Walk this way
Campus and cities continue to strive for improved traffic safety

By Sharita Forrest
Assistant Editor

The UI campus and cities continue to strive for improved traffic safety. The UI police recently purchased two of the mobile signs, which are part of the Public Safety Division’s ongoing safety education and reinforcement initiatives aimed at drivers, pedestrians and bicyclists on campus.

The UI and the cities hope to develop a bike master plan in the near future, along with adopting “complete street” design and signage standards for the University District, said Pam Voitik, director of campus services. Complete street designs, which other communities have adopted and are part of a bill before the Illinois Senate, consider all users – vehicular traffic, pedestrians, bicyclists and people of all ages and abilities – when developing transportation routes. “Complete streets try to incorporate all modes of transportation in a safe way,” Voitik said. “They include high-visibility crosswalks so that pedestrians know where to cross and so they are more visible to motorists. They also include designated bicycle lanes on the pavement, not on the sidewalk, that identify where bicycles should be, and put bikes in situations where they behave as vehicles.”

In the coming weeks, UI bicycle patrol officers also will step up enforcement of traffic laws applicable to bicyclists.

“If you’re riding your bicycle on the street, you need to behave as a vehicle. You need to travel the right direction on one-way streets, signal when you turn, obey signs and signals, and yield to pedestrians when they’re in the crosswalks,” said Lt. Skip Frost. “A lot of the bicyclists aren’t complying.”

However, cyclists say that the existing bike path system is not conducive to compliance with traffic laws because it is confusing, doesn’t connect with the cities’ bike paths and doesn’t exist on some streets, Frost said.

YouTube co-founder to speak at commencement

Jawed Karim, a UI alumnus and a co-founder of YouTube, a popular video-sharing Web site, will be the speaker at the 136th UI Commencement on May 13. He will speak at the 10:30 a.m. and 2 p.m. ceremonies at Assembly Hall.

YouTube revolutionized the spread of video on the Web and, in turn, the transfer of information worldwide. “Although it wasn’t long ago that Jawed himself was receiving his degree, he already has had a huge impact on people around the world,” said UI Chancellor Richard Herman.

Karim attended Illinois from 1997 until 2000, when he joined PayPal to become one of its first developers. He completed his remaining credits at Illinois by correspondence and earned a bachelor’s degree in computer science in 2004.

In 2005, Karim co-founded YouTube with two friends, co-developing the concept and product. He subsequently acted as an adviser to the company and now is a graduate student in computer science at Stanford University. He is also an investor in early stage startups through Youniversity Ventures, an advisory venture fund he founded.

His concept for what became YouTube has changed the very nature of how video files are shared. We are proud he’s serving as our commencement speaker, and we know he’ll inspire this year’s graduating class to follow his example and become the leaders of their generation.”

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University Scholars Six Urbana faculty members are named University Scholars, the highest recognition bestowed on faculty members.

Future of Campus Research Board discussed

By Sharita Forrest
Assistant Editor

An article in the March 15 issue of Inside Higher Education raised concerns among some UI faculty members that the Campus Research Board, which helps support research by scholars at Urbana, could be disbanded or its funding reduced. Among some UI faculty members that the Research Board oversees three programs: a grant program that provides annual awards to faculty.

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“This long-standing and valued campus institution faces significant demands for reallocations. … The question before us is how to build and sustain excellence within the available budget.”

Funds for the Campus Research Board are primarily institutional money, with a small percentage of indirect cost reimbursements from funding agencies, supplemented by several endowments, including an endowment from the Arnold O. and Mabel Beckman Foundation. The research board oversees three programs: a grant program that provides annual awards to faculty.
By Shaffira Forrest

A new working group is being formed on the Urbana campus to explore issues involving the Global Campus Partnership, Chancellor Richard Herman said at the April 26 meeting of the Urbana-Champaign Senate. As work progressed on the Global Campus, Herman said, senators may be more aware that there is “an enormous desire for this campus to have its own working group” to explore fundamental issues.

The group will examine issues such as hiring policies for faculty members and the academic programs that will be provided through the Global Campus; it is expected that there will be “an enormous desire for this campus to have its own working group” to explore fundamental issues.

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April 5, 2007

Civic Commitment Research and Teaching Grants Introduced

The first set of innovative Civic Commitment Research and Teaching Grants was awarded this year. In January 2006, Chancellor Richard Herman charged his newly created Task Force on Civic Commitment in the 21st Century with identifying and sustaining curricular and co-curricular emphasis on advancing the public good. "The Task Force aims to research and teach in ways that help explore how we as a university will help students and society meet the challenges of modern citizenship. Last fall, the task force issued a call for proposals from faculty members and administrators to address this ambitious campus-wide goal. "The response to our request for proposals was extraordinary," said Jim Wescott, professor and chair of the department of landscape architecture, who also serves as chair of the task force. "We received approximately 70 proposals from a wide array of academic and administrative units. The RFP process helped task force members appreciate the depth of commitment to civic engagement that already exists on our campus." Proposal topics range from a speaker series promoting global citizenship for students who have put their lives at risk to lead their communities to a local K-12 program to help elementary students learn reading skills through science. "The projects that were awarded at least partial funding from the task force are listed below. For more information on the projects, go to www.news.uiuc.edu or use the RealPlayer search tool.

- "African American Cultural Program: Fine Arts and Radio Outreach to Low-income and At-risk Children Elementar" through Horace Mann," principal investigators: Nathaniel C. Banks, assistant dean of students, African American Cultural Center; Bruce D. Nishiyama, director, African American Cultural Center.
- "The Afya project," principal investigator: Itheda S. Harvey, kinesiology and community health; project team leaders: Ann Peterson, library and information science; Brenda Trofanenko, education science; Brenda Trofanenko, education science; Brenda Trofanenko, education science; Brenda Trofanenko, education science; Brenda Trofanenko, education science; Brenda Trofanenko, education science; Brenda Trofanenko, education science; Brenda Trofanenko, education science; Brenda Trofanenko, education science; Brenda Trofanenko, education science.
- "Building Teacher Capacity to Support Civic Leadership and Global Citizenship," principal investigator: Judith A. Kolodziej, director, Center for Community Engagement in the Global Environment; principal investigator: Helaine Silverman, anthropomorphology; project team leaders: Ronda Rayward, library and information science; Brenda Trofanenko, education science; Brenda Trofanenko, education science; Brenda Trofanenko, education science; Brenda Trofanenko, education science; Brenda Trofanenko, education science; Brenda Trofanenko, education science; Brenda Trofanenko, education science; Brenda Trofanenko, education science; Brenda Trofanenko, education science; Brenda Trofanenko, education science; Brenda Trofanenko, education science; Brenda Trofanenko, education science; Brenda Trofanenko, education science; Brenda Trofanenko, education science; Brenda Trofanenko, education science; Brenda Trofanenko, education science; Brenda Trofanenko, education science; Brenda Trofanenko, education science; Brenda Trofanenko, education science; Brenda Trofanenko, education science; Brenda Trofanenko, education science; 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Six academic professionals honored with CAPE award

By Rosana Ryan
News Bureau Intern

Six academic professionals received the 2007 Chancellor’s Academic Professional Excellence award at an April 3 ceremony and reception. Now in its 19th year, the award program aims to honor contributions made by academic professionals on campus. Recipients are chosen for excellence in their work, personal and professional contributions to their fields and the positive impact they have on colleagues, students and the public. Each award winner received $2,000, a $1,000 increase in base salary and a $1,000 one-time budget increase for their department.

Van Allen Anderson, associate director of the Medical Scholars Program and Technology, is an invaluable asset to the UI campus, according to his nominators. “Anderson has acquired a tremendous amount of detailed knowledge from his inner workings of the Beckman Institute since beginning his current position two years ago and is extraordinarily active in this job,” said Pierre Wiltzius, director of the Beckman Institute. “Van does not ‘work a job,’ he lives his work at the institute,” Wiltzius said. “On a regular basis Van puts in an extraordinary number of hours to get a certain assignment done on time. His work is always accurate and reflects the institute in the best light.”

Charles C. Colbert, retired vice chancellor for administration and human resources, said Anderson planned for the receipt and distribution of pharmaceuticals and other critical supplies in the event of a terrorist attack after Sept. 11. Anderson also was instrumental in planning for the response to bioterrorism with campus, community and regional units.

“He is most knowledgeable in environmental health and safety, and he is highly respected both inside and outside the university community,” Colbert said.

Anderson has worked at the UI for 24 years. His work has ranged from conducting safety and security reviews after Sept. 11 to assisting the campus in emergency preparedness for a bioterrorism attack.

Jon Gunderson, coordinator of assistive communication and information technology accessibility, Division of Disability Resources and Educational Services, has been instrumental in promoting accessibility for Campus Information Technology accessibility for the digital divide for persons with disabilities continues to widen. Gunderson has implemented a multi-pronged approach to addressing this problem. “Gunderson has served on the Accessibility Guidelines Committee of the World Wide Web Consortium. He led the group in the development of accessibility guidelines for browser technologies such as Internet Explorer and Netscape Navigator,” Wiltzius said.

“Umesh has made contributions to educational technology at K-12, undergraduate and graduate levels,” Cox said.

“Thakkar, who has worked at the UI for 11 years, goes beyond the call of duty, works long hours and provides important leadership for NCSA and the campus,” Cox said. “Thakkar has built strong relationships with the high environment of Jesse Thompson,” said Judith C. Giordan, program director at the NSF, said Thakkar works tirelessly for the K-12 program.

