

## INSIDE...

### Teaching and learning

In this week's Q&A, Roberta "Robin" Sullivan talks about the Teaching and Learning Center and how it helps faculty learn new teaching skills.



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### Award winner

Warde Manuel, director of athletics, has been recognized as one of the best and brightest executives in the sports business industry under the age of 40.



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### Is UB open?

Faculty, staff and students looking for information about the university's office hours and class schedules during inclement weather can call 645-NEWS or sign up to receive a text message sent to their cell phone and/or an email account.

The telephone line will be available 24 hours a day. The recorded message will be updated and a text messaging alert will be issued as soon as university officials decide to alter office hours and class schedules due to weather conditions or other situations.

To receive text-messaging alerts, go to <http://emergency.buffalo.edu/>.

Closing information also will be available on WBFO-FM 88.7, at [www.buffalo.edu](http://www.buffalo.edu) and at [MyUB.buffalo.edu](http://MyUB.buffalo.edu).

## WWW.BUFFALO.EDU/REPORTER

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### KEY TO REPORTER ICONS

- M** more text at Web site
- L** link on Web site
- P** more photos on Web
- A** additional link on Web

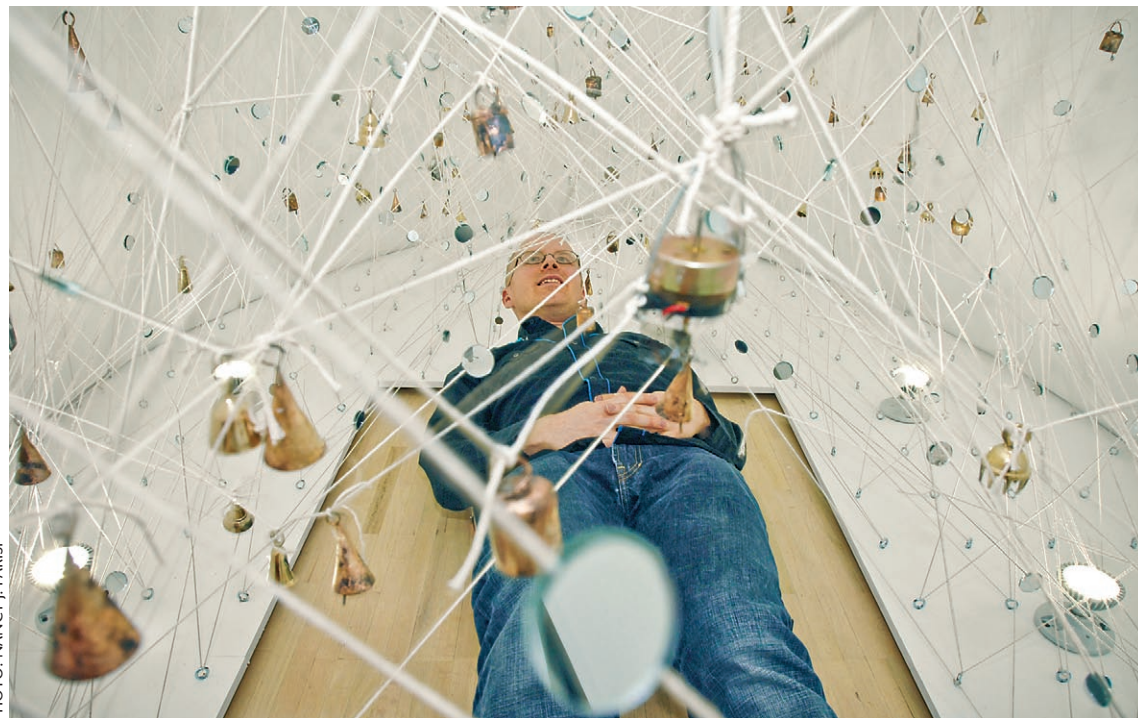


PHOTO: NANCY J. PARISI

## Web of Activity

Artist Douglas Repetto lies within his installation, "everything, all at once," in the UB Art Gallery in the Center for the Arts. After rolling into a small room on a mechanic's dolly, the viewer is engulfed in light and the sound of hundreds of bells. Repetto's work is on view through May 17.

## Scoring an 'A' on auto break-ins

### UB Police build on success of program on South Campus, expand to North

By **SUE WUETCHER**  
Reporter Editor

UNIVERSITY Police is continuing the momentum of its hugely successful campaign to increase South Campus drivers' awareness of their vulnerability to automobile break-ins by expanding the program to the North Campus.

Starting on March 17, when classes resume after spring break, university police officers will be out in force on the North Campus, while continuing their efforts on the South Campus. The objective of the University Police Vehicle Burglary Initiative 2008, developed by Wayne Colton, community liaison officer, is to reduce the instances of auto burglary at UB through the use of signs, brochures, public service announcements, stepped up patrols and a vehicle burglary report card.

Vehicle break-ins are on the rise

nationwide, largely due to the proliferation of electronic devices such as iPods and GPS units, Colton says, noting that UB has not been spared this trend, with 27 vehicle burglaries recorded on the South Campus in 2007—a sharp increase over the past few years.

As part of the vehicle break-in initiative, University Police distributed almost 4,000 vehicle-burglary report cards to staff and student vehicles parked in South Campus lots in January. Vehicles were graded based on whether conditions that could lead to a break-in were observed, such as property left in plain view, keys left in the vehicle, a window left open or other unsafe conditions. Those drivers who received a failing grade received a follow-up email message.

University Police also erected "safety alert" signs in several key locations on the South Campus that urge drivers not to leave valuables

in plain sight in their cars and to be vigilant for suspicious activity in and around campus parking lots. The signs also provide the telephone number for University Police—645-2222—and direct individuals to use any Blue Light Phone to contact University Police.

Colton notes that no vehicle break-ins have been reported at UB so far this year, while other jurisdictions are seeing a spike.

"We are declaring Phase I a success," he says. "We are keeping up the momentum by doing a reinforcing blitz on the South Campus during the week of March 17, then moving to the North Campus."

During this second phase of the initiative, Colton says University Police plan to distribute as many as 8,000 vehicle burglary report cards to motorists on both campuses, while at the same time increasing police visibility. Safety alert signs also

will be erected at key locations on the North Campus, and new ways "to get the word out" will be explored, including using the scrolling marquee sign outside the Student Union on the North Campus, he says.

"We have no illusion about eliminating crime altogether," Colton says. "It [vehicle break-ins] will inevitably happen here again. However, every GPS unit that is not left on display in a vehicle is one crime that will not happen."

"Auto-burglary prevention, like all crime prevention, involves limiting the criminal's ability and/or opportunity to commit the crime," he says. "With very little time and effort, citizens can make a huge difference in their vulnerability."

