Novel computed imaging technique uses blurry images to enhance view

**By James E. Kloepel**

UI researchers have developed a novel computational image-forming technique for optical microscopy that can produce crisp, three-dimensional images from blurry, out-of-focus data. Called Interferometric Synthetic Aperture Microscopy, ISAM can do for optical microscopy what magnetic resonance imaging did for nuclear magnetic resonance imaging, and what computed tomography did for X-ray imaging, the scientists say.

“ISAM can perform high-speed, micron-scale, cross-sectional imaging without the need for time-consuming processing, sectioning and staining of resected tissue,” said Stephen Boppart, a professor of electrical and computer engineering, of bioengineering, and of medicine at the UI, and a co-author and lead author Tyler Ralston, research scientist at the Beckman Institute for Advanced Science and Technology. Boppart also is affiliated with the university’s Micro and Nanotechnology Laboratory and the Institute for Genomic Biology.

In addition to previously mentioned affiliations, Boppart, Carney, Marks and Ralston hold positions within the department of electrical and computer engineering and are affiliated with the UI’s Beckman Institute for Advanced Science and Technology. Boppart also is affiliated with the university’s Micro and Nanotechnology Laboratory and the Institute for Genomic Biology. Carney also is affiliated with the university’s Coordinated Science Laboratory.

The National Institutes of Health, National Science Foundation and the Beckman Institute funded the work.

—By Mark Reutter

**Restoring democracy**

Law scholar travels to Thailand as nation ponders 18th constitution

By Mark Reutter

News Bureau Staff Writer

Thailand has drafted 17 constitutions since becoming a constitutional monarchy in 1932. Will an 18th constitution help restore democracy, which ended last September after a military coup ousted Prime Minister Thaksin Shinawatra?

“There is some chance that Thailand will revert to a stable pattern of democracy, but there are a number of wild cards, and things could end up in a pattern of renewed instability,” said Tom Ginsburg, a UI professor of law who traveled to Thailand last month. Ginsburg directs the law school’s program in Asian law, politics and society, gave presentations in Bangkok and Chiang Mai to academics, government officials and civic groups, and gave a keynote speech at a seminar on constitutional law hosted by King Prajadhipok’s Institute, one of Thailand’s oldest.

His talks were aimed at providing legal background as Thailand begins to write a new constitution in preparation for a return to democratic rule. The military government has promised to complete the new constitution by October 2007 and hold free elections.

“Many in Thailand were in favor of the coup because of the problems of corruption by the ousted prime minister,” Ginsburg said. “But my own view, which I noted in my presentations, is that long-term democracy and stability are incompatible. At some point, the Thais need to develop institutions that function independently of the personalities in office at any particular time.”

Ginsburg said a stable democracy is particularly urgent now because Thailand’s constitutional monarch, King Bhumibol Adulyadej, is 79 years old. The monarch has ruled for more than 60 years and is credited as a moderating force among the country’s contentious political factions.

The bloodless coup came after Prime Minister Thaksin dissolved the Thai parliament for new elections, which were so poorly administered that the country’s constitutional court ordered a re-vote. Thaksin never complied.

“The 1997 Thai constitution was a very good one. But probably no constitution could have withstood the challenges of a populist billionaire (Thaksin) who corrupted every institution,” Ginsburg said.

**Constitutional stability**

Law professor Thakoon Prasong provided legal background to Thailand as the country begins to write a new constitution in preparation for a return to democratic rule.
Montgomery named new trustee, Eppley retained as chair

By Sonya Booth

UIC News Bureau

A former congressional counsel for the city of Chicago who heads the Chicago office of the nation’s largest personal injury law firm became the newest member of the UI Board of Trustees on Jan. 18 as it meets at the UIC campus.

Susan Montgomery, a graduate of the Urbana campus with degrees in law and political science, James D. Montgomery is a lawyer with Cochrans, Cohen, Gavins, Smith and Montgomery.

At the trustees’ meeting, trustee Dev-

or Brace, also a Chicago lawyer, praised Montgomery’s “legendary trial skills” and “unwavering integrity.”

Montgomery was appointed to the board by Gov. Rod Blagojevich to fill the seat for-merly held by Marjorie Sodeman, a Cham-

pagy County Republican legislator who was appointed by former Gov. George Ryan in 2001.

The Academy for Entrepreneurial Leadership

The fellows represent nine diverse col-

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ctions and regional planning, “Social Inequality and Planning”

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A final version of the proposed program –

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Three faculty members receive entrepreneurial honors

The Academy for Entrepreneurial Leader-

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The fellows represent nine diverse col-

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n the first two floors and offices upstairs.

The College of Liberal Arts and Sciences

represents the heart and soul of the uni-

versity,” said Chancellor Richard Herman.

Other action taken at the meeting in-

cluded:

■ Approval of an agreement between the

iversity and the city, as part of a bid to host the 2016 Summer Olympics, to host boxing matches in the UIC Pavilion and the possible construction of an aquatic facilities on the UIC cam-

pus.

■ “This is no way obligates the universi-

ty to any spending,” UIC Chancellor Sylvia堀内 said.

■ Approval of a $66.4 million proj-

ect to renovate Lincoln Hall at Urbana, with funding from state appropriations and pri-

ate sources.

The project will include deferred

maintenance, improvements to all building

systems, renovation of the auditorium and recently completed and on the first two floors and offices upstairs.

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versity,” said Chancellor Richard Herman.

“A lot of students are very happy that this plan is progressing,” added Urbana student trustee Christopher Kanton.

■ Approval of a proposal to es-

tablish the School of Literature, Culture and Memory. “We’ve got to save College of Urbana. Pending approval of the Illinois Board of Higher Education, the school will comprise the departments of classics, East Asian languages and literatures, Ger-

manic languages and literatures, Slavic languages and literatures, and Spanish, Italian and Portuguese; the programs Comparative and World Literature and for the Study of Religion; the Division of Eng-

lish and Comparative Literature; Language, and the Unit for Cinema Studies.

■ Approval of about $6.5 million in con-

tracts to rebuild and maintain the eleva-

tors in six campus buildings at UIC.

New Global Campus Partnership revealed to trustees

Several trustees questioned White, Gard-

er and Bodenhorn about ensuring the same
type of quality of education offered by tradi-
tional courses.

A final theoretical degree program can be ac-

cessible and affordable, “but it cannot be a second-class product,” said trustee Robert Spal
ger, a former Illinois secretary of state.

The proposal does carry some risk, White said.

“We need a line of credit from the uni-

versity of up to $20 million. If this venture fails, we won’t get it back,” he said, adding that the importance of online educa-

tion to the university’s mission and the op-

portunity to become a leader in the future of higher education make the venture worthwhile.

“Even if it’s a break-even operation, we ought to do this.”

A final version of the proposed program – which would offer undergraduate and gradu-

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On the Job

Todd Creason

By Sharita Forrest
Assistant Editor

Crime decreased significantly in all categories, particularly the number of robberies, in the UI campus reporting district, according to statistics for the fall semester of 2006 reported by the UI Division of Public Safety.

The statistics also reflect a revised methodology for reporting the number of aggravated assaults and batteries on campus.

In reviewing past years’ crime statistics that were reported in compliance with the Jeanne Clery Act, UI police noticed a significant difference in the number of aggravated assaults reported for the Urbana campus compared with peer institutions.

Other universities report only those crimes involving substantial bodily injury and/or a weapon, whereas Illinois was reporting all incidents, including those that involved only minor injuries to victims, police officers or both.

UI police began reporting aggravated assaults and batteries using the revised criteria effective with the Clery Act reports for 2005, and to standardize its reporting, applied it to the accompanying crime map and data comparison for the period from Sept. 1 to Dec. 31, 2006.

