NC State women's basketball game with Boston College on Sunday, Jan. 25. The game was part of "Hoops for Hope," which raised nearly \$44,000 for breast cancer research. (Photo by Tim Peeler)

## Cancer survivors take center stage at Hoops for Hope fund-raiser

They walked onto the floor with tears streaming down their face. They were in groups, separated by numbers. And Sunday, they were the honored guests at Reynolds Coliseum, in the second annual Hoops for Hope, a basketball game and fund-raiser for the Susan G. Komen Foundation.

NC State coach Kay Yow, who has been fighting another well-publicized battle with breast cancer, gladly ceded the stage to the others. She high-fived her fellow survivors as she walked onto the court prior to the game. And she embraced them as she left the court following the game.

But in between, as NC State and Boston College went to their lockerrooms for halftime, the survivors walked, one-by-one, onto the floor where so many Wolfpack champions have performed over nearly six decades.

On another day, they may have been overshadowed by some other high-profile people in the building.

New NC State football coach Tom O'Brien sat in the end zone for the first half, or at least as long as he could before he had to catch a flight for a recruiting visit. Former Pittsburgh Steelers coach Bill Cowher sat on press row with his wife, Kaye Young Cowher, who played basketball for the Wolfpack under Yow. Golf legend Peggy Kirk Bell — one of the founding members of the LPGA, the host of this year's US Women's Open at Pine Needles Golf and Lodge in Southern Pines and a long-time friend of Yow's — watched the game from press row.

And dozens of former Wolfpack women players who helped Yow succeed during her Hall of Fame career of nearly 700 victories were sitting in prime locations on the lower level. The game was the culmination of a huge reunion weekend, organized by former players Debbie Antonelli and Kristen Gillespie, that included an alumni game Saturday morning and a reunion banquet at Vaughn Towers at Carter-Finley Stadium.

But all of the 7,971 people in attendance, as well as the players and coaches for both

teams, were essentially there for support, to celebrate as hundreds of breast cancer survivors paraded across the floor, many overcome with emotion.

Yow had her day on Thursday, when she returned to the sidelines against Virginia after missing 16 games while undergoing chemotherapy treatments. Her team provided a exciting win over Virginia, which is coached by another cancer survivor, Debbie Ryan.

So Sunday, the coach was content to be the biggest booster in the gym for the work of the Susan G. Komen Breast Cancer Foundation, Triangle Chapter, which was the recipient of the \$43,820 check from ticket sales and proceeds of the silent auction held before the game.

"This was such an emotional game for me, because it stands for hope," Yow said afterwards. "Research, which is what the Komen Foundation supports, means hope. If you aren't raising money and doing research, then you are not finding any answers."

"Raising this money is very important to me. All the survivors and those who are still battling cancer have gained strength and courage. We are inspired and uplifted. We are given hope. We know we are not in this fight by ourselves. We are fighting together and supporting each other. And all the people who are here who aren't battling cancer, they are supporting us. They are here because they care, and it makes a great difference for all of us."

And there was inspiration of all kinds on the court Sunday. Wolfpack senior center Gillian Goring, who has fought many injuries through her career at Connecticut and NC State, had a career high 20 points and 12 rebounds in the 64-46 Wolfpack victory.

"I just decided that I needed to work hard," Goring said. "My nagging little injuries aren't anything to what Coach Yow has been through. I just put in my mind to work hard all the time."

And that is the kind of inspiration Kay Yow, who was first diagnosed with cancer in 1987, has been to so many people for nearly 20 years. ■

## BULLETIN BOARD

### Forum to address women in higher education

A mini-conference that will examine the contributions and leadership of women in shaping the future of higher education is slated for today at 3 p.m. in the McKimmon Center.

Kay Moore, dean of the College of Education, and Marcia Gumpertz, assistant vice provost for faculty and staff diversity, will lead the forum, titled "Transforming Higher Education: Building a Women's Agenda."