"Vehicle burglary is a quality-of-life crime that has the potential to affect us all," he notes. "The key to crime prevention is education and community partnership."

## Aspirin not protective for everyone

By **LOIS BAKER**  
Contributing Editor

UP to 20 percent of patients taking aspirin to lower the risk of suffering a second cerebrovascular event do not have an antiplatelet response from aspirin, the effect thought to produce the protective effect, UB researchers have shown.

"Millions of people use low-dose aspirin either for prevention of a second stroke, second heart attack or second episode of peripheral artery disease," said Francis M. Gengo, lead researcher on the study.

Gengo is professor of neurology in the School of Medicine and Biomedical Sciences and professor of pharmacy practice in the School of Pharmacy and Pharmaceutical Sciences.

"In those three indications, it's

crystal clear that aspirin reduces the risk of a second heart attack or stroke in most patients. But we have known for years that in some stroke and heart attack patients, aspirin has no preventive effect."

With no definitive data on the frequency of this condition, known as aspirin resistance, physicians were left with a best guess of between 5 and 50 percent, said Gengo.

UB researchers now have confirmed the 20-percent figure through a strictly controlled study conducted over 29 months in 653 consecutive stroke patients seen at Dent Neurologic Institute offices in Amherst and Orchard Park.

Results of the study were published recently on the *Journal of Clinical Pharmacology's* Web site as a "document of interest" and will appear in a future issue of the journal.

Aspirin lowers the risk of a car-

diovascular event by preventing blood platelets from aggregating in the arteries and obstructing blood flow. If blood drawn from a patient taking aspirin shows that platelets are still aggregating, that patient is diagnosed as being aspirin resistant. If a stroke patient has a second stroke while on aspirin, the patient has experienced what is known as clinical aspirin failure.

"We've known about clinical aspirin failure for many years," said Gengo. "We're just beginning to understand clinical aspirin resistance. The major question recently has been, 'If you are aspirin resistant, does that mean you are more likely to be a clinical aspirin failure? Is one related to the other?' The answer is, likely, 'yes.'"

"That's one of the critical pieces of information provided by this paper," he said. "We looked at how fre-

quently aspirin resistance occurred in all patients and its prevalence in patients who suffered clinical aspirin failure. What we found was, across the board, about 80 percent of the patients in our study were aspirin sensitive—their platelets did not aggregate in arteries—and 20 percent were aspirin resistant.

"However, when we asked the same question of the data from patients who had a second stroke while on aspirin [clinical aspirin failures], 80 percent were aspirin resistant," said Gengo.

A large meta-analysis published nearly simultaneously in the online version of the *British Medical Journal* (BMJ) reached a similar finding. However, Gengo noted that while the BMJ paper is a very important review, the UB-Dent study provides more definitive

Continued on Page 4



## NEWSMAKERS

Members of the UB faculty and staff are quoted in print, broadcast and online publications around the world. Here is a sampling of recent media coverage.

*"I think it matters quite a lot. There are all kinds of problems that occur when kids have TVs in their bedroom."*

**Leonard Epstein**, professor of pediatrics and social and preventive medicine, in an article in *The New York Times* on research he conducted that showed that limiting the time that young children spend with television and computers reduces their risk of becoming obese. The research also was covered by news services that include **Bloomberg News, Reuters** and **HealthDay**, and appeared in many major metropolitan newspapers. His research also received considerable international coverage. In addition, news crews from CBS News and National Public Radio were on campus Tuesday to interview Epstein about his work.

*"It's not the same thing, watching 'Blade Runner' or 'Brokeback Mountain' on a computer screen, much less an iPod. It diminishes the experience of the art by making it smaller and smaller."*

**Elayne Rapping**, professor of American studies, in an article in the *St. Louis Post Dispatch* on how movie-viewing habits have changed, at least in part, because of technology.

*"Our goal was to integrate spirituality into the existing required courses....Research demonstrates that our health and well-being are influenced by our physical body, our thoughts and feelings, our social situation and relationships, and by our spiritual beliefs and practices. If a patient believes in the power of prayer and practices this daily, in addition to recommending therapies such as nicotine-replacement patch and a smoking-cessation group, why not encourage him or her to pray for strength to quit smoking?"*

**David Holmes**, clinical assistant professor of medicine, in an article in *American Medical News* on the growing number of medical schools, including UB, that offer courses about spirituality in medicine.



**Roberta "Robin" Sullivan** is an instructional designer and a teaching and learning consultant with the Teaching and Learning Center.

#### What is the mission of the Teaching and Learning Center?

The mission of the Teaching and Learning Center is to provide faculty with opportunities to learn new teaching skills. We provide workshops, speakers, programs, discussion groups and consultations. Topics include the teaching-and-learning process and the effective use of the latest information technology and new media. These innovations can be used to enrich course content and presentations.

#### What services do you provide?

We are available to those with questions about resources and support for teaching. We consult with faculty about teaching effectiveness and technology-enhanced teaching methods. We also offer group and one-on-one instruction. All of our services are available to UB faculty, staff and graduate assistants. Graduate students are eligible to register for many of our workshops and seminars. Undergraduate students are welcome to register for the TLC workshops co-sponsored by the UB Libraries. The TLC Instruction Program includes a variety of workshops and seminars. The Teaching Effectiveness series helps faculty enhance their teaching skills and includes upcoming topics such as teaching large classes, student assessment through group work and oral examinations, and moving lectures out of the classroom. The Genteels' Excellence in Teaching event, scheduled for March 31, includes a series

of workshops about the theory and philosophy behind cooperative and active learning in higher education led by Barbara J. Millis, director of the Excellence in Teaching Program at the University of Nevada-Reno. To be kept informed about our events, subscribe to the TLC listserv by going to <http://ubtlc.buffalo.edu/events/listserv> or send an email to [ubtlc@buffalo.edu](mailto:ubtlc@buffalo.edu). We also have an extensive collection of books and media about pedagogy and instructional technology. The TLC suite houses technology tools, including workstations equipped with the latest software, video-editing workstations, scanners and printers. Projectors, laptops, cameras and camcorders are available for loan to faculty and staff for the preparation of classroom content or academic presentations. The TLC Web site, located at <http://ubtlc.buffalo.edu>, recently was updated. You will find links to teaching tips and strategies, as well as previously recorded workshops and other events.

#### Are faculty coming to the TLC with a greater knowledge of technology than in the past?

Yes, faculty members are increasingly comfortable with the use of educational technology. Instead of being driven by the available technology, faculty members now use it as a tool to meet their objectives.

#### What is the most frequent request you get from faculty?

Assistance using UBlearns is the most often requested service. UBlearns is

## Questions & Answers

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a valuable resource used by faculty to communicate and provide course content. Faculty members also are becoming more sophisticated in their use of UBlearns.