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CAPES. CONTINUED FROM PAGE 4
developed by Thompson, provide minority high school students with opportunities to visit the UI campus during the summer while learning about agricultural science careers, conducting real research and shadow- ing a mentor.

“Thompson is responsible for advertis- ing the programs and contacting guidance counselors and science teachers,” said Wayne Banwart, interim associate dean of academic programs. “He has made many trips to Chicago, southern Illinois and other states over the years to meet with potential students and their parents.”

Nominators said Thompson takes a per- sonal interest in each student, even after they are accepted into the college.

“In addition to successfully balancing the many administrative, management and technical aspects of his position, Dr. T. (as he is known to many of his students) is nev- er too busy, never too tired, never too dis- tracted to give generously of his attention, his time, and even his resources to a student in need,” Banwart said. “It is difficult to describe his passion and tireless efforts to sustain this program over the years”

Alvin D. Zwilling, specialist in project development and sustainability for UI Extension in the College of Agricultural, Consumer and Environmental Sciences, has made contributions beyond his regular job assignment for the past 25 years, according to his nominators.

“He has been singularly successful in expanding youth work to populations that traditionally have not been involved in 4- H and other Extension activities,” said John C. van Es, professor emeritus. “Through building community coalitions and working closely with others in the community he has been able to provide ongoing pro- gramming to benefit all segments of youth population.”

Sharon Wright, national program leader of Children, Youth and Families at Risk, said Zwilling is a soft-spoken and humble person who has made great accomplish- ments.

“Al’s work at the community, county and university levels is an example of bringing the best of the land grant university resourc- es to citizens in all types of environments and wherever they live,” Wright said. “He keeps a focus particularly for those chil- dren, youth and families living in difficult and challenging environments who benefit greatly from his work and his example.”

Dennis Campion, associate dean of Ex- tension and Outreach commented on Zwill- ing’s work in a particular Illinois County.

“Based on population, Rock Island County is one of Illinois’ larger, more urban counties and is a growth county,” Campion said. “When Al became Acting Unit Lead- er in 1994, a referendum was desperately needed to authorize the county board to levy a tax to support Extension if we were to sur- vive. He immediately developed a strategic plan … to build support for Extension.”

Van Es said the UI Extension has ben- efitied because of Zwilling’s creativity and dedication.

“He is a wonderful example of the power of bringing the university’s resources to the people of Illinois,” Van Es said.

TRAFFIC SAFETY, FROM PAGE 1

The bicycle master plan is one of sever- al safety projects that were recommended in the Campus Area Transportation Study, a report commissioned by the Champaign-Urbana Urbanized Area Transportation Study (CUUATS), a multi-jurisdictional committee that comprises officials from Urbana, Champaign, the UI, the Illinois Department of Transportation and the Champaign-Urbana Mass Transit District.

Some of the safety modifications rec- ommended in the Campus Area Transpor- tation Study, originally completed in June 1999 and updated in July 2005, have been completed. But the CUUATS plans to propose three additional projects to IDOT soon. The projects include improve- ments on Goodwin Avenue, Fourth Street and Wright Street, such as upgrading traf- fic signals and street lighting, installing bicycle lane striping and installing “pedestrian bump- outs” at intersections. A bump-out extends the number of stops on Goodwin Avenue to one crosswalk is shorter. (A bump-out is at the intersection of Sixth and John streets in Champaign.)

Bill Gray, director of public works for Urbana, said that over the summer, the city will stripe bike lanes and install pedes- trian bump-outs at intersections on Illi- nois Street between Goodwin Avenue and Gregory Street, and on Lincoln Avenue be- tween Illinois Street and Gregory Drive.

The UI also will be refurbishing the intersection of Mathews and Springfield avenues with pedestrian bump-outs and other safety enhancements.

Gray said Urbana has applied for a $560,000 grant from the Highway Safety Improvement Program, a multimodal safety initiative funded by the Federal Highway Administration, to make im- provements on Goodwin Avenue between Clark Street on the north and Gregory Drive on the south. If the city receives the grant, the $1.1 million project would in- clude pavement resurfacing, striping bike lanes, upgrading the street lighting and consolidating bus stops to reduce the num- ber of stops on Goodwin Avenue to one stop between Green and Springfield and one between Nevada and Gregroy Drive.

The work would be done in 2008.

This fall, the UI police will host Safety Awareness Day, an educational event in- tended to foster a campus culture where people are mindful of good safety prac- tices. The police are developing the event in conjunction with a group of students from instructor Kris Campbell’s “Public Information Management” class (Speech Communication 251).

On April 10, a consulting firm hired by the UI will present the findings of a campus intermodal transportation study to Chancellor Richard Herman, who com- missioned the report last year. The firm examined long-term, strategic issues such as transportation needs on campus and tactics for reducing congestion.
Committee considers undergraduate education pathways, possible curricula changes

By Shalita Forrest
Assistant Editor

Almost 20 percent of undergraduate students at Illinois take more than six years to graduate, and the percentage is even higher among students from underrepresented groups. The Pathways in Undergraduate Education Committee, formed by Provost Linda Katehi and chaired by Steven Leigh, a professor of anthropology, is examining curricula to determine if unexpected and undesirable barriers exist that impede students.

Some people know early in life that within them beats the heart of a dancer, or a mathematician or a veterinarian, and for them college is a straight path to their degree. But many students arrive on campus uncertain about the paths they want to take, and some may spend several semesters studying one discipline only to realize that their interest lies somewhere else. Changing majors and perhaps colleges, however, is not always simple because curricula are more flexible in some programs than in others.

One of the four issues the committee is investigating is whether some curricula are “over prescribed,” with too many required courses and too few electives for students to make a certain declaration upon coming here, only to end up in a very different place some years down the line.”

“One of the strengths of our university,” Leigh said, “is that there’s so much available for students, and we’re taking a look at the functions that might be associated with students’ making inter-college transfers and making sure that students can take advantage of the strengths that we have.”

Another issue that Katehi asked the committee to examine is means of increasing the presence of students from underrepresented groups in a wider array of majors. A disproportionately number of students from economically and educationally disadvantaged groups who participate in the UI’s Educational Opportunities Program, administered by the Office of Minority Student Affairs, enroll in the College of Liberal Arts and Sciences and graduate with LAS majors. The committee will be recommending ways of encouraging EOP students to consider all the options available to them.

Chancellor Richard Herman’s strategic plan for the Urbana campus identified several themes that he deemed crucial for preparing students for life in the 21st century, including globalization, multiculturalism, leadership and information literacy. The committee will look at various ways in which the institutional culture can provide related learning experiences, whether it be by creating interdisciplinary minors for undergraduates, developing a general or liberal studies degree or developing a concentration in one of the thematic areas. They also are considering whether the student affairs units and academic units could partner with each other to provide programs through which students could build the requisite knowledge and skills.

Kristi Kuntz, assistant provost, said that the provost’s committee “has pulled together faculty members from across campus to begin thinking about these issues. They have considerable time and energy invested in their disciplines within the undergraduate arena. And we’re tapping into that background and experience to get their perspectives about what they see happening on campus.”

The committee is expected to provide Katehi with a summary report of its perspectives and recommendations by May 1.

By Steven Leigh, anthropology, chair

The committee will be exploring. We need to know a lot more about what it means for a student to make a certain declaration upon coming here, only to end up in a very different place some years down the line.”

“One of the strengths of our university,” Leigh said, “is that there’s so much available for students, and we’re taking a look at the functions that might be associated with students’ making inter-college transfers and making sure that students can take advantage of the strengths that we have.”

Another issue that Katehi asked the committee to examine is means of increasing the presence of students from underrepresented groups in a wider array of majors. A disproportionately number of students from economically and educationally disadvantaged groups who participate in the UI’s Educational Opportunities Program, administered by the Office of Minority Student Affairs, enroll in the College of Liberal Arts and Sciences and graduate with LAS majors. The committee will be recommending ways of encouraging EOP students to consider all the options available to them.

Chancellor Richard Herman’s strategic plan for the Urbana campus identified several themes that he deemed crucial for preparing students for life in the 21st century, including globalization, multiculturalism, leadership and information literacy. The committee will look at various ways in which the institutional culture can provide related learning experiences, whether it be by creating interdisciplinary minors for undergraduates, developing a general or liberal studies degree or developing a concentration in one of the thematic areas. They also are considering whether the student affairs units and academic units could partner with each other to provide programs through which students could build the requisite knowledge and skills.

Kristi Kuntz, assistant provost, said that the provost’s committee “has pulled together faculty members from across campus to begin thinking about these issues. They have considerable time and energy invested in their disciplines within the undergraduate arena. And we’re tapping into that background and experience to get their perspectives about what they see happening on campus.”

The committee is expected to provide Katehi with a summary report of its perspectives and recommendations by May 1.
Mechanics meets chemistry in new way to manipulate matter

By James E. Kloeppel
News Bureau Staff Writer

The inventors of self-healing plastic have come up with another invention: a new way of doing chemistry.

UI researchers have found a novel way to manipulate matter and drive chemical reactions along a desired direction. The new technique utilizes mechanical force to alter the course of chemical reactions and yield products not obtainable through conventional conditions.

Potential applications include materials that more readily repair themselves, or clearly indicate when they have been damaged.