“This methodology aligns the UI’s reporting with that used by our peers and gives a more accurate representation of the level of crime on our campus compared with similar institutions,” said Kristal Fitzpatrick, interim chief of police.

During the reporting period, 14 aggravated assaults and batteries occurred in the campus district.

Of the 14 victims of assaults and batteries, the majority (12) were men attacked by strangers between 9 p.m. and 6 a.m.

Two other incidents involving the victim and/or the suspect was a factor in many of these crimes.

Robberies declined 47 percent, to 17 from 32 during the same period in 2005 and 22 in 2004. The majority of the victims were male students robbed by strangers.

The number of reported crimes of a nonsexual nature declined to seven, from 11 during the same period in 2005. During the fall semester of 2004, eight criminal sexual assaults were reported.

One only report of a peeping tom and public indecency was made during the fall semester 2006, versus eight such incidents during the fall semesters prior the two years.

For assaults with prior crimes, victims were concentrated in areas adjacent to the university campus, rather than on UI grounds, particularly in the northwest quadrant, an area roughly bounded by University Avenue on the north, Gregory Drive on the south, and Wright Street on the east and the railroad tracks just east of Neil Street on the west.

Although we are encouraged by the decline of this past semester’s crime statistics, we must not embrace a false sense of diminishing awareness,” said Jeff Christensen, assistant chief of police. “All of us within the campus community must continue to demonstrate sound crime-prevention practices.

“Taking away the opportunity for a crime to be committed and reporting suspicious behavior are important. The dramatic decline in robberies during the fall semester was the result of increased public awareness following our October Public Safety Bulletin coupled with the outstanding work of our officers and neighboring agencies in identifying and arresting offenders.”

The bulletin was e-mailed to the campus, posted on our Web site (www.pso.uiuc.edu) and received coverage by the news media.

As always, police urge people to exercise good judgment or “situational awareness” responsibly, as drinking too much increases the likelihood of becoming involved in a crime.

Pedestrians are encouraged to walk with other people, to be alert to their surroundings and, if they have cell phones, to keep them out of their pockets.

People also are encouraged to take buses or call SafeRides (265-7433) between 5 p.m. and 6:15 a.m.

“It is important to remember that crime trends are just that—trends—and should not be a sign to forgo establishing and maintaining good safety habits,” Fitzpatrick said.

“The UI police provide the campus community with traditional police services but also are available to give presentations on personal safety. The publication of the crime statistics is intended to keep our community informed as well as warned. But learning how to diminish the chance of becoming a victim is just as important, and we encourage students and faculty and staff members to visit our Web site (www.dps.uiuc.edu) to find out more about our personal safety services.”

The UI crime report includes incidents that occurred in an area extending from University Avenue on the north to Windsor Street and the railroad tracks just east of Neil Street on the west.

The numbers of crimes for the UI district are reported three times annually and in new student orientations and campus crime prevention programs.

Number of reported crimes on UI campus dropped in fall

While Todd Creason was attending Oakwood High School, he discovered he had a fondness for numbers, and that affinity for numbers became his life’s work.

Creason, who is the program administrative assistant for the business office in the Office of Technology Management, began his career with the UI as an extra help secretary in 1997 and became a full-time employee in 1998.

He spent five years as an accountant for the Illini Union’s Student Programs and Activities Office before joining the Office of Technology Management three years ago.

Creason also is a new father; his daughter, Kathryn Marie, was born in December.

What are your job responsibilities?

It’s a very diversified job since we do everything from paying legal invoices for patient protection costs to paying royalties to inventors and campus units who create the technologies.

We also license inventors of technologies, so we have lots of different types of customers that we deal with.

One of the fringe benefits of my job is seeing all the innovations that faculty and staff members and students come up with.

There are a wide variety of technologies that have been developed here in a number of different areas, from engineering and agriculture, to computer software and electronics.

We have pictures of some of our most notable inventors, along with their technologies, featured in our “Hall of Innovation” as you come into our office.

What is your favorite part of your job?

The best part of this job is the staff that we have here.

This is one of the best work experiences I’ve had. The people are all focused on the same goals.

While we don’t always agree on how we’re going to get there, we’re all trying to get to the same place.

What are the challenges of your job?

I used to see the level of detail that it requires as a down side, but it’s really a plus.

The variety and complexity of the work we do makes this interesting.

We’re never doing the same things every day, so there’s not the redundancy that I’ve found in a lot in the accounting field.

We’re always dealing with the receptionist rather than the rule.

What was your work background before you joined the university?

My first job was with a music store when I was in high school, and that’s where I found I had the ability to do accounting.

I’ve played piano in various bands and musical groups on and off for more than 25 years.

When I get a chance, I also enjoy fishing a great deal.

I’ve also managed a convenience store chain for 10 years. I started out as an assistant store manager and worked my way up to being an area manager.

Then I was the accountant for a small company in Danville for four years before I came to the UI.

What do you like to do when you’re not working?

I read constantly. I like American history, so I read a lot of biographies and historical accounts.

Music is also a big part of my life, both listening to and playing it. I’ve played piano in various bands and musical groups on and off for more than 25 years.

When I get a chance, I also enjoy fishing a great deal.

These days, I spend most of my recreational time in freemasonery.

I belong to the Scottish Rite, Valley of Danville, which is particularly in the northwest quadrant, an area

The Masonic Lodge in Danville and spend a lot of time with their meetings and activities.

I also belong to the Scottish Rite, Valley of Danville, which is a branch within the Masons.

They do a lot of work with children’s charities and are now raising money to build a learning center for dyslexic children in Danville.

The Scottish Rite, which has more than 50 of these centers already open, will train the teachers, and the services will be provided free to the parents of the children who need them.

It also allows me to travel and meet new people.

I went to the Scottish Rite Reunion in Indiana in November.

The Ogden Masonic Lodge is getting ready to do an IL CHIP – Illinois Child Identification Program.

Parents can bring their kids to the Ogden Masonic Lodge to be videotaped and fingerprinted to aid in identification in case a child gets lost or is missing.

– Interview by Sharita Forrest
Assistant Editor

photo by L. Brian Stauffer
Exercise appears to improve brain function among younger people

By Melissa Mitchell
News Bureau Staff Writer

As an expanding body of work continues to confirm links between exercise and improved brain function in older adults, a new study by researchers at the UI and Vrije Universiteit in Amsterdam suggests similar improvements among younger populations as well.

"Physical activity may be beneficial to cognition during early and middle periods of life and protect against age-related loss of cognitive function during older adulthood," said Charles H. Hillman, a UI professor of kinesiology and community health and the lead author of the study, published in the current edition of the journal Health Psychology.

Hillman said the findings support the need to promote the benefits of regular exercise across the lifespan, beginning in childhood. And, he said, more research is needed to gain a better understanding of the relationship between physical activity and cognition for people of all ages.

"It is important to begin studying individuals during early adulthood, and especially childhood, as early intervention may be more beneficial. That is, why wait until individuals are older and have been sedentary to intervene? Why not demonstrate the prophylactic effects of exercise on cognition at an earlier age, if there is indeed an effect?" Hillman noted that most previous research to date indicating positive relationships between physical activity and cognitive function has been focused primarily on older populations. The current study considered data collected by Hillman’s Dutch colleagues from 241 people aged 15-71 living in the greater Amsterdam area.

Participants reported their physical-activity behavior and completed a series of tests designed to indicate task-performance capabilities. The tasks, which measured subjects’ reaction time and response accuracy when presented with congruent and incongruent visual patterns, involve cognitive processes known as executive control function (ECF).

ECF, Hillman said, "refers to a subset of processes – planning, scheduling, working memory, inhibition, task coordination etc. – involved in the intentional component of environmental interaction." In other words, he said, while carrying out these activities, "the individual cannot go on autopilot. Further, the task never habituates, meaning that each time the task is presented, it requires control."