#### What about the students? Has their high level of sophistication and immersion in technology affected the way your office responds to faculty? Have you had to ramp up your efforts to meet the need?

Student requests often provide the impetus for faculty to adopt various forms of instructional technology, including expanded use of UBlearns. We work to meet the needs expressed by faculty.

#### Do you find that some senior faculty still resist using technology in the classroom?

Yes, this is sometimes the case. However, since faculty use the services of the TLC on a voluntary basis, we often do not have the opportunity to work with those who are resistant to integrating instructional technologies.

#### Where can faculty find a schedule of workshops?

The TLC workshop and event schedule can be found at <http://ubtlc.buffalo.edu/workshops>. The TLC listserv is a great way to be kept informed about upcoming workshops and events. To subscribe, go to <http://ubtlc.buffalo.edu/events/listserv>.

#### What question do you wish I had asked, and how would you have answered it?

I wish you would have asked about the future of the Teaching and Learning Center. The TLC was formed at the beginning of the current school year as a result of a merger between the Educational Technology Center (ETC) and the Center for Teaching and Learning Resources (CTLR). These centers provided many years of outstanding service to the UB community. The ETC provided support for instructional technology initiatives and the CTLR provided support for faculty regarding pedagogy. The missions of these two centers now are combined in the mission of the TLC. Faculty members are given teaching responsibilities because they are experts in their fields, but they sometimes need assistance with teaching skills. Technology is just one of many tools that help faculty provide meaningful learning for students. I have high expectations for the future of the TLC. There are job openings listed on the UBJobs Web site for a director and an administrative assistant. We hope to locate outstanding people to fill these positions who will be able to help move the TLC toward becoming an important resource for learning and instruction at UB. The TLC has accomplished a lot in the short time it has been in existence and there are many additional opportunities for the TLC to benefit the UB instructional community.

## Recognizing achievement, service to UB

### Wilson Greatbatch, 18 others to receive awards from UB Alumni Association

By **BARBARA A. BYERS**  
Reporter Contributor

**W**ILSON Greatbatch, M.S. '57, an engineer who is responsible for the conceptualization, refinement and production of the implantable cardiac pacemaker and battery, has been selected to receive the Samuel P. Capen Award, the highest honor awarded by the UB Alumni Association.

Greatbatch will receive achievement awards at a gala to be held April 5 in the Adam's Mark Hotel, 120 Church St.

The awards are presented each spring to alumni and friends of UB for bringing distinction to themselves and the university through outstanding professional and personal achievement, loyal service to UB and exemplary service to their communities.

Heralded as a father of bioengineering, Greatbatch is a pioneer in the multibillion dollar medical device business. In 1984, the pacemaker was chosen as one of the 10 greatest engineering contributions to society during the past 50 years by the National Society of Professional Engineers. Greatbatch is the inventor or co-inventor on more

than 300 patents, a member of the National Inventors Hall of Fame, the founder of numerous companies and current president of GRI LLC.

Eighteen other individuals also will receive awards.

Chrysostomos L. "Max" Nikias, Ph.D. '82, M.S. '80, provost of the University of Southern California's Viterbi School of Engineering, will receive the Clifford C. Furnas Award, which is presented to engineering, natural sciences or mathematics alumni who have distinguished themselves in a field of science.

Cynthia Hoover, Ph.D. '95, director of electronics research and development at Praxair Inc., will receive the George W. Thorn Award, which is given to alumni under 40 in recognition of outstanding national or international contributions to their career field or academic area.

Ying-Kit Leung, a former UB medical school faculty member who was instrumental in creating a UB Alumni Chapter in Hong Kong, will receive the Walter P. Cooke Award recognizing non-alumni who have made notable and meritorious contributions to UB.

Four Distinguished Alumni

Awards will be presented in recognition of exceptional career accomplishments, community or university service, or research and scholarly activity. Recipients are John M. Canty Jr., M.D. '79, Albert and Elizabeth Rekaté Chair in Cardiovascular Disease and director of UB's Center for Research in Cardiovascular Medicine; Patricia T. Castiglia, Ph.D. '76, M.S. '65, B.S. '62, a former UB nursing faculty member who co-founded the first professional nursing corporation in New York state; Paul A. Mayewski, B.A. '68, a glaciologist, explorer and an internationally recognized expert in polar glacier research and climate change; and Blair A. Rudes, Ph.D. '76, M.A. '74, B.A. '73, a linguist who specializes in the language of the Tuscarora Nation and compiled a comprehensive dictionary that has become an authoritative reference on the language's vocabulary.

The Dr. Richard T. Sarkin Award for Excellence in Teaching will be presented to Michael F. Buckley, B.S. '78, B.A. '76, a lecturer in the Department of Computer Science and Engineering, UB School of Engineering and Applied Sciences.

Irene S. Snow, M.D. '80, medical director of Buffalo Medical Group

PC, clinical assistant professor in the UB medical school, and member of the new board that will govern the combined Erie County Medical Center and Kaleida Health systems, will receive the Community Leadership Medal.

The Dr. Philip B. Wels Award will be given posthumously to Northrup R. Knox, a banker, community leader and staunch supporter of the university for decades whose achievements have greatly enhanced the quality of life of the entire UB community.

Volunteer Service Medals recognizing outstanding volunteer contributions to the university will be presented to Richard L. Friend, M.B.A. '70, B.S. '68; Alfred T. Caffero; Jay R. Friedman, Ed.M. '00, B.A. '86; and Kaitsen Woo, M.Arch. '92

Four students will be awarded J. Scott Fleming Scholarships. They are Yasmin Adamy, B.A. '06, a law student specializing in family law and child welfare; Przemyslaw Garbaczewski, a senior majoring in business administration in finance, international business and economics; Peter Grollitsch, a senior majoring in international business; and Rajavi Parikh, a senior majoring in international health.

## REPORTER

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# Research expenditures on the rise

*Faculty Senate told increase is occurring despite federal budget cutbacks*

By **KEVIN FRYLING**  
Reporter Staff Writer

**I**NVESTMENT in science and engineering is on the rise at UB, despite serious cuts in the federal research budget, Jorge José, vice president of research, told the Faculty Senate on Tuesday.

Citing UB's report to the National Science Foundation's annual Survey of Research and Development Expenditures at Universities and Colleges, José said that overall research expenditures have increased at UB, rising from \$258.9 million during the 2004 fiscal year to \$314.8 million in the 2007 fiscal year.

"Where we would like to be in the future is in the top half of the public AAU universities in terms of research expenditures," he said, noting that one of UB's top goals is to achieve national and international recognition for innovative research in its strategic-strength areas as defined by the UB 2020 comprehensive plan.

The greatest supporter of research at UB is the federal government, which provides nearly 50 percent of all research dollars, he added. Institutional investment is the second greatest source of funds—30 percent—with industrial partners and state and local funds contributing 6.8 and 4.5

percent, respectively.