The mini-conference will consist of a panel discussion followed by interactive agenda-building and a reception. Panelists include female faculty and administrators from area universities, with students from NC State's Women in Science and Engineering program and Wolfpack Women in Science sharing posters of their research.

The event is free and open to the public. For more information visit <http://ncsu.edu/diversity/WomensAgenda.php>.

### Poetry contest accepting entries

Entries are being accepted for the 2007 NC State Poetry Contest. The contest is open to any resident of North Carolina except tenured professors in the University of North Carolina system, poets with a published book and previous winners. Poems that have been previously published will not be considered. Winners will receive the Brenda L. Smart Prize for Poetry, an award of \$500. Entries should be submitted to Campus Box 8105 by Thursday, March 1. The awards ceremony will be held on March 28, and is free and open to the public. For more information, visit <http://english.chass.ncsu.edu/creativewriting/poetrycontest.html>.

### DELTA offers online instruction workshops

DELTA offers training for NC State faculty, staff and graduate students engaged in developing online instruction. These workshops cover an expanded range of topics pertaining to instructional technology, Web page development, and the Vista and WolfWare learning management systems.

Some of the many workshops being offered this semester are listed below. Workshops are held in the ITTC Labs in D.H. Hill Library unless otherwise noted:

- Vista Starter Workshop, Tuesday, Feb. 6, 9-11 am
- An Introduction to the Learning Technologies Toolkit at NC State, Thursday, Feb. 8, 1-2:30 p.m.
- Using WolfWare to Support Instruction, Thursday, Feb. 8, 2:45-3:45 p.m.
- The Concepts and Techniques of Universal Web Design, Friday, Feb. 9, 9-11 a.m.

For a complete listing of workshops and registration information, visit <http://delta.ncsu.edu/workshops> or contact the Instructional Services group at [learntech@ncsu.edu](mailto:learntech@ncsu.edu) or 513-7094.

### Search committee for advancement VC announced

The search committee to find the university's next vice chancellor for advancement has been selected. The 10-person committee met for the first time on Monday, Jan. 22, to find a replacement for Terry Wood, who will retire in 2008.

The committee members include: Charlie Leffler, vice chancellor for finance and business and co-chair; Johnny Wynne, dean of the College of Agriculture and Life Sciences and co-chair; Nina S. Allen, chair of the faculty; J.C. Boykin, chair of the Staff Senate; Suzanne Gordon, Board of Trustees Development Committee representative and CIO and vice president for information technology at SAS; Becky Bumgardner, executive director for university development; Dwayne Greene, Student Aid Association; Joanna Johnson, executive director of college advancement in the College of Humanities and Social Sciences; Eugene Langley Jr., NC State Foundation Board and Resource Management Associates; Will Quick, student body president; and Paul Ridgeway, Alumni Association Board. Frances Milks, assistant to the chancellor, will provide staff support.

In his charge letter to the committee, Chancellor James Oblinger said the search will be "national in scope" and asked the committee to "recommend three to five unranked candidates" for his final decision.

For more information, visit [www.ncsu.edu/advancement/vcsearch/](http://www.ncsu.edu/advancement/vcsearch/)

### Submissions sought for film festival

Budding filmmakers are encouraged to submit an entry into the fourth annual Pinwheel Film Festival, which will take place on Saturday, April 21, at Witherspoon Campus Cinema. The film should not exceed 30 minutes in length, and must be submitted to the Cinema Box Office at Campus Box 7318 by March 30. The event, sponsored by the University Activities Board, is free and open to the public. More than 25 local and independent films were showcased at last year's event. For more information, including entry criteria, visit [www.ncsu.edu/cinema/pinwheel](http://www.ncsu.edu/cinema/pinwheel).

### College of Textiles to hold open house

The College of Textiles will hold its annual open house on Saturday, Feb. 10, from 10 a.m. to 2 p.m., at its Centennial Campus building. For more information, visit [www.tx.ncsu.edu/student\\_services/openhouse/](http://www.tx.ncsu.edu/student_services/openhouse/) or call 515-3780.