After controlling for gender and IQ – factors related to physical activity participation or cognitive function – the researchers documented slower reaction times of less active participants compared with younger subjects, and improved (faster) reaction time with increased physical-activity participation. Among older participants, those who indicated they were physically active demonstrated improved performance in reaction time and response accuracy.

Physically active younger participants registered improved reaction times. However, Hillman said, there was no significant correlation between physical activity and response accuracy among that group.

In general, he noted, the study results supported conclusions of previous research by UI psychology and neuroscience professor Arthur F. Kramer and colleagues linking physical activity to improved performance on tasks with large executive components. But Hillman’s team also observed improvement on tasks with small executive components, “indicating a general relationship of physical activity to cognitive performance that is selectively larger for ECF.”

Hillman described tasks with large executive control components as those requiring “inhibition of habitual responses, such as stepping on the brake when the light changes from red to green because a cyclist jumps out in front of the car.”

Another example, he said, involves “the management of interference within an environment – for example, detecting a street sign amid a visually confusing environment.” Greater levels of ECF are also present when “switching between cognitive tasks,” or, in simple, everyday terms – multitasking.

Among the study’s older physically active participants there was a “disproportionately larger influence of exercise.”

**Ad removed for online version**

**Ad removed for online version**
Turning out a new breed of engineers

David E. Goldberg, a UI professor of engineering, has written a new book that aims to create a new breed of engineers through focus on personal, interpersonal and organizational skills.

“The Entrepreneurial Engineer” (Wiley, 2006) challenges universities to stop turning out Dilbert-like technocrats and start turning out engineers with the combination of technical, business and people skills necessary in an age of opportunity.

“During the Cold War, engineers worked for one large organization for most of their careers, and they worked in a narrow technical specialty largely on their own or in a homogeneous group of like-minded specialists,” Goldberg said. As a leader in the field of genetic algorithms and as a co-founder of Web startup Nextumi Inc., Goldberg understands that engineers today must combine passion, communication and innovation to survive and thrive.

“Today’s engineer is on another planet,” he said. “Careers are fast-paced. Companies need to embrace pervasive change and opportunity.”

Others see the book as an important contribution.

Electronic Design Online says: “Goldberg’s writing style is conversational and highly readable; the book carries enough illustrative material to amplify its points. All told, it’s a worthy read for anyone thinking of striking out on their own as an entrepreneurial engineer.”

Tim Schigiel, director of Blue Chip Venture Co., highlights the book’s understanding of passion in the creation of technology. “The main message of this book – and the secret that Dr. Goldberg is conveying – is that the passion for the idea, doing what you love, and having the persistence required to bring ideas to reality are the fuel of innovation. Without them, the world will not change, and the idea will stay in the notebook.”

Integrating non-technical material into the engineering curriculum remains controversial as engineering degree programs are filled to the brim with technical subjects. Nonetheless, Goldberg believes that engineering schools need to change or they risk becoming increasingly irrelevant.

“Engineering colleges have not kept up with the pace of innovation,” he said. “Their curricula and research programs are in many ways legacies of the Cold War. Other nimble curricula or programs will evolve unless colleges of engineering can better embrace pervasive change and opportunity.”

Paying homage to an American author

American literary history is about to change. An early Native American writer who has been a largely forgotten figure is entering the canon and getting the recognition she has long deserved.

A new book brings out for the first time the “remarkable body of writing” of Jane Johnston Schoolcraft and the fascinating story of her life and work.

So says Robert Dale Parker, the author of “The Sound the Stars Make Rushing Through the Sky” (University of Pennsylvania Press). Parker is a UI English professor and an affiliate of its American Indian Studies Program.

Jane Johnston Schoolcraft (1800-1842) was an Ojibwe Indian from the Great Lakes Country who wrote prose and verse, and who also collected, translated and preserved her people’s oral stories and legends. Other Native American authors collected and wrote many of the stories that would be published in adapted, unattributed versions by her husband three years before she died.

Henry Rowe Schoolcraft (1793-1864), has gotten most of the credit for collecting and publishing the Ojibwe stories.

“Henry certainly put a lot of work into gathering it all together, supervising it all, editing what Jane, her brother William and many other Indian people contributed. But he did the work in a way that obscured the contributions of Jane and other Indian people.”

In his book, Parker untangles the complicated, even confounding, literary record – multiple drafts, multiple and illegible handwritings and plain old literary sleight of hand – to make the case that Jane Schoolcraft collected and wrote many of the stories that would be published in adapted, unattributed versions by her husband three years before she died.

Jane would go on to write about 50 poems in English and Ojibwe, at least eight traditional, previously oral, Ojibwe stories, in English; transcribed and translated an assortment of Ojibwe oral texts, including 10 songs, sometimes in both Ojibwe and English; and wrote or translated a handful of additional pieces of nonfiction prose.

“…Jane Schoolcraft offers a history and a specially valuable model of bilingual and multilingual life and writing for American Indians and for American culture and literature at large.”

Until now, Jane’s husband, the Indian agent Henry Rowe Schoolcraft (1793-1864), has gotten most of the credit for collecting and publishing the Ojibwe stories.

“Henry certainly put a lot of work into gathering it all together, supervising it all, editing what Jane, her brother William and many other Indian people contributed. But he did the work in a way that obscured the contributions of Jane and other Indian people.”

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By Andrea Lynn, News Bureau
Chickens may help aid in early detection of ovarian cancer

By Bob Sampson
Extension Communications Specialist

Understanding and treatment of human ovarian cancer, known as the silent killer, may be a step closer thanks to some chickens at the UI. Ovarian cancer is the fourth leading cause of cancer deaths in women and unlike other cancers, its rate of mortality has not been reduced.

“That’s because ovarian cancer is usually not detected until it is in the third or fourth stage when it has metastasized and spread to other parts of the body,” said Janice Bahr, a professor of physiology in the department of animal sciences and one of the nation’s leading poultry researchers.

Bahr is part of a research project involving the UI’s Urbana and Chicago campuses and Rush University Medical Center that is looking for clues to human ovarian cancer in chickens.

“Scientists have tried for years to develop a model for ovarian cancer in rats but have not been successful. However, the chicken is the only animal that spontaneously develops ovarian cancer,” she said.

Dale Buchanan Hales, a professor of physiology and biophysics at UIC, said that about 50 percent of hens develop ovarian cancer.

“A 2-year-old hen is at the same reproductive age as a middle-aged woman, the time when ovarian cancer usually develops,” he said.

And chickens and humans tend to develop the same type of ovarian cancer, one that develops on the surface of the ovaries,” Bahr said. 

Because the rate of ovarian cancer in hens is so high, the research team will be able to track hens from before they develop the disease and on into its later stages. That tracking might provide clues that could be used to better predict ovarian cancer earlier in humans.

The Rush University team, led by Judith Luborsky and Animesh Barua, are looking for markers in the blood that could lead to a test that would be equivalent of the current blood test for prostate cancer in men.

“They’ve already found a change in blood proteins over time,” Bahr said. “Ideally, they will be able to find a marker.”

Another aspect of the study involves the use of ultrasonography to detect ovarian cancer in chickens. Dr. Jacques Abramowicz and Barua, Rush University Medical Center, have thus far found that pathological sonographic changes associated with ovarian cancer in chickens are similar to those detected in women with ovarian cancer.

Not only are chickens a good model for studying ovarian cancer and plentiful at the UI Poultry Farm but there also are extensive genomic resources available for research.

Hales’ group of researchers is investigating cancer-associated changes in gene expression patterns using these chicken genomic resources.

“The chicken is the largest meat animal in terms of consumption in the world,” Hales said. “As a result of its dietary and agricultural importance, the chicken genome has been sequenced and the resources available are outstanding.”