In terms of federal funding, José said that more than 64 percent of UB's total research investments come from the Department of Health and Human Services. The next greatest source of federal research grants is the Department of Defense (DOD) at 15.3 percent, followed by the National Science Foundation (NSF) at 8.8 percent.

UB's greatest source of research funding—the National Institutes of Health—experienced a peak in support to fund research during the 2005 federal budget, he added. Other agencies, such as the NSF and DOD, also have seen declines as part of a general decrease in federal research funds—from a little more than \$60 billion in 2004 to about \$56 billion in 2007.

"The investment that the U.S. is making in research has gone down significantly," José said, "which means it's going to be harder to get funded, harder to increase research expenditures in the future."

In the nonscience and engineering fields, José said UB's research expenditures have oscillated between approximately \$10 million in 2004 and \$9 million in 2007.

Programs such as the UB 2020 Interdisciplinary Research Development Fund and UB 2020

Scholars Fund were created to help scientists weather periods during which outside funds are unavailable, added José, who encouraged faculty to concentrate on interdisciplinary projects and emerging areas of investigation, such as regenerative medicine, in order to survive an increasingly competitive research environment.

"We are trying to emphasize interdisciplinary research because many of the significant problems we're trying to solve in the 21st century require the expertise of people in different fields in order to make progress," he said. "Problems like aging, chronic diseases, climate change and the energy problem are not going to be resolved by being a chemist or a physicist or a medical doctor. We have to have contributions from people from different areas of research and it's being recognized by the funding agencies."

In other business, Kathie Frier, director of wellness and work-life balance, presented a progress report on activities related to the university's new focus on employee wellness.

In addition to programs currently in progress, such as employee discounts to area gyms, an on-campus Weight Watchers program and "Move It To Lose It"—a faculty and staff weight loss and fitness chal-

lenge—Frier said the Wellness and Work-Life Balance unit is working to create a "culture of wellness" through programs that encourage walking, "stress busting," smoking cessation and disease management.

"What we're really aiming to do is not go toward the people who are already the first ones to sign up for the corporate challenge or people who are already fit, but the people who really want to do this [but haven't]," she said.

Also at Tuesday's meeting, a recycled paper purchasing policy that was unanimously approved by the senate's executive committee, failed to receive a similar endorsement from the full senate. The proposal calls for all general purpose 8.5" x 11" white copier and printer paper purchased by the university to be 100 percent, postconsumer content processed chlorine-free recycled paper.

James E. Campbell, chair of political science, raised concerns about instituting an "unenforceable policy," and also questioned whether all campus printers can handle this paper without technical problems, such as paper jams.

The proposal will return to the FSEC for revision, said Robert Hoening, chair of the Faculty Senate and associate professor of linguistics.

## Student excels in online fund raising

By **CHARLES ANZALONE**  
Contributing Editor

**A** grassroots cyberspace campaign by a graduate student in the School of Social Work to raise money for research on a cancer from which she is recovering has earned her top-10 honors in a national online charity fund-raising competition and raised more than \$30,000 for a charity dedicated to raising awareness and research funds related to the cancer.

Mary Sorens gathered 622 donors—most willing to donate about \$10—to support the Liddy Shriver Sarcoma Initiative, a nonprofit group dedicated to increasing awareness and research funds for sarcoma, a cancer affecting connective tissue, such as bones, muscles and joints.

Using contacts she cultivated in an online sarcoma support group she began in 2005, Sorens raised more than \$17,000 for the charity. She also earned \$13,000 in prize money from Causes Giving Challenge on Facebook, the organization sponsoring the charity competition, including three \$1,000 awards for attracting the most donors in a 24-hour period. She is donating the money to the Liddy Shriver Sarcoma Initiative to support competitive research grants.

"It was exhilarating, frustrating, encouraging and exhausting all at once," says Sorens, who has been an active volunteer counseling other sarcoma patients online.

"I feel like it has opened doors for my personal direction in life. It made me realize I actually enjoy advocacy," she says. "Before, I knew I enjoyed patient support. But

this Causes Giving Challenge was exciting. It stretched me and made me think. It made me realize fund raising can actually be fun."

The 622 contributions Sorens and her friends assembled earned her eighth-place honors among 747 charities competing in the national contest. Launched Dec. 13 and ending Jan. 31, the contest tried to take advantage of emerging social patterns using the latest technology, showing those participating how they could attract more donors and increase awareness of their causes using cutting-edge social-networking sites.

Sorens entered the contest late, on Jan. 1, but won three of the \$1,000 daily prizes for finding the most pledges of any group in the contest in a 24-hour period.

"First, we went to friends and family," she says. "But we exhausted that pretty quickly. Then, I went to my online support

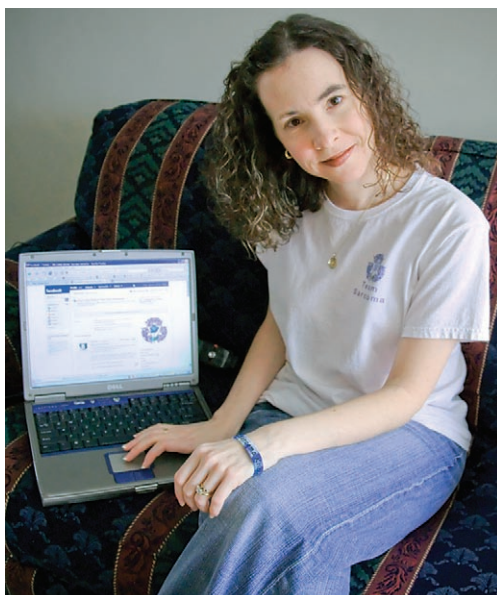
group, Adult Bone Cancer Survivors (<http://abc-survivors.net/>), and then to other online communities, all sarcoma-related. Toward the end, we went to anyone we could think of who had cancer or had some awareness of it."

Sorens said competing for the \$1,000 daily prizes was especially invigorating.

"We'd be staying up all night, watching the numbers on the site

until the last minute," she says. "That was crazy."

Sarcoma is a rare form of cancer, making up about 1 percent of all cases of adult cancers. Sorens was diagnosed four years ago with osteosarcoma, a bone cancer. She had surgery in 2003, during which doctors removed a significant portion of her right arm, replacing it with titanium and bone from a



**Mary Sorens raised more than \$30,000 for a sarcoma charity, earning her top-10 honors in a national online charity fund-raising competition.**

donor. Her cancer is considered a low-grade form and has not been present since her surgery, she says. Research shows she faces a 10 percent chance of having her cancer recur, an unusually low percentage for sarcomas, according to Sorens.