## February

## 2 Friday

**Women's Tennis Match**

Wolfpack vs. Penn State University, 4 p.m., J.W. Isenhour Tennis Center

**Gymnastics Meet**

Wolfpack vs. University of Maryland, University of North Carolina-Chapel Hill and Towson University, 7 p.m., Reynolds Coliseum

## 3 Saturday

**Rifle Match**

Wolfpack vs. The Citadel and Virginia Military Institute, all day, Wake County Range, Holly Springs

**Men's Basketball Game**

Wolfpack vs. University of North Carolina-Chapel Hill, 3:30 p.m., RBC Center

## 4 Sunday

**Women's Tennis Match**

Wolfpack vs. Florida International University, 10 a.m., J.W. Isenhour Tennis Center

## 5 Monday

**Entomology Seminar**

"Vectorial Components of Malaria Transmission in Southern Zambia," Dr. Doug Norris, Johns Hopkins Malaria Research Institute, 11 a.m., 2405 Williams Hall

**Ag/Resource Economics Seminar**

Dr. Stephanie Schmitt-Grohe, Duke University, 3 p.m., 4210 Nelson Hall

**CHASS Lecture**

"The Evolution of Useful Things," Dr. Henry Petroski, Duke University, 5:30 p.m., Room 1025, Engineering Building II

**Women's Basketball Game**

Wolfpack vs. Florida State University, 7 p.m., Reynolds Coliseum

## 6 Tuesday

**Plant Biology Lecture**

"Monsanto Today: A Corn Breeder's Perspective on Opportunities for Synergy and Possible Future Employment," Dr. Donn Cummings, Monsanto, 4 p.m., 101 David Clark Labs

**CHASS Lecture**

"First Genocide of the 21st Century: Report From Darfur," Nicholas Kristof, *New York Times*, 7:30 p.m., Nelson Hall Auditorium

## 7 Wednesday

**Staff Senate Meeting**

Regular meeting No. 7, 10 a.m., Faculty Senate Chambers, D.H. Hill Library

## Calendar Submissions

NC State-sponsored events are published in the calendar. Submissions should state the time, date, place, sponsor and title of event, the name of the speaker and his or her affiliation, the admission cost and the name and telephone number of the contact person.

Send items to **Calendar Editor, NC State News Services, Box 7504, or fax to 515-2556**. The deadline is noon, Tuesday, 10 days before the publication date. For the Feb. 23 calendar, the deadline is Feb. 13.

For more information about *Bulletin* submission policies, go to the *Bulletin Online* at:

<http://www.ncsu.edu/BulletinOnline/>.

**Soil Science Seminar**

"Effects of Land Use and Turf Management on the Community Structure of Ammonia Oxidizing Bacteria," Emily Dell, NC State, 3:40 p.m., 2215 Williams Hall

**Wrestling Meet**

Wolfpack vs. University of North Carolina-Chapel Hill, 7 p.m., Reynolds Coliseum

## 8 Thursday

**Career Fair**

Sponsored by the College of Humanities and Social Sciences and the College of Management, 10 a.m.-4 p.m., Talley Student Center Ballroom

**Biochemistry Seminar**

"Airway Epithelial Responses in Allergic Asthma: Reparative and Inflammatory," Dr. Linda Martin, NC State, 4 p.m., 128-A Polk Hall

**Women's Basketball Game**

Wolfpack vs. Clemson University, 7 p.m., Reynolds Coliseum

## 9 Friday

**Molecular Biotechnology Research Symposium**

"Into the Natural Microbial World," Dr. Norman Pace, University of Colorado; "Cancer Detection and Therapy," Dr. Shelton Earp III, University of North Carolina-Chapel Hill; "The Rice Blast Fungus Genome Project," Dr. Ralph Dean, NC State, 1:30 p.m., McKimmon Center