“This is a fundamentally new way of doing chemistry,” said Jeffrey Moore, a William H. and Janet Lycan Professor of Chemistry at Illinois and corresponding author of a paper that describes the technique in the March 22 issue of the journal Nature.

“By harnessing mechanical energy, we can go into molecules and pull on specific bonds to drive desired reactions,” said Moore, who also is a researcher at the Frederick Seitz Materials Laboratory on campus and at the university’s Beckman Institute for Advanced Science and Technology.

The directionally specific nature of mechanical force makes this approach to reaction control fundamentally different from the usual chemical and physical constraints.

To demonstrate the technique, Moore and colleagues placed a mechanically active molecule – called a mechanophore – at the center of a long polymer chain. The polymer chain was then stretched in opposite directions by a flow field created by the collapse of cavitating bubbles produced by ultrasound, subjecting the mechanophore to a mechanical tug of war.

“We created a situation where a chemical reaction could go down one of two pathways,” Moore said. “By applying force to the mechanophore, we could bias which of those pathways the reaction chose to follow.”

One potential application of the technique is as a trigger to divert mechanical energy stored in stressed polymers into chemical pathways such as self-healing reactions.

In the original self-healing concept, microcapsules of healing agent are ruptured when a crack forms in the material. Capillary action then transports the healing agent to the crack, where it mixes with a chemical catalyst, and polymerization takes place.

With new mechanical triggers, however, mechanical energy would initiate the polymerization directly, thereby skipping many steps. The cross-linking of neighboring chains would prevent further propagation of a crack and avoid additional damage.

“We have demonstrated that it is now possible to use mechanical force to steer chemical reactions along pathways that are unattainable by conventional means,” Moore said. “We look forward to developing additional mechanophores whose chemical reactivity will be activated by external force.”

The other authors of the paper besides Moore are graduate student and lead author Charles Hickenboth, aerospace engineering, center; and Jeffrey Moore, professor of chemistry, have collaborated again. The inventors of self-healing plastic have come up with another invention: a new way of doing chemistry.
UI research: Prefrontal cortex loses neurons during adolescence

By Diana Yates
News Bureau Staff Writer

UI researchers have found that adolescence is a time of remodeling in the prefrontal cortex, a brain structure dedicated to higher functions such as planning and social behaviors.

The study of rats found that both males and females lose neurons in the ventral prefrontal cortex between adolescence and adulthood, with females losing about 13 percent more neurons in this brain region than males. This is the first study to demonstrate that the number of neurons in the prefrontal cortex decreases during adolescence. It also is the first to document sex differences in the number of neurons in the PFC. The study appears in the Feb. 9 issue of the journal Neuroscience.

Earlier studies in humans have found gradual reductions in the volume of the prefrontal cortex from adolescence to adulthood, said psychology professor and principal investigator Janice M. Juraska. “But the finding that neurons actually are dying is completely new. This indicates that the brain reorganizes in a very fundamental way in adolescence.”

Juraska, graduate student Julie Markham and undergraduate student John Morris found that the number of neurons decreased in the ventral, but not dorsal, prefrontal cortex during adolescence. The number of glial cells, which surround and support the neurons, remained stable in the ventral PFC and increased in the dorsal PFC.

These findings challenge current models of brain development by showing that some parts of the brain are still being organized well after puberty. This could have implications for understanding human psychopathologies, such as schizophrenia, which often arise in late adolescence, Juraska said.

Other psychological conditions, such as depression, often first occur in adolescence. And alcohol and nicotine addictions that start in adolescence are harder to overcome than those that begin in adulthood, Juraska said. “We know that experiences are very potent in younger children because their brains are developing,” Juraska said. “So if there is another time that the brain is changing, then everything that happens can be written in and modified more than during stable times.”

The finding that females lose more neurons in the ventral PFC than males during adolescence also is new. Juraska had found earlier that adult female rats had fewer neurons than males in the visual cortex, a brain region associated with perception. But no other studies have looked for sex differences in the number of neurons in the prefrontal cortex.

It is unclear whether sex differences seen in the rat PFC also occur in humans, Juraska said. One contributing factor may be that female rats in the wild are almost always pregnant or nursing. “The metabolic demands on female rats are so heavy that it might be worthwhile to do away with some very costly cortical cells,” she said. “So this may just be a reproductive phenomenon.”

The loss of neurons is also a necessary part of brain development, she said. “We always think that having more neurons is better, and it might not be,” Juraska said. In some stages of early child development up to half of the neurons in some brain regions are lost. The pruning away of unneeded or disruptive neural circuits appears to be as important to development as the growing of new neural connections, Juraska said.

Although other researchers had seen reductions in the size of the cortex, “no one thought neurons were lost, unless some terrible thing were happening,” Juraska said. “Now we are seeing that some major changes are occurring in adolescence that no one has suspected.”

Juraska is in the Neuroscience Program and is an affiliate of the Beckman Institute.

Brain development

Psychology professor Janice Juraska, right, and graduate student Julie Markham have found that adolescents begin to lose neurons in the prefrontal cortex.

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Spring 2007 Publication Schedule

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<tr>
<th>Publication Date</th>
<th>Deadline for Briefs</th>
<th>Advertising Deadline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan. 18</td>
<td>Jan. 10</td>
<td>Jan. 11</td>
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<tr>
<td>Feb. 1</td>
<td>Jan. 24</td>
<td>Feb. 15</td>
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<td>April 25</td>
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www.news.uiuc.edu/ll • dkdahl@uiuc.edu
Linear arrays of nanotubes offer path to high-performance electronics

By James E. Kloeppel
News Bureau Staff Writer

Despite the attractive electrical properties and physical features of single-walled carbon nanotubes, incorporating them into scalable integrated circuits has proven to be a challenge because of difficulties in manipulating and positioning these molecular scale objects and in achieving sufficient current outputs.

Now, researchers at the UI, Lehigh University and Purdue University have developed an approach that uses dense arrays of aligned and linear nanotubes as a thin-film semiconductor material suitable for integration into electronic devices.

The nanotube arrays can be transferred to plastic and other unusual substrates for applications such as flexible displays, structural health monitors and heads-up displays. The arrays also can be used to enhance the performance of devices built with conventional silicon-based chip technology.

“The aligned arrays represent an important step toward large-scale integrated nanotube electronics,” said John A. Rogers, a Founder Professor of Materials Science and Engineering, and a professor of materials science and engineering at Illinois, and a co-author of the paper. “Our work seeks to bridge this gap.”

A first John A. Rogers, a Founder Professor of Materials Science and Engineering, says this is the “first study that shows properties in scalable device configurations that approach the intrinsic properties of the tubes themselves, as inferred from single-tube studies.”

The aligned arrays consist of hundreds of thousands of nanotubes, each approximately 1 nanometer in diameter (a nanometer is 1 billionth of a meter), and up to 300 microns in length (a micron is 1 millionth of a meter). The nanotubes are spaced approximately 100 nanometers apart.

The arrays function as an effective thin-film semiconductor material in which charge moves independently through each of the nanotubes. In this configuration, the nanotubes can be integrated into electronic devices in a straightforward fashion by conventional chip-processing techniques.

A typical device incorporates approximately 1,000 nanotubes, and can produce current outputs 1,000 times higher than those of previously reported devices that incorporate just a single nanotube. Many devices can be built from each array, with good device-to-device uniformity. Detailed theoretical analysis of these unusual devices reveals many aspects of their operation.

Using the arrays, the researchers built and tested a number of transistors and logic gates, and compared the properties of nanotube arrays with those of individual nanotubes.

“This is the first study that shows properties in scalable device configurations that approach the intrinsic properties of the tubes themselves, as inferred from single-tube studies,” said Rogers, who also is a researcher at the university’s Beckman Institute.

Nanotube arrays aren’t likely to replace silicon, Rogers said, but could be added to a silicon chip and exploited for particular purposes, such as higher speed operation, higher power capacity and linear behavior for enhanced functionality. They can also be used in applications such as flexible devices, for which silicon is not well suited.

“Nanotubes have shown potential in the past, but there hasn’t been a clear path from science to technology,” said Moonsub Shim, a professor of materials science and engineering at Illinois, and a co-author of the paper. “Our work seeks to bridge this gap.”

With Rogers and Shim, co-authors of the paper are postdoctoral research associate Seong Jun Kang and graduate students Coskun Koçabas and Taner Ozel, all at Illinois; electrical and computer engineering professor Muhammad A. Alam and graduate student Ninad Pimparkar at Purdue, and physics professor Slava V. Rotkin at Lehigh.

The National Science Foundation and the U.S. Department of Energy funded the work.
achievements

A report on honors, awards, appointments and other outstanding achievements of faculty and staff members

broadcasting

Three WILL Radio programs, along with a video made by WILL-TV’s VideoWorks for the UI department of computer science, were honored in the international Communicators Awards Competition.

In the arts/cultural division, “Classically Black: Florence Beatrice Price,” part of WILL-FM’s “Classically Black” series by Roger Cooper, received an Award of Excellence. WILL-FM’s series “Vivaldi for All Seasons,” produced by Vic Di Geronimo, also received an Award of Excellence.

“The 20th Century Exodus: The Triumphant Life and Journey of the Jewish in Our Community,” a documentary on the Champaign-Urbana Jewish community produced by WILL-AM’s Dave Dickey and students from University Laboratory High School, received an Award of Distinction in the student category.