"The prognosis is pretty good for low-grade forms of this disease," says Sorens. "But low-grade forms are very rare. Most of the people I have met through my support group

have had very aggressive forms of osteosarcoma and other sarcomas.

"Everyone wants to know what the odds are it will come back. What no one thinks about is how much pain you are in and how much disability you have. Treatments of sarcomas are aggressive and surgeries are aggressive. Patients are left with pain and lifelong effects after treatment. Most have aggressive surgeries that change their limbs."

Sorens has been involved with hundreds of sarcoma patients, largely through her online support group, most of whom are in their 20s and 30s. She plans on becoming an oncology social worker after she receives her master's degree from UB. And the more she talks with other patients, the more she realizes the need for research.

"Because I've been involved with so many patients who are sick and dying, I realize you can only do so much with words," Sorens says. "If you don't have money to fund research, people keep dying. That's pretty much it."

Sorens says she will continue her work with Team Sarcoma, an ongoing effort organized through the Liddy Shriver Sarcoma Initiative, designing T-shirts and getting involved in other online Team Sarcoma projects. She plans a trip to Europe this summer with the Liddy Shriver group to increase awareness and raise money for research. The initiative has another UB connection, Sorens says. Bruce Shriver, one of the founders, earned his doctorate in computer science from UB.

Donations to sarcoma research can be made by logging on to <http://www.sarcomahelp.org>.

### BRIEFLY

#### No Reporter next week

The Reporter will not publish next week due to spring break. The next issue will be published on March 20.

#### Chen dancers to be in residence at UB

HT Chen & Dancers, a company at the forefront of contemporary dance and Asian-American performing arts, will be in residence at UB March 18 through April 1. The two-week residency will culminate with a public performance at 8 p.m. March 29 in the Mainstage theater in the Center for the Arts, North Campus.

During the two-week residency, members of the company will teach 13 master classes for UB dance students and give lecture-demonstrations in several Buffalo schools, including the Elmwood Village Charter School, the Charter School of Applied Technology, Tapestry Charter School and the Lydia T. Wright School of Excellence. The activities are provided at no cost to the schools as part of the Center for the Arts' community outreach initiatives.

HT Chen & Dancers was founded in 1978 by HT Chen (Chen Hsueh-Tung), who studied dance at New York University, the Juilliard School and the Martha Graham School of Contemporary Dance. After choreographing and performing for numerous years at the La MaMa Experimental Theatre Club in New York City, Chen decided to present his own work and formed HT Chen & Dancers.

The company has appeared in many important venues for contemporary dance in the United States, and has toured in Europe twice and Asia seven times.

Tickets for the public performance of HT Chen & Dancers are \$18 for general admission and \$10 for students and are available at the CFT box office and at all Ticketmaster locations, including Ticketmaster.com.

#### Seminar to explore cyber security

The School of Management Alumni Association (SOMAA) will hold a breakfast seminar exploring cyber security for small businesses and nonprofit organizations from 7:30-9:30 a.m. on March 19 in the Center for Tomorrow, North Campus.

The seminar, "Cyber Crashes, Disasters and Hackers: Be Prepared," will be part of SOMAA's Smart Business Practices Breakfast Seminar Series. It will include a full breakfast, panel discussion, presentations and question-and-answer period. Topics that will be addressed include wireless security, software patches, spam messages and filters, password security, network monitoring, directory security, user permissions, data backups, encryption and disaster-recovery planning.

The presenters will be Kristopher Meier, director of information technology for Algonquin Studios; David J. Murray, assistant professor of management science and systems in the School of Management; and Gregory S. Gartland, IBM-certified administrator, developer and trainer for the PCA Group.

The cost of the breakfast seminar will be \$25 for SOMAA members, \$30 for nonprofit representatives and \$35 for others who are not members of SOMAA. Reservations are required and must be made by March 14 by calling 645-3224.



## BRIEFLY

## Science Exploration Day set for next week

Although UB students will be on spring break Wednesday, the North Campus will be far from quiet as some 800 high school students come to campus for the 22nd annual Science Exploration Day.

Students from 30 local schools are expected to attend the event, which will be held from 8:30 a.m. to 1:30 p.m. at various sites on the North Campus.

The annual event is organized by Rodney L. Doran, professor emeritus in the Department of Learning and Instruction, Graduate School of Education, who started it more than 20 years ago to interest area high school students in science.

This year's keynote speaker is Diane Bollen, Athena Project coordinator for the Mars Exploration Rover Mission at the Center for Radiophysics and Space Research at Cornell University. Her talk, entitled "The Mars Exploration Rovers: Four Years of Martian Images," will be presented at 9:15 a.m., 10:10 a.m. and 12:20 p.m. in Woldman Theater, 112 Norton Hall.

## Architecture firms to present panel

The School of Architecture and Planning will present a panel discussion on March 17 featuring Craig Borum and Ken Daubmann of the collaborative firm of PLY Architecture.

They will be joined by Vincent James, a principal of the architectural firm VJAA, and by David Miller, a principal of Miller Hull Partnership LLC.

The panel presentation by these national award-winning architects, which will be free and open to the public, will take place at 1 p.m. in 301 Crosby Hall, South Campus, and will be followed by a reception.

PLY Architecture of Ann Arbor, Mich., is actively engaged in design, materials research and fabrication. It received the 2005 AIA Michigan Design Honor Award for its collaborative work with Tiseo Architects Inc. and PEG Office of Landscape and Architecture, for Detroit's Mies van der Rohe Plaza.

VJAA is an architectural practice based in Minneapolis that produces innovative, high-quality buildings through the synthesis of research and design. Among them are the Charles Hostler Student Center at the University of Beirut and the University of Cincinnati Gate House, both of which won 2006 Progressive Architecture Awards.

The Miller Hull firm's buildings focus on sustainability. Winners of the AIA Architecture Firm Award, they received a National AIA Award for housing in Chicago in 2007, as well as many other awards.

The firm always has specialized in environmentally sensitive buildings, beginning with many award-winning, earth-sheltered and solar designs in the early 1980s. Its principles hold that sustainable development solutions create both economic and environmental value.

## JOB LISTINGS

## UB job listings accessible via Web

Job listings for professional, research, faculty and civil service—both competitive and noncompetitive—positions can be accessed at <http://www.ubjobs.buffalo.edu>.

## Biochemist Jennifer Surtees' research focuses on genome stability

## Playing a role in fight against cancer

By KEVIN FRYLING  
Reporter Staff Writer

WHEN Jennifer Surtees chose to pursue a career in molecular biology, she was motivated primarily by the desire to discover "how things work." But the fact that her research on genome stability also plays an important role in the fight against cancer gives the whole effort an extra sense of purpose, she says.

Surtees, who joined the UB faculty last fall as an assistant professor in the Department of Biochemistry, School of Medicine and Biomedical Sciences, says she is interested in the fundamental questions of genome stability—specifically, the mechanisms by which cellular proteins detect and correct mistakes that can happen during the process of DNA replication.