**Baseball Game**

Wolfpack vs. College of William & Mary, 3 p.m., Doak Field

## 10 Saturday

**Women's Tennis Match**

Wolfpack vs. Yale University, noon, J.W. Isenhour Tennis Center

**Baseball Game**

Wolfpack vs. College of William & Mary, 2 p.m., Doak Field

## 11 Sunday

**Baseball Game**

Wolfpack vs. College of William & Mary, 1:30 p.m., Doak Field

**Men's Tennis Match**

Wolfpack vs. University of Pennsylvania, 1 p.m., J.W. Isenhour Tennis Center

## 12 Monday

**Entomology Seminar**

"Genetic Manipulation of Pest Populations: An NCSU Program?" Dr. Fred Gould, NC State, 11 a.m., 2405 Williams Hall

**College of Management Lecture**

Wachovia Executive Lecture, Robert Niblock, chairman and CEO of Lowe's Home Improvement, 4:30 p.m., 3400 Nelson Hall

## 13 Tuesday

**Faculty Senate Meeting**

Regular meeting No. 11, 3 p.m., Faculty Senate Chambers, D.H. Hill Library

**Plant Biology Seminar**

"Evolutionary Pattern and Process in Parasitic Plants of Orobanchaceae," Dr. Andrea Wolfe, Ohio State University, 4 p.m., 101 David Clark Labs

**Men's Tennis Matches**

Wolfpack vs. East Carolina University, 1 p.m., and University of North Carolina-Greensboro, 5:30 p.m., J.W. Isenhour Tennis Center

## 14 Wednesday

**Soil Science Seminar**

"History of North Carolina Agriculture," Paul Lilly, NC State emeritus, 3:40 p.m., 2215 Williams Hall

**Men's Basketball Game**

Wolfpack vs. University of Maryland, 7 p.m., RBC Center

## 15 Thursday

**Zoology Seminar**

Dr. Will Kimler, NC State, 3:45 p.m., 101 David Clark Labs

## 16 Friday

**Baseball Game**

Wolfpack vs. Gardner-Webb University, 3 p.m., Doak Field

**Women's Basketball Game**

Wolfpack vs. University of North Carolina-Chapel Hill, 7 p.m., Reynolds Coliseum

## 17 Saturday

**Baseball Game**

Wolfpack vs. Gardner-Webb University, 2 p.m., Doak Field

**Gymnastics Meet**

Wolfpack vs. George Washington University, University of Nebraska, West Virginia University and College of William & Mary, 7 p.m., Reynolds Coliseum

## 18 Sunday

**Baseball Game**

Wolfpack vs. Gardner-Webb University, 1:30 p.m., Doak Field

**Wrestling Meet**

Wolfpack vs. Virginia Tech, 2 p.m., Reynolds Coliseum

**Men's Basketball Game**

Wolfpack vs. Virginia Tech, 4 p.m., RBC Center

## 19 Monday

**Entomology Seminar**

"Virtual Entomology," Dr. John Meyer, NC State, 11 a.m., 2405 Williams Hall

## 20 Tuesday

**Plant Biology Seminar**

"The N-Acylethanolamine (NAE) Regulatory Pathway in Plants," Dr. Kent Chapman, University of North Texas, 4 p.m., 101 David Clark Labs

**Logic/Cognitive Science Seminar**

"Philosophy, Intuition and Culture," Dr. Stephen Stich, Rutgers University, 4:30 p.m., 120 Withers Hall

**Center Stage Event**

Dayton Contemporary Dance Company, 8 p.m., Stewart Theatre. Tickets are \$24-\$28, <http://ticketcentral.ncsu.edu> or 515-1100

## 21 Wednesday

**Baseball Game**

Wolfpack vs. North Carolina A&T, 3 p.m., Doak Field

**Men's Tennis Match**

Wolfpack vs. Old Dominion University, 3 p.m., J.W. Isenhour Tennis Center

**Soil Science Seminar**

"Treatment of Recovered Groundwater Containing 1, 4 - Dioxane: Year-Round Phytovolatilization by Irrigating Stands of Deciduous and Coniferous Trees," Dr.