Hales’ group of researchers is investigating cancer-associated changes in gene expression patterns using these chicken genomic resources.

“We are utilizing DNA microarrays which represent more than 13,000 different chicken genes to investigate,” Hales said. “This discovery approach will enable the research team to investigate the same changes in gene expression in human ovarian cancer.”

Grants from the Department of Defense and the American Institute of Cancer Research currently fund the project for three to five years, and two other grants are pending that could carry it into the next decade.

Early detection
Researchers are tracking chickens from the moment they develop ovarian cancer and on into its later stages in an effort to find clues that could be used to better predict ovarian cancer earlier in humans. Researchers shown, front row, left to right: Jacques Abramowicz, Rush University Medical Center; Janice Bahr, UI professor of physiology; Keith Holub, clinical applications specialist, Zonare Medical Systems. Back row: Animesh Barua, Rush University Medical Center; Angela Dirks, UI graduate research assistant in animal sciences; and Chet Utterback, foreman, UI Poultry Research Farm.
UI researchers resolve controversy of hydrophobic surfaces

By James E. Kloeppel
News Bureau Staff Writer

There may be tiny bubbles in the wine, but not at the interface between water and a waxy coating on glass, a new study shows.

The behavior of water when placed in contact with hydrophobic (water-repellent) surfaces, such as raincoats and freshly waxed cars, has puzzled scientists for a long time. According to a controversial theoretical prediction, water near a hydrophobic surface will pull away and leave a thin layer of depleted water at the surface — that is, water molecules at the interface will pack less tightly than usual.

Now, a team of researchers at the UI and Argonne National Laboratory has resolved the controversy. Using near-perfect hydrophobic surfaces and synchrotron X-ray measurement techniques, the researchers found the theoretical prediction to be correct. They reported their findings in the journal Physical Review Letters.

“Previous experiments have been interpreted sometimes in favor of a depletion layer, sometimes against, and sometimes as indicating intimate solid-water contact in places and ‘nanobubbles’ in others,” said Steve Granick, a professor of materials science and engineering, chemistry and physics at Illinois.

“Part of our study was to help understand why there was so much disagreement in the scientific literature,” said Granick, who also is a researcher at the Frederick Seitz Materials Research Laboratory on campus and at the university’s Beckman Institute for Advanced Science and Technology.

To study the nature of hydrophobicity, the researchers first prepared a nearly ideal hydrophobic surface — a self-assembled methyl-terminated octadecylsilane monolayer. Then they made synchrotron X-ray measurements of the interface between water and monolayer.

The measurements revealed a depletion layer, about one water molecule in thickness. The depletion layer was present with and without air dissolved in the water. Because no nanobubbles were seen, bubbles must not play a significant role in hydrophobicity, the researchers conclude.

The synchrotron X-ray data “unambiguously confirm the theoretical expectation that water, when it meets a planar hydrophobic surface, forms a depletion layer,” the researchers write.

“We found that in a real system — more complicated than the theory assumes — the theory does capture the essence,” Granick said. “The next time I see water beading on a raincoat, my vision of how the water molecules experience that raincoat will be different.”

The research team included Illinois undergraduate student and lead author Adéle Poynor, graduate student Liang Hong, physicist Ian Robinson (now at University College London); and synchrotron X-ray expert Paul A. Fenter and postdoctoral researcher Zhan Zhang, both at Argonne National Laboratory.

The National Science Foundation through the Center of Advanced Materials for the Purification of Water Systems of Illinois, and the U.S. Department of Energy funded the work.

Water-tight theory Steve Granick, professor of materials science and engineering, of chemistry and of physics, has solved the mystery of hydrophobic surfaces. UI research shows that water near a hydrophobic surface, such as the interface between water and a waxy coating on glass, will pull away and leave a thin layer of depleted water at the surface — that is, water molecules at the interface will pack less tightly than usual.
Estrogen interferes with immune surveillance in breast cancer

By Diana Yates
News Bureau Staff Writer

Estrogen is known to enhance the growth and proliferation of breast cancer cells. Now researchers at the UI have found that estrogen also can shield breast cancer cells from immune cells.

In a study published online last week in Oncogene, the researchers report that estrogen induces the expression of an inhibitor that blocks immune cells’ ability to kill tumor cells. This is the first study to identify estrogen’s role in shielding breast cancer cells from the action of immune cells.

The researchers analyzed estrogen’s role in the cascade of events that occurs when immune cells, called natural killer cells, encounter a tumor cell. Under normal conditions, natural killer cells release granules that contain enzymes, called granzymes, which enter and kill the tumor cell.

The research team found that when estrogen binds to an estrogen receptor the complex promotes production of a granzyme inhibitor, proteinase inhibitor 9 (PI-9). The inhibitor binds the granzyme, preventing it from initiating the molecular cascade that kills tumor cells.

“It wasn’t known that estrogen could do this in breast cancer cells,” said principal investigator David J. Shapiro, a professor of biochemistry in the School of Molecular and Cellular Biology. “The amounts of estrogen required to do this are quite small.”

Superbubble of supernova remnants caught in act of forming

By James E. Kloeppel
News Bureau Staff Writer

In N19, we have not one star, but a community of stars, where living and dying stars, stellar-wind bubbles and supernova blasts are working together, but have not yet carved out a full cavity. We are witnessing the birth of a superbubble.

Collaborators on the project with Williams are You-Hua Chu, Rosie Chen and Robert Gruneli at Illinois, and Sean Points and Chris Smith at the Centro-Tololo Inter-American Observatory in Chile. The work was funded by NASA and the Smithsonian Astrophysical Observatory.

HONORARY DEGREES, CONTINUED FROM PAGE 1

Cornell, Harvard, Johns Hopkins, Ohio State, Penn State, Purdue, Rice and the Technical University of Munich.

The presentation included an address by Ouei Sen, grandmaster of the Urasenke Tradition of Tea, a four-year grant was part of $4.75 million awarded by the CME Trust to support a markets information laboratory.

The laboratory, to be housed in the Business Instructional Facility under construction on the southwest corner of Gregory Drive and Fourth Street in Champaign, will conduct research on financial risk and markets and develop course work on the subject.

The CME grant recognizes the high-quality education provided by the college and the important role it plays in educating the next generation of business professionals,” said Aoy Gosh, dean of the college.

The four-year grant was part of $4.75 million awarded by the CME Trust to five Illinois universities for education in financial markets. The other recipients are DePaul University, Northwestern University Kellogg School of Management, University of Chicago Graduate School of Business and the University of Illinois at Chicago.

Inhibiting immunity

David Shapiro, professor of biochemistry, right, and doctoral student Dorret I. Boomsma, Eco J.C. de Geus Oudejans, and undergraduate student Xinguo Jiang report that estrogen induces the expression of an inhibitor that blocks immune cells’ ability to kill tumor cells. This is the first study to identify estrogen’s role in shielding breast cancer cells from the action of immune cells. The flask they are holding contains cancer cells used in the research.

by natural killer cells, they were efficiently killed off, even when significant levels of estrogen and estrogen receptor were present.

Estrogens are known to cause only a few types of cancers, Shapiro said. PI-9 also appears to be important in other cancers, including breast cancer.

The researchers analyzed estrogen’s role in shields against cognitive loss during younger ages. In 1964, he became the 15th generation grandmaster of the Urasenke Lineage. Sen endowed the Soshitsu Sen XV Distinctive Professorship of Traditional Japanese History and Culture at the University of Hawaii and the Soshitsu Sen XV Distinctive Professorship of Japanese Culture at the University of New York. He serves on the boards of directors of several educational institutions within Japan, and is a professor at a number of universities in Japan and abroad, including the Ritsumeikan University in Kyoto, the University of Hawaii, Moscow University, and the Tianjin University of Commerce. In 1991, the Chinese government awarded Sen a doctorate, the first such degree granted to a non-Chinese scholar.