"In order for cells to be functional and healthy," she says, "our chromosomes need to remain intact. Different things can happen to our DNA—environmental factors, such as UV light; endogenous oxidative damage; chemicals that induce damage to DNA—that can induce breaks or modification in DNA. These, in general, are all bad things. As a result, many different DNA repair pathways have evolved to recognize and deal with different types of damage to maintain genome stability."

The pathway preventing a very specific error known as "mismatch repair" plays a particularly important role in her research.

"Every time your cells divide," she explains, "all of your DNA has to be copied so that each cell gets a copy of the DNA. But during that process of DNA replication, mistakes happen. The polymerase [enzyme] that actually does the replication will occasionally insert the wrong nucleotide or slip back and forth to create deletions and insertions."

A cell's mismatch-repair system recognizes these errors, she adds, noting that two very specific proteins involved in the process—

MSH2-MSH3 and MSH3-MSH6—not only play an important role in mismatch repair, but also in a problem that can take place during DNA replication in which parts of two chromosomes are fused together, a mistake that has been linked to cancerous tumors, leukemia and several types of lymphoma.



Jennifer Surtees studies the mechanisms by which cellular proteins detect and correct mistakes that can happen during the process of DNA replication.

"Really, not very much is known about this pathway in terms of mechanistic details," she says. "We know the proteins required, but aren't sure exactly what they're doing."

Surtees points out that problems with the genetic-repair mechanisms she studies also are closely associated with a syndrome known as hereditary nonpolyposis colorectal cancer, or HNPCC—as well as a predisposition to endometrial cancers and other cancers of the gastrointestinal tract. "Over half the cases of HNPCC are caused by mutations in the mismatch-repair system," she notes, "and about 80 percent of people who have HNPCC will get colorectal cancer, as opposed to about 2 percent of the rest of the population." Individuals

with the syndrome also are much more likely to develop the cancer in their 40s, rather than in their 60s, the average age of colorectal cancer patients, she says.

"The best route to ultimate treatment and therapies is to really know what should be happening and what's going wrong," says Surtees.

The recipient of a bachelor's degree from the University of Western Ontario and master's and doctoral degrees in molecular and medical genetics from the University of Toronto, Surtees served as a postdoctoral research fellow in the Department of Molecular Biology and Genetics at Cornell University. She notes that for three years of her six-year fellowship she was funded by the Terry Fox Research Fellowship of the National Cancer Institute of Canada—an award from a foundation that sponsors races all over the world in honor of Terry Fox, a Canadian cancer survivor who fell victim to a resurgence of the disease while on a cross-country marathon to raise money for cancer research in 1980.

Surtees says she is seeking graduate students and outside grants to support her UB research, as well as helping to teach several graduate seminar courses, including a class on protein structure and function.

"I'm really enjoying the Department of Biochemistry," she says, noting that UB features "a strong core group of people interested in DNA replication and repair," including not only faculty in her own department, but also several researchers from Roswell Park Cancer Institute, where she recently presented a lecture as part of a molecular and development genetics seminar program.

"There's a lot of interesting work going on," she says. "Good colleagues, good support—it's a very friendly environment."

Even before joining the UB faculty, Surtees says she was familiar with the university and the City of Buffalo because she used to travel to the area from Cornell to participate in a regional scientific meeting on DNA replication and repair organized annually by Thomas Melendy, associate professor in the Department of Microbiology and Immunology in the medical school.

"There are a lot of connections to this type of work here," she says. "It's nice to have a community where you can talk to people about things and get ideas from people and just not be working in complete isolation."

Originally from North Bay, Ontario—a small city about 200 miles north of Toronto—Surtees now resides in the Parkside neighborhood of Buffalo with her husband, Andrew Bukata, a research assistant professor in the Department of Geology, College of Arts and Sciences.

"Buffalo's a very easy place to live in," she says. "It's not like Toronto or New York City or a lot of other metropolises where it's difficult to get around and a lot more stressful to live in. I'm working in a great department with good students and in a city that I like. What more could you ask for?"

## Aspirin

Continued from Page 1

information on the issue.

The number of patients was nearly 6 times larger than in any of the individual studies included in the meta-analysis, he said. "More importantly, all patients in the UB-Dent study had their aspirin-responder status confirmed—not once, but multiple times. And lastly," he noted, "it was determined objectively by urinalysis that all patients were actually taking their prescribed aspirin."

Of the 20 studies included in the BMJ meta-analysis, compliance was confirmed by telephone or interviews in three studies and was not able to be assessed in three more due to insufficient information, according to the report.

In addition to quantifying the prevalence of aspirin resistance and identifying the relationship between aspirin resistance and clinical aspirin failure, the UB-

Dent study provided other data of clinical importance.

The researchers found that patients with coronary artery disease are more likely to be aspirin resistant, as well as patients with diabetes and those who suffered an earlier stroke, but not a transient ischemic attack (TIA), known as a "mini-stroke."

However, they did not find a relationship between aspirin resistance and hypertension or high cholesterol in their study population. Gengo said this finding likely was due to the fact that patients at the Dent Neurologic Institute are from an affluent suburban population and their hypertension and lipid levels tend to

be extremely well controlled.

The study also found that the younger the patient when the first stroke or heart attack occurs, the higher the risk of being aspirin resistant.

"You can think about that in a couple ways," noted Gengo. "If you have a stroke when you're 50, you probably have much worse vascular disease than the patient who has a stroke at 70, so you are more likely to be aspirin resistant on that basis."

"Also, the younger you are, the faster you turn your platelets over," he said. "If you are making platelets faster, you may need more aspirin, and the faster you make them, the faster you're going to overwhelm the aspirin."

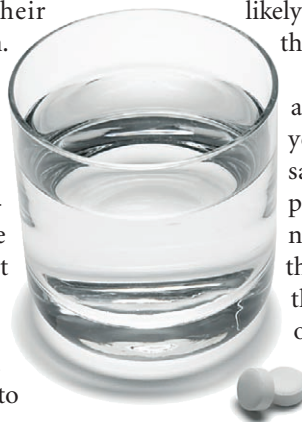
We don't really know for sure, but we specu-

late the higher risk factor in our younger patients is based on one of those two reasons."

The findings in the paper need to be confirmed in a larger study population followed over one to two years, Gengo stated. In the meantime, he suggested that clinicians test a patient's responsiveness to aspirin early on and prescribe accordingly.

UB-Dent researchers who also contributed to the study were Michelle Rainka, UB adjunct instructor of pharmacy; Alan Forrest, UB professor of pharmacy; and Vernice Bates, UB clinical associate professor of neurology. Additional contributors from the Dent Neurologic Institute were research assistants Matthew Robson and Michael Gengo, and Maurice Hourihane, an attending physician.