WILL-TV’s VideoWorks media production unit won two Communicator Awards for “Aviation Security: Researching the Risk,” a video it made last year for Sheldon Jacobson, a professor of computer science. The video received an Award of Excellence in two categories, “video news release” and “college or university.” The video, produced by Steve Drake with videography by Jeff Cunningham, highlighted research being done in Jacobson’s Simulation and Optimization Laboratory and explored how he is applying research in other fields.

The Communicator Awards is an international awards program recognizing creative excellence in the communication field.

engineering

Kenneth Christensen, professor of mechanical science and engineering, received a 2007 National Science Foundation CAREER Award. The award will provide five years of funding for Christensen to study coupled roughness/pressure-gradient effects and reduce the complexity of highly irregular roughness in wall turbulence. The CAREER Award recognizes and supports the activities of scholars early in their careers. Awarded are often considered to be emerging leaders in their respective fields.

William King, professor of engineering and the Kratzer Faculty Scholar, received a 2007 Young Investigator award from the Office of Naval Research. The award, which honors academic researchers early in their academic careers, will help fund King’s proposed research on “Nanoscale Measurements of Temperature and Thermal Properties for Applications in Thermal Management and Energy Harvesting.” Recipients of the award are selected based on the significance and impact of previous research, publications and professional activities; the creativity of their research proposals, and the long-term commitment their institutions have to them.

King’s current research includes micro- and nanoscale heat transfer and thermal processing, atomic force microscopy, microelectromechanical systems, micro- and nanofabrication and self-assembly. Such work may ultimately play a role in making nanomanufacturing a practical reality.

D. Scott Denmark, professor of mechanical science and engineering, was awarded a National Academies Fellowship, Senior Research Award. The National Academies includes the National Academy of Sciences, the National Academy of Engineering, the Institute of Medicine and the National Research Council, which is administering Stewart’s fellowship in conjunction with the Air Force Office of Scientific Research. The internationally competitive program provides opportunities for highly qualified scientists and engineers to work on research programs of their choice in federal laboratories. Stewart will pursue research at the Air Force Research Laboratory/Munitions Directorate at Eglin Air Force Base in Florida, in collaboration with Horie Yuayuki. In Stewart’s study, he will investigate issues of complexity related to the ignition of energetic materials, with a focus on mechanisms and collective behaviors of reactive sites at the microscale, and will develop a basis for new sub-models for explosive particle interactions.

Yuanhuan Zhou, professor of computer science, received a 2007 Sloan Foundation Fellowship from the Alfred P. Sloan Foundation. The awards, which consist of $45,000 in research support, are intended to enhance the careers of young faculty members in specified fields of science. These fellowships are awarded annually in chemistry, computational and evolutionary molecular biology, computer science, economics, mathematics, neuroscience and physics.

fine and applied arts

David Hays, professor of landscape architecture, received a 2007–08 fellowship at a research branch of Harvard University located in Washington, D.C. Dumbarton Oaks houses the foremost garden and landscape history research center in the U.S. This fellowship will support Hay’s final research and completion of a book project on Paolo Bugai and his work at La Cardada, a mountain in the Ticino region of Switzerland.

Anne Hedeman, professor of art history and of medieval studies, was invited by the Courtauld Institute in London to give the International Center of Medieval Art at the Courtauld Lecture on March 15. The lecture, “Visual Translation in 15th-Century France: Laurent de Premièrfait and Boccaccio,” explored the role played by visual imagery in aiding the linguistic and cultural translation from Latin to French and Italy to France of one of Giovanni Boccaccio’s most popular medieval texts, the “De Casibus Virorum Illustrium.”

Eduardo Diazmuzon, artistic and music director and principal conductor of the Opera Division and the New Music Ensemble at the UI, was named to the five-member jury for the third Eduardo Mata International Conducting Competition. The competition is sponsored by the State Government of Oaxaca and the National Autonomous University of Mexico through a program called Instrumenta Oaxaca that seeks to develop musical distinction in four different areas: education, creation, performance and the preservation of musical heritage. The conducting competition helps to fulfill the educational part of the group’s initiative and will take place in Mexico City Sept 4–9.

The competition is open to young orchestral conductors who are evaluated through a panel of internationally renowned conducting professionals.

liberal arts and sciences

Scott Denmark, professor of chemistry, was selected by the Organic Chemistry Branch of the National Science Foundation to receive a 2007 Prelog Achievement Award. The National Academies of Sciences, Engineering and Medicine, in collaboration with the Air Force Office of Scientific Research, will provide opportunities for highly qualified scientists and engineers to work on research programs of their choice in federal laboratories. Stewart will pursue research at the Air Force Research Laboratory/Munitions Directorate at Eglin Air Force Base in Florida, in collaboration with Horie Yuayuki. In Stewart’s study, he will investigate issues of complexity related to the ignition of energetic materials, with a focus on mechanisms and collective behaviors of reactive sites at the microscale and will develop a basis for new sub-models for explosive particle interactions.

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The competition is open to young orchestral conductors who are evaluated through a panel of internationally renowned conducting professionals.
Jim Kaler, professor emeritus of astronomy, was named president of the board of the Astronomical Society of the Pacific. The society is one of the world’s oldest astronomy organizations and is an international leader in astronomy education. For more information on the society, go to www.astrosociety.org.

Chad Rienstra and Christina White, professors of chemistry, received 2007 Sloan Foundation Fellowships from the Alfred P. Sloan Foundation. These awards, which consist of $45,000 in research support, are intended to enhance the careers of young faculty members in specified fields of science.

Rienstra was recognized for his broad-based program to develop solid-state NMR spectroscopy as a tool for the structure determination of large biomolecules and biomolecular assemblies, and White for the discovery of fundamentally new reactions, including C-H oxidations.

Jennifer Bloom, associate dean of student affairs in the College of Medicine, was elected president of the National Academic Advising Association. Bloom will begin her term at the end of the association’s annual conference in October and serve until October 2008.

Bloom will be responsible for serving as the chief executive officer of the association and will chair the board of directors. She also will advocate for the role of advising in the success of students to the higher education community internationally.

Geneva Belford, professor emeritus of computer science, will receive the Mothers Association Medallion of Honor, the most prestigious annual award given by the Mothers Association at Illinois.

The annual award – to be presented at the 2007 Mom’s Weekend annual banquet on April 13 – recognizes a woman who has used her talents to enrich the lives of others through example and service. Belford will be honored for these qualities, as well as her great enthusiasm and continual encouragement of her students and colleagues.

Belford’s affiliation with the UI began as a student in the mid-1950s. She joined the faculty in the 1970s, and now serves the department of computer science as coordinator of graduate education and advisement.

Steven G. Anderson, director of the Ph.D. program of the School of Social Work, was named as a new Advisory Committee member of The Gabe W. Miller Memorial Foundation. Gabe Miller died in 2005 while an MSW student at the University of Denver. He inspired those around him to make the most of their lives and careers. The foundation, inspired by his memory, strives to help social workers and the institutions that educate and support them.

The foundation, an Illinois not-for-profit corporation, raises money from the public for distribution without ethnic, geographic, university-specific or subject matter limitations. 
Six Urbana faculty members honored as University Scholars

Six faculty members at the Urbana campus have been chosen to be University Scholars. The program recognizes excellence while helping to identify and retain the university’s most talented teachers, scholars and researchers.

Now in its 21st year, the program provides $10,000 to each scholar for each of three years to use to enhance his or her academic career. The money may be used for travel, equipment, research assistants, books or other purposes. Eight scholars also were recognized at the Chicago campus, including one recognized posthumously, and one scholar was recognized at the Springfield campus.

“The designation, University Scholar, is the highest recognition we bestow on our faculty,” UI President B. Joseph White said in remarks at a recognition dinner Feb. 20 at the Krannert Center for the Performing Arts. “The awards are not made for a specific project or proposal; rather, they are a symbol of the recipient’s excellence and the university’s commitment to foster outstanding people and their work.”

Since the program began in 1985, 451 scholars have been named and more than $10 million has been awarded to support their teaching and research. Funding for the program comes from private gifts to the Advancement Fund of the UI.

The Urbana scholars, their departments and a summary of their expertise, according to the nominating documentation:

- **Fouad Abd-El-Khalick, curriculum and instruction**
  - Fouad Abd-El-Khalick, a professor of curriculum and instruction, joined the faculty in 2000. “His major research contributions involve conceptual and theoretical advances – and empirical findings – that have changed how researchers and teacher-educators view learner’s acquisition of knowledge related to science,” a nominator wrote. More than half of his refereed journal articles have appeared in the three most prestigious journals in the field of science education. He also has been recognized repeatedly for outstanding teaching.

- **Paul R. Selvin, physics**
  - Paul R. Selvin, a professor of physics, joined the faculty in 1985. “Paul has been named and more than $10 million has been awarded to support their teaching and research. The awards are not made for a specific project or proposal; rather, they are a symbol of the recipient’s excellence and the university’s commitment to foster outstanding people and their work.”

- **Jie Chen, cell and developmental biology**
  - Jie Chen, a professor of cell and developmental biology, joined the faculty in 1997. “He is noted for his pioneering work in single-molecule biophysics – specifically for his development of novel fluorescence tools to reveal, at the atomic scale, the structure and dynamics of biological molecules and molecular motors.” He is regularly listed among teachers ranked as excellent by their students.