Ari Ferro, ENSR, 3:40 p.m., 2215 Williams Hall

## 22 Thursday

**Biochemistry Seminar**

"Tracking the Pattern of Evolution on the Tree of Life of Dogwoods," Dr. Jenny Xiang, NC State, 4 p.m., 128-A Polk Hall

**Zoology Seminar**

Dr. Ben Letcher, U.S. Geological Survey, 3:45 p.m., 101 David Clark Labs

**Music@NC State Concert**

"Wind Ensemble: Concert Band Invitational," 7 p.m., Stewart Theatre. Tickets are \$10, <http://ticketcentral.ncsu.edu> or 515-1100

## 23 Friday

**College of Management Event**

Enterprise Risk Management Roundtable, led by Randy Nornes, Aon Risk Services Inc., Chicago, 7 a.m., McKimmon Center. Admission is free, but registration required, <http://mgt.ncsu.edu/erm/roundtablesSchedule.php>.

**Music@NC State Concert**

"British Brass Band," 7 p.m., Stewart Theatre. Tickets are \$10, <http://ticketcentral.ncsu.edu> or 515-1100

## Ongoing

**Campus Cinema**

- "Caddyshack," Feb. 2, 10 p.m.; Feb. 3, 7 p.m.; free
- "The Departed," Feb. 2, 7 p.m.; Feb. 3, 9 p.m.; Feb. 4, 3 p.m.
- Superbowl XLI viewing party, Feb. 4, 6 p.m.; free
- "Peaceable Kingdom," Feb. 7, 8 p.m.; free
- "Hustle and Flow," Feb. 8, 7 p.m.
- "Borat: Cultural Learnings of America for Make Benefit Glorious Nation of Kazakhstan," Feb. 8 and 10, 10 p.m.; Feb. 9 and 11, 7 p.m.
- "The Blues Brothers," Feb. 9 and 11, 9:30 p.m.; Feb. 10, 7 p.m.; free
- "Beyond the Valley of the Dolls," Feb. 15, 7 p.m.; free
- "For Your Consideration," Feb. 15, 10 p.m.; Feb. 16 and 18, 7 p.m.; Feb. 17, 9:30 p.m.
- "Animal House," Feb. 16 and 18, 9:30 p.m.; Feb. 17, 7 p.m.; free
- "Casino Royale," Feb. 22, 7 p.m.; Feb. 23, 9 p.m.
- "Ghostbusters," Feb. 22, 10 p.m.; Feb. 23, 7 p.m.

**Crafts Center Gallery Exhibit**

"A Show for Students," Feb. 12-Mar. 21, Crafts Center Gallery

**Gallery of Art & Design Exhibit**

"The Natural World," through May 13, Gallery of Art & Design

**University Theatre Performance**

"Room Service," comedy, Feb. 14-17, 8 p.m.; Feb. 18, 3 p.m., Stewart Theatre. Tickets are \$14-\$16, <http://ticketcentral.ncsu.edu> or 515-1100

## Filter

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Aided by scientists in NC State's Nonwovens Cooperative Research Center, located in the College of Textiles, Carbonell and his colleagues have now developed a new filter to remove prions from donated blood during transfusions. The device takes donated blood from a blood bag, passes it through several "sandwiches" of the prion-capture resin beads placed between nonwoven fabric membranes, and places the filtered blood in a separate blood bag prior to infusion

into a patient or blood donation recipient.

The filter device, to be manufactured under the trade name P-Capt® Filter by MacoPharma, has received CE Mark regulatory approval in Europe.

Carbonell and his colleagues are now looking for ways of targeting other pathogens in blood such as Hepatitis A virus, B19 parvovirus and Hepatitis C virus.

The research was funded by Pathogen Removal and Diagnostic Technologies Inc. (PRDT), a joint venture of the American Red Cross and ProMetic BioSciences, owned in part by Carbonell and Dr. Robert Rohwer from the University of Maryland. ■