The study was funded by the Dent Family Foundation.





# Achieving high standards

## UB first SUNY police department to receive accreditation

By **CHRISTINE VIDAL**  
Contributing Editor

**U**NIVERSITY Police was honored for completing the New York State Division of Criminal Justice Services (DCJS) Law Enforcement Accreditation Program at a ceremony held on Friday on the North Campus.

A certificate of accomplishment was presented by Commissioner Denise E. O'Donnell, DCJS, who heads the division and is assistant secretary to the governor for criminal justice, to Gerald W. Schoenle Jr., UB chief of police; Lt. Chris Bartolomei, UB accreditation manager; and University Police.

University Police is the first SUNY police department to receive DCJS accreditation, which recognizes professionalism in law enforcement by establishing standards of performance.

"I am immensely proud of the pivotal role that the New York State Division of Criminal Justice Services plays in training and educating law enforcement officers, and equally proud that UB, where I obtained my law degree, is such a pioneer," O'Donnell said. "It is only fitting that Gov. Spitzer's flagship university should be served by a flagship police department.

"Today's police professionals—and that's what these officers at UB are, 'professionals'—must be people of all seasons, prepared to meet any and every challenge. UB recognizes the importance of maintaining a cutting-edge police department, and I salute the university for holding itself to the highest standards of excellence," she said. "I would like to convey to the entire UB community my

respect and congratulations on reaching this milestone."

Schoenle said he was extremely proud of the members of University Police "for working so hard to achieve this high standard."

"Going through the accreditation process has made us a better police department and supports our mission to provide a safe and welcoming environment for the students, visitors, faculty and staff to live, learn, work and play," he said. "In these changing times, it is imperative that police agencies do everything they can to respond to the safety concerns of our communities. The accreditation process is a great way for agencies to improve



Denise O'Donnell presents certificates of accomplishment to chief Gerald Schoenle (right) and Lt. Chris Bartolomei.

their operations by adhering to known best practices."

Dennis R. Black, vice president for student affairs, said the accreditation reflects the UB department's commitment to excellence.

"A campus community has unique challenges," Black added. "UB's police force is well prepared to address these challenges and is well respected for their excellence. Seeking this accreditation allowed us to measure our law enforcement processes against what works best across the industry and to adjust our practices, if necessary, to prepare for both day-to-day safety issues, as well as an unforeseen crisis. We are so proud of our University Police for achieving this accreditation."

The DCJS accreditation program

is designed to help police agencies evaluate and improve their overall performance, and provides formal recognition that the organization meets or exceeds general expectations of quality in the field. Among all New York state police agencies, 123 police departments and sheriffs' offices have successfully completed the process. This represents only 20 percent of all New York state police agencies.

The program aims to increase the effectiveness and efficiency of New York state law enforcement agencies by utilizing existing personnel, equipment and facilities; promoting increased cooperation and coordination among law-enforcement and criminal-justice agencies; ensuring appropriate training of personnel; and adopting best-practices policies and procedures that meet mandatory standards.

Agencies participating in the accreditation program must meet or exceed 130 standards in administration, training and operations.

Accreditation is awarded following an on-site assessment by an independent team of assessors. The DCJS committee that awards accreditation to agencies includes representatives of the New York State Association of Chiefs of Police, the New York State Sheriffs' Association, the New York state police superintendent, New York City police commissioner, an official of a statewide police labor organization, an incumbent police officer, a deputy sheriff and a college criminal-justice professor. Other members represent the Association of Counties, Association of Towns, Conference of Mayors and state Senate and Assembly.

Benefits of completing the program include identifying and correcting procedural deficiencies, developing proactive management systems, reducing the likelihood of liability litigation and securing community, local and state government support.

# Frampton is Clarkson chair

By **PATRICIA DONOVAN**  
Contributing Editor

**T**HE 2008 Will and Nan Clarkson Visiting Chair in Architecture will be the eminent British architect, critic and historian Kenneth Frampton, Ware Professor of Architecture in the Graduate School of Architecture, Planning and Preservation at Columbia University.

The lecture, sponsored by the School of Architecture and Planning, will be presented at 5:30 p.m. March 26 in 301 Crosby Hall, South Campus. A reception will follow. Both will be free and open to the public.

Frampton is best known for his writing on 20th-century architecture. Among his notable contributions to the literature is his defense of a version of modernism that looks to "critical regionalism," a term coined to describe architecture distinctive to a particular region, architecture that reflects its landscape

and is built of materials that are local and distinctive to that region.

In his 1995 book "Studies in Tectonic Culture," he re-presented the entire tradition of modern architecture, employing the notion of tectonics to cast a critical light on the entire issue of modernity and the artistic limits of postmodernism by focusing on architecture as a constructional craft.

Frampton trained as an architect at the Architectural Association School of Architecture in London, and has worked as an architect, critic and architectural historian—he is a doyen of architectural history—in England, Israel and the United States.

He has written extensively and contributed to many international journals. He also is the author of such distinguished books as "Modern Architecture: A Critical History" (1980, updated and expanded in 2007), "Modern Architecture and the

Critical Present" (1980), "American Masterworks" (1995), "Le Corbusier" (2002), "Labor, Work and Architecture" (2002) and important books on architects Alvaro Siza, Kenneth Meier, Steven Holl, Michael Hopkins, Robert Marino and others.

He has received numerous awards, including the AIA National Honors Award (1985), the L'Academie d'Architecture Gold Medal (1987), Phi Beta Kappa Award (1987), the AIA New York Chapter Award of Merit (1988) and the ASCA Topaz Award (1990).

The Clarkson Visiting Chair is an endowed visiting position awarded semiannually to a distinguished scholar or professional in the disciplines of architecture, planning and design. This award recognizes excellence in the pursuit of scholarship and professional application within these disciplines, and is made possible by the generous support of Will and Nan Clarkson.

## ElectronicHighways

### What's in a name?

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**Now that March is upon us**, chances are you'll hear someone belching phrases like, "Beware the ides of March" and "In like a lion, out like a lamb." Ever wonder about the true meaning behind words? One cannot escape the power of language, especially with all of the current speeches and heated debates presently taking place between the potential presidential candidates.

One of the best resources for tracing the meaning of a word is the "Oxford English Dictionary" (<http://ublib.buffalo.edu/libraries/e-resources/oed.html>). It covers the English language from the earliest times to the present day. According to Oxford, "Beware the ides of March" was first used in 1601 by Shakespeare in "Julius Caesar." For a look at the original play, check out Early English Books Online at <http://ublib.buffalo.edu/libraries/e-resources/eeb.html>.