- **Robert Ghrist, mathematics**
  - Robert Ghrist, a professor of mathematics, joined the faculty in 2002. “His singular strength is his ability to apply standard as well as cutting-edge techniques from topology, geometry and dynamics, to real-life problems in robotics, parabolic coupled dynamic system and hydrodynamics.”

- **William Maxwell, English**
  - William Maxwell, a professor of English, joined the faculty in 1994. “William Maxwell is one of our most productive and accomplished younger faculty members,” a nominator wrote. “He already has published two books – a literary history and a pioneering scholarly edition of poetry.” He serves as director of graduate studies in the English department and frequently is listed among “Illinois Teachers Ranked as Excellent by Their Students.”

- **Paul R. Selvin, physics**
  - Paul R. Selvin, a professor of physics, joined the faculty in 1997. “Paul is a superb experimentalist at the intersection of physics, biology and chemistry,” a nominator wrote. “He is noted for his pioneering work in single-molecule biophysics – specifically for his development of novel fluorescence tools to reveal, at the atomic scale, the structure and dynamics of biological molecules and molecular motors.” He is regularly listed among teachers ranked as excellent by their students.

For a complete list of past University Scholars:

www.research.uiuc.edu/usp/past.asp
Program helping poor in India become better informed buyers, sellers

By Mark Reutter
News Bureau/Staff Writer

A UL professor has started a grassroots program to help poor people in India improve their consumer and business skills.

Madhu Viswanathan, a professor in the College of Business, directs the Marketplace Literacy Project and has developed educational programs for adults who cannot read or write. “Our approach uses teaching methods such as picture sortings, group discussion and role playing,” he said.

Teaching the poor how to become better-informed buyers and sellers will complement other efforts to combat poverty, as microfinance, or supplying small loans for low-income households, according to Viswanathan. “We enable deeper understanding of marketplaces by leveraging the social skills that participants bring to the program and relating educational content back to their lived experiences,” he said.

The training program is the outgrowth of Viswanathan’s research on subsistence economies in Tamil Nadu, a state on the southeast coast of India. His sample included a range of rural and governmental organizations over the last six years, the Illinois professor interviewed low-literate, low-income people about their buying and selling habits.

His sample included a range of rural and urban poor whose incomes were spent on such necessities as food (mostly rice, lentils, vegetables and spices) and clothing. Interviews were conducted in Tamil, the language spoken locally, which also was the native language of Viswanathan and his two associates in India, S. Gajendiran and R. Venkatesan.

One of the findings of his research was the level of “functional literacy,” or ability to conduct everyday functions through social interactions, among the poor. He gave an example of a woman with no formal education who, forced to be her family’s breadwinner, preferred to buy groceries from enterprising vendors, then resold them to residents of her community.

Managing interactions among her customers was one of the most difficult tasks she had to master because her conversations were rarely private. This meant that she constantly had to deal with the tension between following general procedures and demands by buyers for special treatment. Despite having almost no experience as a seller and minimal experience as a customer, she was able to run a successful enterprise and take care of her family.

Another interesting aspect of economic life among India’s poor was the prevalence of very small roadside vendors. The most successful retailers maintained personal relationships with their customers and sometimes acted as their bankers, keeping customers’ money from thieves or an irresponsible husband.

Looking at how subsistence markets work is a neglected area of mainstream academic research, according to Viswanathan. “There has been a lot of work in the social sciences on literate, relatively resource-rich individuals and societies. But what happens when we cross the literacy barrier and when we cross the resource barrier?”

To educate himself in subsistence markets, Viswanathan concentrated on in-depth interviews and close observation. Almost immediately after his research began, “I started thinking of grassroots educational programs to help people as buyers and sellers. Rather than a one-size-fits-all approach, the aim here was to combine relevant business principles with localized research.”

In 2003, he formed the Marketplace Literacy Project, a non-profit organization to advance social initiatives stemming from his research. The educational program in India is being expanded by an organization that reaches hundreds of villages. Other potential avenues of growth include the use of computer kiosks in rural areas as hubs for learning.

“A lot of what we’re conveying is about choice,” he said. “We emphasize the importance of checking on a product and making inquiries at several shops before purchasing. We set up shops in the classroom and cheat people. We try to enable skills, self-confidence and awareness of rights.”

Another aspect of Viswanathan’s program is to help people who cannot read or write to start their own business. Lessons include how to choose a business, how to evaluate consumer needs, how to promote a product and how to use customer feedback to make appropriate stock decisions.


Viswanathan’s research has been funded by the National Science Foundation and the Center for International Business and Education Research (CIBER) at Illinois.

Providing opportunities Educational programs developed by Madhu Viswanathan, a marketing professor in the College of Business, could improve the economic opportunities of Indian women who cannot read or write, such as these beggars outside a train station at Agra in the state of Uttar Pradesh.

Personal shopping The prevalence of very small vendors is a characteristic of subsistence markets in India. The most successful retailers maintain personal relationships with their customers and sometimes act as their bankers. This indoor market is in Pune, a city in southwest India.

Learning to buy and sell Women in Chennai, on India’s southeast coast, take a class on marketplace literacy. Madhu Viswanathan’s assistants, R. Venkatesen, left, and S. Gajendiran, teach the class in the native language.
Neoliberal policies of the '90s have worsened Rust Belt's black ghettos

By Andrea Lynn

Near Detroit, Mo. – A staff writer

The brighter that city-centers in the northern U.S. glow, the runnier the ghettos in those cities become. Such is the price for globalization. Unemployment, underemployment, hopelessness and poverty have been “searing” the inner cities before, but since globalization, they are more pronounced and stigmatized and they further deepen their poverty.

In his new book, “Cities and Race: America’s New Black Ghetto” ( Routledge), by David Wilson, a UI professor in geography.

According to Wilson, “Today, in the shadows of gleaming downtown skyscrapers and showy gentrified neighborhoods, many impoverished black ghettos in America’s ‘Rust Belt’ have substantially worsened.”

Wilson, the author of multiple studies of Chicago, argues that the push for “new urbanism” and the “more pro-‘edible’ and ‘placable’ land uses and populations is, more mictively than ever before, housing black bodies in a complex of inferior schools, decrepit homes, isolated social spaces and glaringly underfunded institutions.”

And while he concedes that U.S. ghettos have long been “wretched,” Wilson attributes this to, and being stigmatized by “negative representations” is nothing new for the rest of ghettos, Wilson says that a “more pronounced depravity” now marks these areas. Ghettos are increasingly being “narrated through” the metaphor of an “animate place plagued by consumptive degeneracy, where living beings have fallen into a state of habitually ‘eating’ social resources – goods, service and subsistence.”

For his study, Wilson analyzed newspaper stories about city growth and development in six major daily papers in the Midwest and in The New York Times; conducted discussions with local planners, city officials, program heads and representatives, community activists, residents and others in six Chicago, Cleveland, Indianapolis, Philadelphia, St. Louis and New York; and conducted an analysis of the narrative discourse in a syndicated nonconservative radio commentator Manco Muller.

Neoliberalism, defined by Wilson as the form of governance that “more profoundly prioritizes the capabilities of the individual, limited government and the politics of attracting resources rather than the politics of redistributing resources,” swamps what Wilson calls a “growth machine”: a constellation of local agencies and institutions, prominent builders, developers, government, real estate agents, the media and local utilities that form a coalition to “attract more business and industry... build more conspicuous consumption neighborhoods and vibrant, lavish downtowns and re-entrepreneurialize local businesses.”

In building these showcase city centers, these coalitions also are seeking “new urbanism” and are “selling” the residents of the Rust Belt ghettos a “new black ghetto” of hopelessness and poverty.

Other forces that are wreaking havoc on the ghettos today include the Earth-Based Resource Consolation and Workforce.

But one of Wilson’s most disturbing findings involves the post-sequences of President George W. Bush’s 2002 initiative, “No Child Left Behind.”

Tried first in Texas, the program, now national in scope, was funded at the rate of $1 billion a year for five years and challenges states, counties and districts to carry out the president’s notion of an “educational miracle.”

In reality, the program has been “removing or expelling bad test-takers and other students with a range of ‘problems’ large and small.”

“Select purging” – both on a short- and long-term basis – is “widespread” in Wilson’s “ghettos.”

“Cities and Race” David Wilson, a geography professor, is the author of a new book, “Cities and Race: America’s New Black Ghetto.” According to Wilson, “Today, in the shadows of gleaming downtown skyscrapers and showy gentrified neighborhoods, many impoverished black ghettos in America’s Rust Belt have substantially worsened.”

“Key decision makers, compelled to protect their school’s lifeblood – money – are ironically turning against the most vulnerable students to protect the possibility of providing a more enriching experience for the generic ‘student.’”

Story of Mohatma Gandhi told by his grandson

A candid re-creation of one of the most influential lives of recent times, “Mohandas: A True Story of a Man, His People, and an Empire” (Penguin Books India) answers questions long asked about Mohandas Gandhi (known to the world as Mahatma Gandhi), the timid youth from India who became a century’s conscience and led his nation to liberty.

What was Gandhi like in his daily life and in his closest relationships? How did he handle his faceoffs with an empire, with his own bitterly divided people, with his advisers, his friends, his critics and – his greatest confrontation – with himself?

Answering these and other questions, and revealing the true Gandhi from his shroud of fame and myth, “Mohandas” does more than tell a story. The book is written by Rajmohan Gandhi, a practiced biographer who also is Gandhi’s grandson.