The finding that estrogens stimulate PI-9 production could eventually help drug designers develop new tests — and targets — for breast cancer treatment.

The research team included collaborators from the University of Wisconsin at Madison.

The behavior of matter and energy within a superbubble has implications for the formation of planetary systems, said Williams, who presented her team’s findings at the American Astronomical Society meeting in Seattle on Jan. 9.

“During its life and death, a massive star forms heavy elements that enrich the interstellar medium and form planets,” Williams said. “Our own solar system may have formed within the confines of a superbubble,” said Williams, who uses an analogy with people to help explain her interest in superbubbles.

“Some people live pretty independently in isolated country houses, while others live in large cities that require a centralized infrastructure,” Williams said. “In N19, we are looking at a possible bridge between an individual star living its life and dying its death, and a community of stars, where living and dying affects other stars and planets, and creates a structure around them.”

Collaborators on the project with Williams are You-Hua Chu, Rosie Chen and Robert Gruneli at Illinois, and Sean Points and Chris Smith at the Centro-Tololo Inter-American Observatory in Chile. The work was funded by NASA and the Smithsonian Astrophysical Observatory.
Soil nutrients shape tropical forests, large-scale study indicates

By Diana Yates

News Bureau Staff Writer

Tropical forests are among the most diverse plant communities on earth, and scientists have labored for decades to identify the ecological and evolutionary processes that created and maintain them. A key question is whether all tree species are equivalent in their use of resources—water, light and nutrients—or whether each species has its own niche.

A large-scale study by researchers at the UI and eight other institutions sheds some light on the issue. It indicates that nutrients in the soil can strongly influence the distribution of trees in tropical forests. The finding, published in the Proceedings of the National Academy of Sciences, challenges the theory that at local scales tree distributions in a forest simply reflect patterns of seed dispersal, said James W. Dalling, a UI professor of plant biology and a principal researcher on the study.

The study evaluated three sites: two lowland forests, in central Panama and eastern Ecuador, and a mountain forest in southern Colombia. The researchers plotted every tree and mapped the distribution of soil nutrients on a total of 100 hectares (247 acres) at the sites. The study included 1,400 tree species and more than 500,000 trees.

The researchers compared distribution maps of all trees more than 1 centimeter in diameter. Each of the sites was very different, but at each the researchers found evidence that soil composition significantly influenced where certain tree species grew: The spatial distributions of 36 to 51 percent of the tree species showed strong associations with soil nutrient distributions.

Prior to the study, the researchers had expected to see some influence of soil nutrients on forest composition, but the results were more pronounced than anticipated. “The fact that up to half of the species are showing an association with one or more nutrients is quite remarkable,” Dalling said. “Differences in nutrient requirements among trees may help explain how so many species can coexist.”

Although plants in temperate forests influence the soils around them (through the uptake of nutrients, decomposition of leaf litter on the forest floor and through root exudates), in tropical forests local neighborhoods contain so many species that the ability of individual species to influence soil properties is likely to be small.

“We interpret these plant-soil associations as directional responses of plants to variation in soil properties,” the researchers wrote.

The team also found that certain soil nutrients that previously had not been considered important to plant growth in tropical forests had measurable effects on species distributions.

At the site in Ecuador, calcium and magnesium had the strongest effects. In the Panamanian forest, boron and potassium were the most influential nutrients assayed. And in the Colombian mountain forest, potassium, phosphorous, iron and nitrogen, in that order, showed the strongest effects on the distribution of trees.

“There are all kinds of minerals out there that plants seem to be responding to that we didn’t think were likely to be important,” Dalling said. Further studies are needed, he said, to evaluate these influences in more detail.

The other principal investigators on the study are Robert John, a post-doctoral researcher in the UI department of plant biology; Kyle E. Harms, Louisiana State University; Joseph B. Yavitt, Cornell University; and Robert F. Stallard of the U.S. Geological Survey.

Researchers on the study also are affiliated with Smithsonian Tropical Research Institute, Panama; the University of Georgia; Pontifical Catholic University of Ecuador; Instituto Alexander von Humboldt, Colombia; and the Field Museum of Natural History, Chicago.
**George Gross**

George Gross is a professor of electrical and computer engineering and in the Institute of Government and Public Affairs. He discusses the higher electric rates that went into effect Jan. 1, 2007. He was interviewed by marketing, business and law editor of the UI News Bureau.

**A Minute with...™** is provided by the UI News Bureau as a venue for Illinois faculty experts to comment on current topics in the news. To view archived interviews, go to www.uiuc.edu/goto/aminutewith.

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**Tomato-broccoli together show to be effective against prostate cancer**

By Phyllis Piclesimer

All Media Communications Specialist

A new UI study shows that tomatoes and broccoli – two vegetables known for their cancer-fighting qualities – are better at shrinking prostate tumors when both are part of the daily diet than when they’re eaten alone.

“When tomatoes and broccoli are eaten together, we see an additive effect. We think it’s because different bioactive compounds in each work on different anti-cancer pathways,” said UI food science and human nutrition professor John Erdman.

In a study published last month in Cancer Research, Erdman and doctoral candidate Kirstie Canene-Adams fed a diet containing 10 percent tomato powder and 10 percent broccoli powder to 400 rats that had been implanted with prostate cancer cells.

The powders were made from whole foods so the researchers could determine if the vegetables could be compared with consuming individual parts of them as a nutritional supplement.

Other diets in the study received either tomato powder, broccoli powder or a supplement that contained the same amount of lycopene, the red pigment in tomatoes thought to be the effective cancer-fighting constituent. A third diet was a control that received a drug prescribed for men with enlarged prostates. Another group of rats was castrated.

After 22 weeks, the researchers weighed the tumors and measured their volume. The researchers then analyzed their components.

“Get to these effects, men should consume daily 1.4 cups of raw broccoli and 2.5 cups of fresh tomatoes, or 1 cup of tomato juice and 1/2 cup of tomato paste,” said Canene-Adams.

Erdman said the study showed that eating whole foods is better than consuming concentrated compounds. “It’s better to eat tomatoes than to take a lycopene supplement,” he said. “And cooked tomatoes may be better than raw. "When tomatoes are cooked, for example, the water is removed and the healthful parts become more concentrated. That doesn’t mean you should stay away from fresh produce. The lesson here, I think, is that we can eat a variety of fruits and vegetables prepared in a variety of ways,” Canene-Adams added.

Another recent Erdman study showed that rats fed the tomato carotenoids lycopene, lutein or a diet containing 10 percent tomato powder for four days had significantly reduced testosterone levels. “Most prostate cancer is hormone-sensitive, and reducing testosterone levels may be another way that eating tomatoes reduces prostate cancer growth,” Erdman said.

Erdman said the tomato/broccoli study was a natural to carry out at Illinois because of the pioneering work his colleague Elizabeth Jeffery has been doing on the cancer-fighting agents found in broccoli and other cruciferous vegetables. Jeffery has discovered antioxidants that are cooked, for example, to reduce certain enzymes in the human body, which then act to degrade carcinogens.

“For 10 years, I’ve been learning how the phytochemicals in tomatoes affect the progression of prostate cancer. Meanwhile (Jeffery) has been investigating the ways in which the healthful effects of broccoli are produced. Team up to see how these vegetables worked together just made sense and certainly contributes to our knowledge about dietary treatments for prostate cancer,” Erdman said.

One outcome of the tomato/broccoli study are Erdman, Canene-Adams, Brian L. Lindshield and Jeffery at the UI and Shihua Wang and Steven K. Clinton of Ohio State University. The study was funded by the American Institute for Cancer Research and the U.S. Department of Agriculture.

The UI study of the effects of tomato carotenoids on serum testosterone was published in the December 2006 issue of Journal of Agricultural and Food Chemistry.

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**Study takes rare look at how materialism develops in the young**

By Mark Reutter

News Bureau Staff Writer

Many people blame advertising for stoking the latest and best in computers, clothes, video games, jewelry and sports equipment. But despite the finger pointing, relatively little is known about how materialist values develop in children and adolescents, a UI researcher says.

“Materialism has long been of interest to consumer researchers, but research has centered on adult consumers, not children or teens,” says Lan Nguyen Chaplin, a professor in the marketing of UI College of Business.

By using a better handle on the issue, Chaplin and co-investigator Deborah Roedder John, a professor of marketing at the University of Minnesota, looked at three age groups: 8- to 9-year-olds (third– and fourth-graders), 12- to 13-year-olds (seventh- and eighth-graders) and 16- to 18-year-olds (11th- and 12th-graders).

The researchers used collages to chart the value placed on materialistic objects such as “money” and “nice sports equipment” compared with non-materialistic sentiments such as “being with friends,” “being good at sports” and “helping others,” in making them happy. The researchers also asked the children open-ended questions about what made them happy.

The researchers found that materialist values increased between 8- to 9-year-olds and 12- to 13-year-olds, but then dropped between the 12-13 age group and 16-18 age group.

In a second study, the researchers determined that self-esteem was a key factor in a child’s level of materialism. Children with lower self-esteem valued possessions significantly more than children with higher self-esteem.

Moreover, the heightened materialist values of early adolescents were directly related to “a severe drop in self-esteem that occurs around 12-13 years of age.” By using a test that primed high self-esteem among the children, the researchers wrote that they “reversed the large drop in self-esteem experienced by early adolescents, thereby reducing the steep rise in materialism among this group.”

As a result, the researchers wondered whether advertising, parents and other restrictions and other best practices to reduce overly materialistic values.

“Our results suggest that strategies aimed at influencing feelings of self-worth and self-esteem among ‘tweens’ (8- to 12-year-olds) and adolescents would be effective,” they concluded.

Their paper, “Growing up in a Material World: Age Differences in Materialism in Children and Adolescents,” was published in the Journal of Consumer Research.
**achievements**

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

### agricultural, consumer and environmental sciences

Two members of the National Soybean Research Laboratory were honored by the Illinois Soybean Association for outstanding contributions to soybean research and market development. Pradeep Khanna, associate director, received the award for excellence in soybean market development. Linda Kull, program coordinator, received the award for excellence in soybean research.

Each year, the association sponsors the Soybean Excellence Awards to recognize those who have been instrumental in advancing the industry.

### liberal arts and sciences

**Chris Fraley,** professor of psychology, won the 2007 Distinguished Scientific Award for Early Career Contributions to Psychology in the area of individual differences from the American Psychological Association. The award is the highest honor given to young scientists by the association.

**Arlene Torres,** director of the Latina/Latino Studies Program and professor of anthropology, was appointed as a member of the advisory board for a project of the American Anthropological Association titled “Understanding Race and Human Variation: A Public Education Program.” The project is funded by the Ford Foundation and the National Science Foundation. It encompasses a traveling museum exhibit (“Race: Are We So Different?”), which opened at the Science Museum of Minnesota last month and will travel around the nation; an interactive Web site; community dialogues and other activities.

Torres and other scholars and members of the board will present the project at the American Association for the Advancement of Science in February.

### fine and applied arts

**Daniel Sullivan,** professor of theater, will serve as acting artistic director for the 2007-2008 season of the Manhattan Theatre Club in New York City. Sullivan will replace Lynne Meadow for the season while she is on sabbatical. Sullivan has directed several of the club’s productions and has been consulting with Meadow on the planning of the 2007-2008 season.

### UI doctoral programs ranked on scholarly productivity

Twenty-six doctoral programs at the UI were ranked in the top of their fields based on the 2005 Faculty Scholarly Productivity Index. The entomology program received the highest honors with a No. 1 ranking.

The 2005 index compiles overall institutional rankings on 166 large research universities, which offer 15 or more doctoral programs, as well as 61 smaller research universities, which offer between one and 14 doctoral programs. Each institution was ranked using the Faculty Scholarly Productivity Index, which provides an overall measure of faculty performance. The primary criteria for the rankings included journal publications, citations of journal articles, and federal grant dollars awarded. The survey was compiled by Academic Analytics, a company owned partially by the State University of New York at Stony Brook.

More information is available online at [http://chronicle.com/weekly/v53/i19/19a00801.htm](http://chronicle.com/weekly/v53/i19/19a00801.htm).

**UI programs and their rank are grouped by college:**

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<th>College of Agricultural, Consumer and Environmental Sciences</th>
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<td>agronomy and crop science (3), animal science (2), food science (2)</td>
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<td>College of Business</td>
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<td>College of Engineering</td>
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<td>aeronautical and aerospace engineering (8), chemical engineering (9), computer engineering (6), industrial engineering (3), materials science</td>
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Award-winning authors to visit UI

The topic of religion and violence “is of enduring relevance both as a matter of domestic (civil) concern and as a matter of international concern,” said Jonathan Ebel, one of the organizers and a professor of religion at UI.

The February symposium, “Saving Faiths/Killing Faith: A Religious History of Violence and Restraint,” will examine the history of violence with “particular attention to the myths of nation that have created and spread violence,” Ebel said. Among the particularists is Bill Mayer from Mount Mary College; Crosswinds Equine Rescue in Tuscola; Rockome Gardens in Arcola; and Early Fire in Franklin.

The new episodes conclude April 26 with the “Prairie Fire 15th Anniversary Special.” Wood and original host Jeff Cunningham will give viewers a behind-the-scenes look at “Prairie Fire” through the years.

For more information and to view video of past stories, visit the Prairie Fire Web site at www.will.uiuc.edu/tv/programs/prairiefire

Fellowship Season under way

UI faculty members are eligible to apply to the NCSA/UIUC Faculty Fellowships Program. Deadline for proposal submissions is March 30.

The NCAPA/NSF Summer Faculty Fellowships are open to UI faculty members not affiliated with the Urbana campus. Deadline is March 16.

A primary requirement for the fellowships is to join experts with innovative staff members at NCSA to create new knowledge. NCSA is currently seeking about a dozen NCAPA/ UIUC Faculty Fellowships and about six NCAPA/NSF Summer Faculty Fellowships.

Contact Radha Nandkumar with proposal ideas at fellowship@ncsa.uiuc.edu or 244-0650. For more information, see the Urbana campus page for Fellows and about six NCSA/NSF Summer Faculty Fellowships.

NCSA Faculty Fellowships and about six NCSA/NSF Summer Faculty Fellowships.

Creative Writing Program

The inaugural lecture series, “Engineering, Technology and Culture,” continues. Four award-winning authors will visit the UI early this year to read from their works, talk about their craft and meet future writers and their professors in the university’s Creative Writing Program.

One of the authors is Dave Eggers, who earned his bachelor’s degree at the UI in journalism in 2002. Eggers has been well known in the literary world for more than a decade. “A Heartbreaking Work of Staggering Genius” (2000), a memoir with fictional elements, quickly became a best-seller. In 2002, Eggers was a recipient of the National Book Foundation’s Five under 35 award.

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BRIEFS

CONTINUED FROM PAGE 12

became a best-seller and was a finalist for a Pulitzer Prize in the general non-fiction category. The memoir was praised for its originality, idiosyncratic self-referencing and several innovative stylistic elements.

Eggers also has written traditional non-fiction, novels, short stories and children’s books, and has served as an editor or contributor to scores of publishing outlets.