Rajmohan Gandhi, a UI professor in International Programs and Studies, told the Arab Times the book about his grandfather was different than others because it is a complete and chronological biography which is completely candid … other biographies have focused on some aspects of his life, invariably eliminating other aspects.

The book swings between glory and tragedy and the profundity and richness of its insight. “Mohandas” tells the great history of an Asian nation’s interaction with a European empire.

The historical account addresses today’s issues as well. After the violence that has witnessed in recent times, the world awakes to recognize once more the relationship between Muslims and non-Muslims, which constituted one of the compelling passions of Gandhi’s life.

“Mohandas” is not the reader the truth “and it will show the depth of his resilience and his stamina, despite being tested time and time again”

Rajmohan said. “Mohandas,” although not being sold in the U.S., is available at the Illini Union Book Store.

Latin American archaeological sites explored

Some of the greatest archeological sites in the world are found in Latin America, and archeological tourism is widely touted as a solution to the poverty that plagues much of this region. Site museums are playing an important role in the presentation of these finds to the public.

Whether created by national agencies, by the archeological workers working at these sites, or in response to local people’s desire for the re-possessing of the potential development and economic benefit of tourism, site museums are major educational venues, promoting a sense of ownership of the past among resident or nearby populations, as well as greater local interest in cultural heritage and its preservation.

At the same time, they constitute a major heritage management strategy; they can mitigate looting and site destruction, thereby serving as a first line of defense in site preservation.

*Image 157x226 to 293x432*
Insights into osteosarcoma in cats, dogs may improve palliative care

By Diana Yates
News Bureau Staff Writer

U1 researchers have found that a molecular pathway known to have a role in the progression of bone cancer in humans also is critical to the pathology of skeletal tumors in dogs and cats. Their study appears in the January-February issue of the Journal of Veterinary Internal Medicine.

"Osteosarcoma is much more common in veterinary medicine than in human medicine," Barger said. "And in dogs it is fairly common. Other studies have reported a tenfold greater incidence of bone cancer in dogs than in humans.

Broader implications
Annette Barger, professor of veterinary pathology, and Tim Fun, professor of veterinary clinical medicine, have found that a molecular pathway known to have a role in the progression of bone cancer in humans also is critical to the pathology of skeletal tumors in dogs and cats. Barger's dog, She, poses with the researchers.

Owners often make decisions to euthanize based on pain," Barger said. "If we can lessen the pain associated with the tumor, our patients will live longer."

The College of Engineering was ranked No. 5 nationally; units within the college were highly ranked: aerospace/aeronautical/astronautical (8), chemical (10), civil (2), computer (4), electrical (4), environmental (2), materials (2), mechanical (6), nuclear (9).

A number of UI units ranked highly in 2008 edition of "America's Best Graduate Schools," published in the 9th edition of U.S. News & World Report. The Graduate Program in Library and Information Science was ranked No. 1 in the nation, and the two specialties that could be evaluated for rankings are library and information science and library administration.

Graduate school rankings released

The College of Engineering was ranked No. 5 nationally; units within the college were highly ranked: aerospace/aeronautical/astronautical (8), chemical (10), civil (2), computer (4), electrical (4), environmental (2), materials (2), mechanical (6), nuclear (9).

The mathematics program, ranked in 2006, was ranked No. 17, with these specialties also ranked: algebra/number theory/geometry (10), discrete mathematics and combinations (9), logic (3).

Physics, ranked in 2006, received a No. 8 ranking; condensed matter physics was ranked No. 1, nuclear physics No. 10, quantum theory No. 10.

At their March 13 meeting, the trustees voted 9-1 to retire the symbol, and left disposition of it in the hands of Chancellor Richard Herman. Despite the symbol's re-
Ad removed for online version
April 5, 2007

Inside Illinois

brief notes

Krannert Art Museum

“Petals & Paintings” benefit April 13-15

The UI Krannert Art Museum Council will host the 15th annual “Petals & Paintings” benefit April 13-15 in support of the museum's upcoming exhibitions and related educational programming.

Champaign florist Rick Ott is guest curator. The exhibition features floral arrangements created by regional florists in response to works of art selected by Ott from the museum's permanent collection.

The exhibition will open with a reception at Krannert Art Museum from 6-8 p.m. April 13. Guests may view the floral displays as they enjoy hors d’oeuvres, wine and music.

Tickets for the reception are $55 for museum members and $65 for non-members. For more information, call 244-0516. Limited tickets will be available at the door.

The “Petals & Paintings” exhibition may be viewed from 9 a.m.-5 p.m. from April 14 until April 15. Discounted tours will be available April 14 beginning at 10 a.m.

WILL awarded grant

Local WW II veterans’ stories will be told

WILL AM-FM-TV received a $10,000 grant to capture the stories of Central Illinois World War II veterans and their families in conjunction with the broadcast of Ken Burns’ “The War” on PBS in September. The station will use the grant to collaborate with community groups to target hundreds of individuals to be interviewed and shared online and through community events.

“Although much has already been written and produced about World War II, our focus will be on storytelling,” said Mark Leonard, general manager of WILL.

“We’d like to encourage people young and old to talk about what happened in their families and communities during the war.”

The exhibition will open with a presentation on April 14 at 7 p.m. in room 2 of the Education Building. Time capsule items contributed by community members will be present at the event.

Local students, faculty and veterans will be on hand to contact the station if they are interested in telling their World War II stories and talking about their experiences both in the war and in the immediate post-war years.

More information is available online at www.art.uiuc.edu/galleries/japanhouse, or by calling 244-9934.

The exhibition will run through April 25. A special reception will be held April 24 from 5-7 p.m. in the museum’s Japan House.

The exhibition features floral arrangements created by regional florists in response to works of art selected by Ott from the museum's permanent collection.

Tornado safety seminar is April 12

WILL AM-FM-TV chief meteorologist Ed Kieser will present a free tornado safety seminar at 7 p.m. April 12, with tips people can use to protect themselves when tornadoes threaten, and new information about changes in the way the National Weather Service issues weather warnings.

Kieser, who was involved in 17th NWS seminar, has trained dozens of individuals in hopes they can contact the local chapter of the American Red Cross when there is a need to talk about tornado safety.

Also during the open house, Japan House gardens designer and builder James Bier will conduct garden tours at 1 and 3 p.m. April 13. Bier will present “The Garden in Japanese Art” and discuss how the garden is an integral part of Japanese culture.

The lecture will open with a reception at Krannert Art Museum from 6-8 p.m. April 13. Guests may view the floral displays as they enjoy hors d’oeuvres, wine and music.

Tickets for both performances are $5 and can be purchased one of the fathers of the Internet, will speak April 10 at the UI.

Vinton Cerf, also a Google vice president, will deliver the 23rd annual Arnold O. Beckman Lecture in Science and Innovation, scheduled for 4 p.m. in the Foellinger Auditorium.

The title of Cerf’s lecture is “Technology and Policy Challenges for the Internet in 2007,” and in it he plans to discuss numerous issues of concern as the Internet expands in its size, applications and number of users. In his position at Google, Cerf is responsible for identifying new technologies and applications on the Internet and other platforms.

The lecture is free and open to the public, and questions will be taken afterward.

Among the numerous topics Cerf is likely to address are the challenges of scale that still need to be solved, security problems, and limits of access and speed.

Cerf is credited as the co-designer, with Robert Kahn, of TCP/IP protocols and basic architecture of the Internet. In recognition of that work, Cerf has been awarded the U.S. National Medal of Technology and the Presidential Medal of Freedom.

Japanese open house is April 14

Kenji Shintada, the consul general of Japan in Chicago, will be the featured speaker April 14 at the annual spring open house of Japan House.

Japan House is an educational and cultural facility focusing on Japanese arts and is affiliated with the university’s College of Fine and Applied Arts.

The open house is scheduled from 10 a.m.-4 p.m. April 14. The open house will be held at 11 a.m. and 2 p.m. on “Japan and Illinois: Partners for Today and Tomorrow.” He will also present the Japanese Foreign Minister Commendation to Morton Weiner, former UI chancellor.

The award recognizes Weihr’s long-time promotion and support of Japanese arts and culture.

During the open house, Japan House gardens designer and builder James Bier will conduct garden tours at 1 and 3 p.m. April 13. Bier will present “The Garden in Japanese Art” and discuss how the garden is an integral part of Japanese culture.

More information about the open house, and other upcoming Japan House events – including a workshop (and lecture-demonstration at the UI’s Krannert Art Museum) by Japanese calligrapher Eishi Sakuta on April 25 – is available online at www.art.uiuc.edu/galleries/japanhouse, or by calling 244-9934.

The Environmental Council

Environmental scholarship showcased

The Environmental Council will host “Environmental Horizons” on April 25. The annual event showcases environmental scholarship at the UI.

This year’s highlights include:

See BRIEFS, PAGE 18

Anyone wanting to volunteer to help sort the items prior to the sale can contact Geiken at 217-333-6503.

Illinois Radio Reader, a service of WILL, provides news and information to blind and print-handicapped audiences in East Central Illinois.

“Internet evangelist”

Google VP will speak April 10

Google corporation’s chief Internet evangelist, consid-

A reception after Watson’s talk will feature posters presented by 60 undergraduate and graduate students; artwork from students, faculty and staff members, and community members; and exhibits by Building a Lasting University Environment grant recipients, Earth and Society grant recipients, and other campus environmental programs.

A panel discussion titled “Putting Knowledge to Work: Designing a Sustainable Agricultural System” (3:30 to 5 p.m., Illini Union) solicited.

Environmental Horizons will be a carbon neutral event. All carbon emissions, including emissions from participant and speaker transportation, speaker hotel rooms, electricity use at the Illini Union, food preparation, poster preparations and incidental carbon emissions, will be offset by planting trees and investing in renewable energy technology, such as wind turbines and solar panels. A $1 voluntary registration fee will be requested from participants to purchase these offsets.

For more information about Environmental Horizons 2007 and a complete agenda can be found at www.environ.uiuc.edu/horizons.htm.

Physical Electronics Conference
Deadline to submit abstracts is April 20

The 67th annual Physical Electronics Conference, in collaboration with the University of Illinois, will provide a forum for the dissemination and discussion of new research results in the physics and chemistry of surfaces and interfaces. The conference will continue to emphasize fundamental science in materials systems, including metals, semiconductors, insulators and biomaterials. Experimental and theoretical talks on research performed at exposed (gas-solid), buried (liquid-solid and solid-solid) and hybrid (for example, semiconductor-biomaterial) interfaces are solicited.

Confirmed invited speakers are professor Charles Campbell, University of Washington and Frances Ross, IBM.

Questions can be addressed to Ramona Simpson, 333-1381 or pec07@uiuc.edu. More information also is available at http://cmn.ml.tu.uiuc.edu/PEC07/

Center for Healthy Minds
‘RealAge’ author will speak April 29

According to Dr. Michael F. Roizen’s birth certificate, the Cleveland Clinic anesthesiologist and bestselling author is 59 years old. But his RealAge—a formula developed by Roizen that measures the biological age of your body based on lifestyle, genetics and medical history—is 41.2.

Roizen, a co-author of the New York Times best-sellers “YOU: The Owner’s Manual” and “YOU: On a Diet,” will speak at 2 p.m. April 29 at the Krannert Center for the Performing Arts’ Foellinger Great Hall. His presentation, “RealAge: Are You as Young as You Can Be?” explores how to slow the aging process.

Roizen’s appearance is sponsored by the Center for Healthy Minds at the UI. The center, which is headquartered at the Beckman Institute for Advanced Science and Technology, stimulates research on the topic of healthy minds and seeks to educate the public about the factors that set BRIEFS. Page 20

Science fiction, foreign films, satire and music all part of ‘Ebertfest’

By Craig Chandler

News Editor/Staff Writer

The festival will begin in a troubling future world of made-to-order babies. Later it will travel to a tradition-bound African village, to horrors in 18th-century Paris, to a silent Pago-Pago, the streets of Rome, an old Wisconsin, a gritty American South, and finally to Roger Ebert’s own satirical vision of “60s-era Hollywood.

The stops are just a few in a five-day, 13-film trip through the ninth annual Roger Ebert’s Overseen Film Festival, or “Ebertfest,” coming April 25-29 to Champaign-Urbana.

The festival will open on a Wednesday evening with “Gattaca,” a science fiction thriller, and close on Sunday with the 1970 cult film “Beyond the Valley of the Dolls,” written by Ebert. Following “Dolls” will be a performance by Strawberry Alarm Clock, a ’60s rock band that appears in the film, the original members reuniting after almost four decades.

In between the opening and closing days, the festival will feature films by renowned foreign directors, documentary filmmakers, two very different musicians, personal films dealing with disappointment and loneliness, an African film about the continuing practice of female circumcision, and a free family film about a bizarre juvenile detention center that makes boys dig holes in the desert.

Also on the program, as usual, is a silent film, which will be accompanied for the first time by the Champaign-Urbana Symphony.

The 13 screenings will take place at the 1,500-seat Virginia Theater, a 1920s-era Champaign movie palace, with other events at the UI. The festival is a special event of the College of Communications.

Ebert is a Pulitzer-Prize-winning critic for the Chicago Sun-Times and co-host of “Sneak Peek,” a weekly televised movie-review program. He also is a 1964 Illinois journalism graduate and UI adjunct journalism professor.

In past years, Ebert appeared on stage and interviewed guests, but his role at this year’s festival will be limited to that of an audience member as he continues to recover from a long illness.

This year’s schedule of films, with the current lineup of guests:

**Wednesday, April 25**
7 p.m. – “Gattaca” (1997)

**Thursday, April 26**
12:30 p.m. – “The Weather Man” (2005)
3:30 p.m. – “Moolaade” (2004)
8:30 p.m. – “Perfume: The Story of a Murderer” (2006)

**“Come Early Morning”** (1 p.m. April 27) is a character study starring Ashley Judd as a small-town woman caught in a pattern of drunkenness and one night stands, but who also holds down an important job and goes to church with her father.

**Friday, April 27**
11:30 a.m. – “Holes” (2003)
2:30 p.m. – “Man of Flowers” (1983)
5 p.m. – “Strouzek” (1977)
10:30 p.m. – “Searching for the Wrong-Eyed Jesus” (2005)

**Saturday, April 28**
11 a.m. – Noon – “Beyond the Valley of the Dolls” (1970)
3:30 p.m. – “Come Early Morning” (2006)
7:30 p.m. – “La Dolce Vita” (1960)

**Sunday, April 29**
Noon – “Beyond the Valley of the Dolls” (1970)
7 p.m. – “Stroszek” (1977)

Panel discussions and presentations on film-related topics, all free and open to the public:

**Thursday, April 26**
9:30-10:30 a.m. – Panel discussion “The Role of the Film Critic in Contemporary Distribution Practices,” moderated by Nate Kohn, the director of Ebertfest and a professor of journalism and mass communications at the University of Georgia. (Pine Lounge, Illini Union)

**Friday, April 27**
9:10 a.m. – Panel discussion “Politics in Movies, Movies in Politics,” moderated by Eric Pierson, a professor of communication studies at the University of San Diego. (Pine Lounge)

**Saturday, April 28**
9:11-10:30 a.m. – Mini-seminar “Bringin’ It All Back Home: The Principles of Independent Filmmaking,” conducted by Michael Wiese, a filmmaker, author and publisher. Wiese, a Champaign native who attended University High School, will share his experiences of independent filmmaking, using film clips from his own productions. (General Lounge, Illini Union)

**“Moolaade” (3:30 p.m. April 26) centers on the subject of female circumcision in an African village.**

Tickets for individual films will go on sale April 6 through the theater box office, 356-9063. The price will be $10 each for regular admission and $8 each for students and senior citizens.

Those seeking additional information and updates on films, guests and festival events should contact either Mary Susan Britt, at 244-0552, or by e-mail at marsue@uiuc.edu, or festival director Nate Kohn, at 706-542-4972, or by e-mail at nate.kohn@gmail.com. ✦

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**BRIEFS. CONTINUED FROM PAGE 17**


- A reception after Watson’s talk will feature posters presented by 60 undergraduate and graduate students; artwork from students, faculty and staff members, and community members; and exhibits by Building a Lasting University Environment grant recipients, Earth and Society grant recipients, and other campus environmental programs.

- A panel discussion titled “Putting Knowledge to Work: Designing a Sustainable Agricultural System” (3:30 to 5 p.m., Illini Union) solicited.

Environmental Horizons will be a carbon neutral event. All carbon emissions, including emissions from participant and speaker transportation, speaker hotel rooms, electricity use at the Illini Union, food preparation, poster preparations and incidental carbon emissions, will be offset by planting trees and investing in renewable energy technology, such as wind turbines and solar panels. A $1 voluntary registration fee will be requested from participants to purchase these offsets.

For more information about Environmental Horizons 2007 and a complete agenda can be found at www.environ.uiuc.edu/horizons.htm.
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facilitate maintenance of a healthy mind into late adulthood.

“Dr. Rozen’s RealAge theory is particularly relevant to research by Center for Healthy Minds investigators, who are examining intervention strategies that may maintain and improve cognitive function in older adults,” said Denise C. Park, co-director of the Center for Healthy Minds.

A book signing will take place after the lecture.

This event is free and open to the public, but tickets are required. They are available through the Krannert Center ticket office by calling 333-6280 or 800-KCPATIX or online at www.krannertcenter.com. There is a ticket limit of four per person.

Opening address by CDC expert

Ecology of infectious diseases explored

Some of the nastiest pathogens threatening global human health will be on the agenda at the 10th annual Conference on New and Emerging Infectious Diseases, on April 19 and 20 at the UI College of Veterinary Medicine.

Leading scientists from various disciplines will cover:

• New diseases such as Ebola, hantavirus and echinococcosis that have emerged in various parts of the world
• Known diseases such as tuberculosis, American trypanosomiasis and rabies that remain a major threat to human and animal health.

The goal of the conference, which is hosted by the UI Center for Zoonoses Research, is to promote interdisciplinary research efforts and to call attention to the problems that infectious diseases pose locally and around the world.

The public is invited to attend the opening address by Marta Guerra, a senior staff veterinary epidemiologist at the Centers for Disease Control and Prevention and a Ph.D. graduate of the College of Veterinary Medicine. Her talk, “Investigations and Responses at CDC: Epidemiology in Action,” takes place at 5:30 p.m. April 19 in the Large Animal Clinic Auditorium. Parking is available at 2001 S. Lincoln Ave., Urbana.

The conference will continue April 20, with six additional speakers and a poster presentation.