He will read from his work at 4:30 p.m. Feb. 9 in the Authors Corner of the Illini Union Bookstore, the site of all the talks, which are free and open to the public.

The authors are taking part in the Creative Writing Program’s Spring 2007 Carr Visiting Authors Series, held each semester to showcase up-and-coming and established American writers.

This semester’s other Carr authors are:

• 5:30 p.m. Feb. 8, poet Camille Dungy, whose most recent work is “What to Eat, What to Drink, What to Leave for Poison” (Red Hen Press, 2006).

• 5:30 p.m. April 10, Dunya Mikhail, a poet famous in her native Iraq and known for her subversive, innovative and satirical poetry.

• Peter Orner, April 19, 4:30 p.m., a novelist and short-story writer who teaches in the graduate writing program at San Francisco State University. Orner is the author of the novel “The Second Coming of Mavala Shikongo.”

Education forum

Poverty, children and schools discussed

Poverty and its influence on children, schools and the Champaign-Urbana community – and finding new strategies to address it – will be the topic of a two-part forum Feb. 10 at the UI.

The Saturday event will begin at 8:30 a.m. with a keynote talk, panel discussion and community forum at the Lewis Faculty Center. The featured speaker will be Nancy K. Cauthen, deputy director of the National Center for Children in Poverty at Columbia University.

Joining Cauthen for the panel discussion will be Manee Date, a policy analyst for Voices for Illinois Children; Jane Quinlan, from the Champaign-Ford regional office of education; and representatives from the Champaign and Urbana school districts.

From 10:30 a.m. to 3:30 p.m., there will be a seminar for educators, policymakers, and human-services, health-care and child-welfare professionals, as well as interested community members. The focus of the seminar at Leviss will be a community workshop program called “Bridges Out of Poverty,” developed in part from the ideas of Ruby Payne, the founder and president of ah! Process Inc.

The goal in both sessions will be to not only discuss poverty-related concerns, but also to seek new ways to work together and to more effectively address the concerns, said Robert Henderson, a professor emeritus of special education at Illinois and one of the organizers.

The morning session is free and open to the public, with a continental breakfast available before the event, starting at 8. The seminar that follows requires advance registration by Feb. 5 and a $25 fee to cover lunch and materials used in the session.

The forum is the latest in a series initiated in the fall of 2005 to promote discussion on education and other related topics, with a focus on the local schools and community. The series is sponsored by the university’s College of Education and organized by the university’s chapter of Phi Delta Kappa, a professional association for educators.

Co-sponsors for the Feb. 10 forum include the Champaign and Urbana school districts, the Illinois North Central Association Commission on Accreditation and School Improvement, and Parkland College.

To register for the seminar, call the Illinois North Central Association at 333-1120 or e-mail smorriso@uillinois.edu. Teachers and school personnel can earn CEU and CPDU credits by attending.


Employee benefits

Information kiosk now available

A human resources and benefits information kiosk has been set up in the fourth floor reception area of the Illini Union Bookstore Building. The self-service kiosk provides employees with online access to university benefits and human resources information. The home page directs users to NEXSE, benefits forms and human resources quick links. Users also may view a PowerPoint presentation that provides an introduction to benefits and insurance information. This kiosk is available weekdays from 8:30 a.m. to 5 p.m.

The hours of the Benefits Service Center, located in Suite 480 of the Illini Union Bookstore Building, have changed. Benefits staff members are now available weekdays from 8:30 a.m. to 5 p.m. Call 333-3111 to set up an appointment.

Biomedical research highlighted

Two NIH speakers featured

More than 20 years ago, researchers discovered that nitrogen oxides mediate both positive and negative physiological mechanisms in cancer. Despite an explosion of work in this field, researchers are just now starting to understand the biology underlying these pro- and anti-carcinogenic effects.

On Feb. 19, David Wink, a senior investigator in the Radiation Biology Branch of the National Cancer Institute, Bethesda, Md., will present an overview of the latest findings on nitric oxide and cancer as part of the spring 2007 weekly seminar series on translational biomedical research.

On March 19, Chana Khana, a senior scientist who heads the tumor metastases section of the National Institutes of Health Pediatric Oncology Branch, will speak on a comparative approach to cancer biology and therapy.

Other lectures in this series will address other aspects of the physiologic role of nitric oxide, cancer therapy and environmental contexts for infectious disease.

Hosted by the UI College of Veterinary Medicine, all talks begin at noon on Mondays in the Small Animal Clinic auditorium. Metered parking is available in Lot F-27 located at 2001 S. Lincoln Ave., Urbana.

Talks are free and open to the public. Veterinarians may earn one hour of continuing education credit by attending.

The Translational Biomedical Research Seminar Series at the highlights fundamental research discoveries with potential to directly benefit human and animal health and society.

For the complete schedule of talks in the series, go to www.cvm.uiuc.edu/triboseries.html.
Inside Illinois
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Much of this information is drawn from the online Campus Calendars on the UI web site at www.uiuc.edu/uicalendar. Other information was sent 15 days before the desired publication date to insideillini@uiuc.edu. More information is available from Marty Year at 333-1085.

**Feb. 1 to 18**

**Xing (Ares)** Tony Oluoch, UI. 6 p.m. 1401 Loomis Lab Physical Chemistry. "Democracy and Captivity: Women and Democracy in a Multiracial America." Christina Gro, women’s studies. 8 p.m. 1005 Beckman Building. "The Multicultural Arts at the University: 100 Years of Diversity and Innovation."

**Monday**

**February 5, 2007**

**Lectures**

- **3 Saturday**
  - Saturday Physics: "The Mysterious Dark Matter in the Universe." Nathan Hears, University of Chicago. Noon-12:45 p.m. 1401 Loomis Lab. "Observing the Higgs: The last frontier of the Standard Model?" Robin Douglas, University of Illinois at Urbana-Champaign. 4 p.m. 131 Life Sciences Laboratory. "Exercising the Obese Brain: Timing is Everything." Barry E. Baudhuin, University of California, East Orange, NJ. 4 p.m. 103 Meullum Hall. "Neural and Life Sciences Laboratory. Microbiology."

- **3 Tuesday**

- **4 Wednesday**

- **4 Thursday**

- **5 Friday**
Dave Eggers, 5 p.m. Lobby, Krannert Center.
Fred, 7:30 p.m. Assembly Hall.
Ian, UI vs. Illinois Fighting Illini, 9:30 a.m.-12:30 p.m. Third Floor, Levis Faculty Center.
Traffic Jam, 7:30 p.m. Foelinger Great Hall, Krannert Center.
Golden Years’ of a Musicologist, 16 p.m. Colwell Playhouse.
Artist Reception and Talks, 6 p.m. Asian American Cultural Center, 1218 W. Nevada St., Urbana. In conjunction with “Journeys” by Unemita Sada-rantang.
Asian American Cultural Center.
Thursdays at Twelve Twenty Five o’clock, 12:20 p.m. Beckman Institute atrium.
Jing-I Jang, harp, 7:30 p.m. University of Michigan. 7 p.m. 406 Illini Union.
International Fest, 10-11 a.m., 3rd-5th grade. Education Center, Allerton Park.