Dr. Roberto Docampo, former scientific director of the Center for Zoonoses Research, returns to Urbana to speak on “Novel Targets for the Treatment of Trypanosomiasis.” Docampo is a Sanford Orkin Eminent Scholar at the University of Georgia’s department of cellular biology.

The conference is co-sponsored by these UI units: Center for Zoonoses Research, College of Veterinary Medicine department of pathobiology, Environmental Council’s Earth, Host-Microbe Systems Theme of the Institute for Genomic Biology, Program in Arms Control, Disarmament, and International Security, and by the Conservation Medicine Center of Chicago.

For more information on conference speakers, schedule, scientific poster presentation and registration, visit www.cvm.uiuc.edu/icd/.

Cool it

F&S shifts from heat to AC

Facilities & Services has begun its annual transition from heating to cooling. This transition can take up to several weeks to ensure all buildings are properly converted and regulated. F&S staff members are asking for help during this transition.

• If you open windows in a room to regulate temperature, remember to close them when you leave the area.
• If you rely on a window air conditioning unit for cooling, consider having it serviced in the beginning of the year. Direct questions, comments or concerns to the F&S Service Office, 333-0340.

April 19-24

Journalists from Europe and Asia to visit

Fourteen journalists from Eastern Europe and Central Asia will visit the UI campus April 19-24 as part of an initiative by the U.S. Department of State.

The group is one of 11 from different regions of the world participating in the second year of the Edward R. Murrow Journalism Program. Each group, as part of a three-week visit to the U.S., will visit a different university or college campus and its respective journalism school.

“We hope the journalists learn about our version of a free press and why we think a critical and vigilant press is so important,” says Louis Liebovich, a professor of journalism at Illinois and the organizer of the local visit.

As part of their five days in Champaign-Urbana, the journalists will sit in on several journalism classes, visit the WILL broadcast studios and the News-Gazette, attend a performance at Krannert Center for the Performing Arts, and tour some local sites.

They also will attend two panel discussions, the first featuring faculty members from the journalism department and from the Russian and Eastern European Studies Center, on cultural differences between Eastern Europe and Central Asia and the U.S. The panel will begin at 2 p.m. on April 20 in Room 225 of Gregory Hall.

The second panel, involving journalism faculty members and local journalists in a discussion on the First Amendment, will begin at 10 a.m. on April 21 in Room 336 of Gregory Hall.

Both panel discussions are free and open to the public.

McCarthyism and academic freedom

UI alumnus returns to campus April 17

Courtney Cazden, professor emeritus of the Harvard Graduate School of Education and UI alumnus, will return to the UI campus to share her story of the personal costs when civil liberties collide with zealous patriotism.

The title of her lecture and discussion is “McCarthyism, Academic Freedom and the University of Illinois: A Community Stand for Civil Liberty and a Personal Account.” The event is 4-5:30 p.m. April 17 at the Krannert Art Museum auditorium.

In 1953, McCarthy supporters advanced Illinois legislation that threatened civil liberties of state residents. At the time, Cazden was working toward a master’s degree in education at the UI, and her husband, Norman, was a professor of music. They found themselves part of a local committee that organized significant local and statewide public opposition to the proposed bills—a fight that ended successfully. But, while the community celebrated a victory for personal rights, later that spring, the Cazdens found themselves facing the power of the McCarthy movement at a personal level. Norman was denied tenure and his contract terminated based on anonymously presented evidence of Communist Party connections. A year later he testified before the House Un-American Activities Committee, invoking his Fifth Amendment Rights. For more information, visit www.ed.uiuc.edu.
Lectures

Friday


“Rethinking the Cold War in the Middle East,” R. Khalil Khalil, Columbia University. 4 p.m. Third floor, Far-

City Center. MillerCumm and Program in South Asian & Middle Eastern Studies.


“Neonuance: Contemporary Experimental Writing.” Harry Gamache, University of Illinois. 2 p.m. Union Theological Seminary, Christian Church Women’s Lecture Room.

“Chemistry and the Closed Fuel Cycle.” Alfred P. Satterfield, Argonne National Laboratory. 4 p.m. 112 Chem Anomy. Inorganic Chemistry.


“Dreams and Visions in Mo- voran准确。activist. 4 p.m. 180 Biever Hall. Democracy in a Mul- iverse Social.”

“Spin-Based Semiconducting Heterostructure Devices.” Pallab K. Bhattacharya, Uni- versity of Michigan. 4 p.m. Department of Electrical and Computer Engineering.

“To Build a Biofilm,” George A. F. Teulé, Dartmouth Medical School. 4 p.m. 8102, Chemical and Life Sciences Laboratory.


“Improving Railroad Network Performance at IN- BFSN Railway. 11:45 a.m. 335 Orange Engineering Library. William W. Hay Railroad Engi- neering Seminar/Civil and En- vironmental Engineering.


“Laser-Induced Breakdown Spectroscopy: An Emerging Tool for On-Site Analysis and Discrimination,” Xiaohua Lu. 4 p.m. 112 Chemistry Laboratory. Electrical and Computer Engineering.

“Creating Chronic Wasting Disease in Northern Raven’s.” Tamera Faisal, University of Kansas. Noon. 101 International Studies Building.

“The Molecular Basis of Eu- lerian Cycle.” Johannes Larsson, University of Washington. 2 p.m. 112 Chemistry Laboratory. Biochemical Engineering.

“Self-taking as the Hit- ing for Everybody & the Hit- ing for Everyone.” Ana D. Castellanos. Noon. 6:30 p.m. 325 Temple Memorial. Political Science.

“Eating Marginalized Identities” Mario Cordero, University of Illinois. Noon. 911 S. Sixth. Women and Gender Studies.

“Applying the Theory of Networks/ Supercomputing Applications.” David S. Hightower, University of Tennessee. 10 a.m. 2405 Krannert Center. Science.


“Graphical Models: Condi- tional Random Fields (CRFs) and Discriminative Random Fields (DFFs);” Mei Duk Kim and Quanyuan Au. 2 p.m. 3 p.m. 321 Engineering Research Seminar/Veterinary Medicine.

“New Wave of Native American-Ethnic American History.” Annette Steel and Susan DeSilva, UI. 10 a.m. 911 S. Sixth. Women and Gender Studies.


“Barred Fraunchesy, An As- surance for Ethics in Business.” Judy Leroy, Illinois. 4:30 p.m. 108 Engineering Language Building.


“Biology of the Cultural Human.” Dominique Kalifa, Universite Charles de Gaule. 11 a.m. 211 Union Library. French.

“Voting ‘Yes’ or ‘No’ in the 21st Century.” Rog- er Kuenker, Stanford School of Medicine. 4 p.m. 274 MSB Auditorium. Advus Dose in- dustry.

“Scientific Controversy and Rev- erentizing.” Harry Gamache, University of Illinois. 2 p.m. Union Theological Seminary, Christian Church Women’s Lecture Room.

“Methodologies and the Can- nibalization of the Neuro- logical Species (injectosomes)” Daniel Matz, Johns Hopkins University, St. Louis. 10:30 a.m. 215 Biomedical Science Lab.


“Arab Writers in Exile.” Dominique Calvet, Universite Charles de Gaule. 11 a.m. 211 Union Library. French.

“Rhetoric of Native American Mascotting.” Jason Edward Black, University of Alabama. 2 p.m. 202 D.H. Hill Library.
Friday

**Theater**

*An Imaginary Invalid.* Tom Mitchell, director. 7:30 p.m. Studio Theatre. Krannert Center. $8.50. 425/217-5000.

**Theatrical Reading**

“Who’s Afraid of Bedlam?” 7:30 and 11:45 p.m. 160 Armory. Recital Hall. Crawford Hall. $8.50. 425/217-5000.

**Jazz Forum**


**Free Jazz**


**Doctor of Musical Arts Recital**

Monday. 7:30 p.m. Recital Hall, Smith Hall. Free. 425/217-5000.

**Doctor of Musical Arts Recital**

Tuesday. 7:30 p.m. Recital Hall, Smith Hall. Free. 425/217-5000.

**Master of Music Recital**

Wednesday. 7:30 p.m. Recital Hall, Smith Hall. Free. 425/217-5000.

**Tuba-Euphonium Ensemble**

Friday. 7:30 p.m. Recital Hall, Smith Hall. Free. 425/217-5000.

**UI Symphony Band and UI Concert Band I**

Friday. 7:30 p.m. 160 Armory. Free. 425/217-5000.

**UI Wind Symphony and UI Symphonic Band II**

Friday. 7:30 p.m. 160 Armory. Free. 425/217-5000.

**UI Wind Symphony and UI Symphonic Band**

Friday. 7:30 p.m. 160 Armory. Free. 425/217-5000.

**UI Women’s Tennis**

Friday. 6:05 p.m. Illinois Field. Free. 425/217-5000.

**UI Men’s Tennis**

Friday. 6:05 p.m. Illinois Field. Free. 425/217-5000.

**UI Softball**

Friday. 6:05 p.m. Illinois Field. Free. 425/217-5000.

**UI Volleyball**

Friday. 6:05 p.m. Illinois Field. Free. 425/217-5000.

**UI Men’s Tennis**

Tuesday. 6:05 p.m. Illinois Field. Free. 425/217-5000.

**UI Softball**

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**UI Volleyball**

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**UI Women’s Tennis**

Tuesday. 6:05 p.m. Illinois Field. Free. 425/217-5000.

**UI Men’s Tennis**


**UI Men’s Tennis**


**UI Men’s Tennis**


**UI Softball**

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