CALENDAR, CONTINUED FROM PAGE 14
and Daniel Neumenschwandtner, conductors. 7:30 p.m. Foelinger Great Hall, Krannert Center. New music and old favorites. School of Music.
Chamber Singers, Fred Stoltzfus, conductor. 7:30 p.m. Recital Hall, Smith Hall.
13 Tuesday
Vincent Gill. “These Days Tour.” 7:30 p.m. Assembly Hall Star Theatre.
UI New Music Ensemble, Eduardo Diamirr, conductor. 7:30 p.m. Foelinger Great Hall, Krannert Center. Music by UI student and faculty composers. School of Music.
14 Wednesday
Faculty Recital, Dana Hall, jazz drummers. 7:30 p.m. Foelinger Great Hall, Krannert Center. School of Music.
Doctor of Musical Arts Recital, Tracy Parish, trumpet. 7:30 p.m. Recital Hall, Smith Hall.
15 Thursday
Thursdays at Twelve Twenty Five o’clock, 12:20 p.m. Beckman Institute atrium.
Jing-I Jang, harp. 7:30 p.m. University of Michigan. 7 p.m. 406 Illini Union.
International Fest, 10-11 a.m., 3rd-5th grade. Education Center, Allerton Park.
CALENDER, CONTINUED FROM PAGE 16
Black Sacred Music Symposium VIII 6-10:30 p.m. Music Building and Krannert Center More info: 244-3337, owdavis@uiuc.edu. School of Music and African-American Cultural Program.
16 Friday
Black Sacred Music Symposium VIII 6-10:30 p.m. Music Building and Krannert Center More info: 244-3337, owdavis@uiuc.edu. School of Music and African-American Cultural Program.
17 Saturday
Black Sacred Music Symposium VIII 11 a.m.-4:30 p.m. Music Building and Krannert Center More info: 244-3337, owdavis@uiuc.edu. School of Music and African-American Cultural Program.
"Spanish Time at Public Libraries," 1 p.m. Douglass Meeting Room at the Douglass Branch Library, 504 E. Grove St., Champaign. Center for Latin American and Caribbean Studies.
Winter Tales Concert, 7 p.m. Knight Auditorium, Spurlock Museum. American Indian Studies.
Allerton House Retreat Center Open House. 11 a.m.-4:30 p.m. Tuesday-Saturday, until 9 p.m. Thursday. Free admission; $3 donation suggested. Tours: 333-7579. www.art.uiuc.edu/@art.
ongoing
Allgodl Chime-Tower Tours 10-11 a.m. Monday-Friday. Enter through 323 Altgeld Hall. See altgeld.nasa.illinois.edu for complete schedule. Tours: 333-7579.
"Where Animals Dance" Through March 4. Five galleries featuring the cultures of the world. Spurlock Museum, 600 S. Gregory St., Urbana. Noon-5 p.m. Tuesday, 9 a.m.-5 p.m. Wednesday-Friday, 10 a.m.-4 p.m. Saturday. Noon-4 p.m. Sunday.
Journey," by Umeeta Sada-rangam. Through March 16. Asian American Cultural Center, 1210 W. Nevada St., Urbana. 8 a.m.-5 p.m. Monday-Thursday, 8 a.m.-5 p.m. Friday.
"Envisioning: Architecture: Drawings by Martin Wolf" "John Fosher: In Reserve" Through Feb. 24. 1 space; 11 a.m.-5 p.m. Tues-day-Saturday.
Start gallery. Online exhibit of the UI School of Art and Design. www.art.uiuc.edu/art.
Uncontinued
Bookman Institute Café Open to the public. 8 a.m.-3 p.m. Monday-Friday. Lunch served 11 a.m.-2 p.m. Menu www.bookman.uiuc.edu/café. Bevior Café 8:30-11 a.m. coffee, juice and baked goods, 11:30 a.m. to 1 p.m. lunch.
Campus Recreation IMPÉ. 201 E. Peabody Drive, Champaign. CRCE. 1102 W. Gregory Drive, Urbana. See www.campusrec.uiuc.edu for complete schedule. The Monday gym and pool open to faculty/staff at no charge during scheduled hours with valid ID card.
English as a Second Language Course. 7:30-8:30 p.m. Mon., Tues., Thurs., Fri. 1403 S. Sixth St., Urbana. Course 101B. $180 fee. Register at the Visitors Center, 9 a.m.-5 p.m. Monday-Friday.
Keaned Pavilion Tours By appointment, call 333-7579. Hours 9 a.m.-5 p.m. Tuesday-Saturday, until 5 p.m. Thursday-Sunday. The Food and Dome Gourmet Education Center: 10 a.m. noon and 1-5 p.m. Tuesday-Friday. Final 7 p.m. Thursday, 10 a.m.-2 p.m. Saturday. Palette Café. 8 a.m.-4 p.m. Monday-Saturday. Office hours: 8:30 a.m.-5 p.m. Monday-Friday.
Krantzer Center for the Performing Arts Interlude: Open one hour be-fore until after performances. Krantenr Uncorked: Wine tast-ings 5 p.m. most Thursdays. Interimme Café: 7:30 a.m.-3:30 p.m. on non-performance weekdays, 7:30 a.m. through weekday performances; week-ends 90 minutes before until after performances. Promenade gift shop: 10 a.m.-6 p.m. Monday-Saturday, one hour before until 30 minutes after performances.
Ticket Office: 10 a.m.-6 p.m. daily, 10 a.m. through first intermission on performance days. Tours: 1 p.m. daily, meet in main lobby.
Law Café 8 a.m.-4:30 p.m. Monday-Thurs.-day. 2-5 p.m. Friday. Breakfast, lunch entrees, salads, dessert. Coffee, More info: 244-6017.
Library Tours Self-guided of main and un-dergraduate libraries: go to In-formation Desk (second floor, main library) or Media Center (undergraduate library).
Meat Salesroom 102 Meat Sciences Lab. 1-5:30 p.m. Tuesday and Thursday, 8 a.m.-1 p.m. Friday. Price list and specials: 333-3504.
Robert Allerton Park Open 8 a.m. to dark daily. "Allerton Legacy" exhibit at Visitors Center, 9 a.m.-5 p.m. daily; 244-1035. Garden tours: 333-2127.
Wellness Zone Checkup 5-7 p.m. Lobby, CBCE. Held on first and third Wednesdays of each month fall semester. Campus Recreation.
organizations
Association of Academic Professional Happy hour, third Friday monthly, 5 p.m. Bread Com-pany, 706 S. Goodwin Ave. www.ieanea.org/local/aap/.
Book Collectors’ Club – The No. 44 Society 4 p.m. First Wednesday of each month. Rare Book and Manuscript Library, 346 Main Library More info: 333-3772 or www.library.uiuc.edu/infrho.
Council of Academic Professionals Meeting 1-3 p.m. First Thursday monthly. More info: www.cap.uiuc.edu, majesty@uiuc.edu.
Classified Employees Association 11-45 a.m.-1 p.m. first Thurs-days monthly info: 244-2466 or nblackburn@uiuc.edu.
IUUC Falsu Data Practice group 10 a.m.-10 p.m. each Sunday. 405 Illini Union 244-2571.
French Department: Pause Café 5-6 p.m. Thursdays, Espresso Royale, 1117 W. Oregon St, Urbana.
Illini Folk Dance Society 8-10 p.m. Tuesday and Satur-day, Illini Union. Beginners welcome: 398-6686.
Italian Table Italian conversation Mondays at noon, Intermezzo Café at noon, KCPA.
Lifetime Fitness Program 6-8:30 p.m. Monday-Friday, Kinesiology, 244-3893.
PC User Group Schedule Mark Zawoz, 244-1289; David Harley, 244-1843.
Scandinavian Coffee Hour 4-6 p.m. Wednesday. The Bread Company, 706 S. Good-win Ave., Urbana.
Secretariat 11:45 a.m.-1 p.m. third Wednesday Illini Union. 333-1374, maldavis@uiuc.edu or www.uiuc.edu/secretariat.
The Deutsche Konversationsgruppe 1-3 p.m. Wednesday The Bread Company, 706 S. Good-win Ave., Urbana.
VOCA Poetry and fiction reading, 7-45 p.m. Third Thursday of each month. The Bread Company, 706 S. Goodwin Ave., Urbana.
Women’s Club Open to male and female fac-ulty and staff members and spouses. 398-5967, or www.UECWomensClub.org.