Brewer's Dictionary of Phrase and Fable (<http://www.bibliomania.com/2/-/frameset.html>) is an excellent source for phrases that have their roots in literature or mythology. Follow the research and reference links from the Bibliomania home page.

If you're more interested in the language of today, check out Word Spy (<http://www.wordspy.com/>), which is devoted to "lexpionage," the sleuthing of new words and phrases. These aren't "stunt words" or "sniglets," but new terms that have appeared multiple times in newspapers, magazines, books, Web sites and other recorded sources. For example, a "Frankenstein veto" is a veto in which the words in a bill are deleted or rearranged to form a new bill with an entirely different meaning.

Annoyed by alliteration? Baffled by balderdash? Evan Morris, a.k.a. The Word Detective on the Web (<http://www.word-detective.com>), provides readers with amusing and enlightening answers to questions about the meaning, origin and usage of some of today's most baffling words and phrases.

Fun-With-Words (<http://www.fun-with-words.com/>) offers both an educational and entertaining take on the English language. With language trivia and word games, it covers such topics as redundant phrases, ambiguity, etymology, tongue twisters, anagrams, palindromes, pangrams, rebus puzzles, the longest word, word riddles and more. Related books are reviewed and recommended.

Apple, Zahara and Shiloh are some nontraditional names recently chosen for celebrity babies. For the scoop on the most popular names, arranged by year and country, use Behind the Name (<http://www.behindthename.com>).

If you want to share your love for words, wordplay, language and literature, visit Wordsmith.org (<http://wordsmith.org/awad/index.html>). Chat with renowned authors in the field of linguistics, such as Michael Erard, author of "Um...: Slips, Stumbles, and Verbal Blunders, and What They Mean."

Haven't had your fill of words? Test your knowledge of where our everyday language comes from with the Phrase Origins Quiz at The Phrase Finder (<http://www.phrases.org.uk/index.html>).

—Laura Taddeo, University Libraries

## Briefly

### Nazarian exhibition on display in UB Art Gallery in CFA

"Introversions," an exhibition by architect and UB faculty member Shadi Nazarian, is on view through May 17 in the Lightwell Gallery in the UB Art Gallery in the Center for the Arts, North Campus.

In this project, Nazarian, clinical associate professor of architecture in the School of Architecture and Planning, frames and choreographs an architectural experience as audiences are drawn toward a responsive minimalist structure, seemingly hovering in midair. Working in the fertile intersections of art, architecture and emergent technology, she employs switchable liquid-crystal-layered privacy glass to explore cognition and think about the ways in which we navigate the environment we live in.

In the commercial sector, privacy glass has been used primarily for partitions, display cases and bank screens, and enclosures for conference rooms, and in dressing rooms and bathrooms. Presented in an academic and artistic context, "Introversions" seeks to discover how new materials such as privacy glass fundamentally alter spatial relationships and human perception. Nazarian isolates and enhances disorienting moments inherent to urban conditions that are triggered by reflections and other intriguing sights seen out of the corner of the eye by combining minimalist sculpture and architecture to generate uncanny optical effects.

Nazarian has worked as an architectural designer for I.M. Pei & Partners, and has taught at Cornell University. She has been teaching at UB since 1994.

"Introversions" is sponsored in part by grants from the New York State Council on the Arts and New York Foundation of the Arts special opportunity stipends, as well as the support of Knema LLC, Polytronix Inc. and SMG-Harson.



## BRIEFLY

## Brubeck quartet to perform in CFA

The Center for the Arts will present the Dave Brubeck Quartet at 8 p.m. March 25 in the Mainstage theater in the CFA, North Campus.

Designated a "living legend" by the Library of Congress, Dave Brubeck continues to be one of the most active and popular musicians in the world today. During a career that has spanned more than six decades, his experiments with odd time signatures, improvised counterpoint and distinctive harmonies remain hallmarks of a unique musical style, unfazed by fad and fashion.

While increasingly active as a composer, Brubeck has remained a leading figure in the jazz mainstream, appearing at jazz festivals, recording, and touring internationally with today's version of the Dave Brubeck Quartet—Bobby Militello, sax and flute; Randy Jones, drums; and Michael Moore, bass.

Buffalo native Bobby Militello first caught Brubeck's ear at a jazz festival when he stepped out in front of the Maynard Ferguson band to take a "dazzling" flute solo. Brubeck asked Militello to audition for the quartet in 1982 and they have been playing together ever since.

British-born drummer Randy Jones joined the Dave Brubeck Quartet in 1978 after having played with such greats as Ferguson, Gerry Mulligan, Chet Baker, Milt Jackson, Bill Watrous, Harry James, Cleo Laine, Tony Bennett and Billy Eckstein. He has recorded numerous albums and has performed with the quartet in the U.S., Japan and Europe.

The most recent member of the quartet, bassist Michael Moore, is an acknowledged master of his instrument, as well as a leader of his own duo and trio that feature the bass as a solo instrument. Born in Cincinnati, Michael started his musical training at the Cincinnati Conservatory of Music. After joining the Woody Herman band at age 20, he became an important player in the New York jazz scene, recording and performing with such artists as Marian McPartland, Bill Evans, Stan Getz, Chet Baker, John Scofield, Tony Bennett and many others.

Tickets for the Dave Brubeck Quartet are \$35 for general admission and \$30 for students and are available at the CFA box office and at all Ticketmaster locations, including Ticketmaster.com.

For more information, call 645-ARTS.

## LETTERS TO THE EDITOR

## Sending Letters to the Reporter

The Reporter welcomes letters from members of the university community commenting on its stories and content. Letters should be limited to 800 words and may be edited for style and length. They must be received by 9 a.m. Monday to be considered for publication in that week's issue. The Reporter prefers that letters be received electronically at [ub-reporter@buffalo.edu](mailto:ub-reporter@buffalo.edu). For the Reporter's policy regarding letters to the editor, go to <http://www.buffalo.edu/reporter/letterspolicy.html>.

## BioBlower passes Department of Defense tests; patent to be issued soon on technology

## Protecting against biological attacks

By ELLEN GOLDBAUM  
Contributing Editor

A powerful air sterilization technology developed at UB has killed every biological agent with which it has been challenged, including airborne spores, viruses and bacteria in independent tests conducted for the U.S. Department of Defense.

A prototype produced by Buffalo BioBlower Technologies LLC, a UB spin-off company, destroyed biological agents to a level of better than one part per million in an independent evaluation conducted over a period of four weeks by the Research Triangle Institute for the U.S. Department of Defense Joint Program for Chemical and Biological Defense Collective Protection.

In a related development, UB recently received a Notice of Allowance, indicating that a U.S. patent will issue soon covering the BioBlower technology.

"Everything from hospitals, first-responder units and postal facilities to government buildings and mass-transit systems could benefit enormously from the security and peace of mind generated by this device," said U.S. Rep. Louise M. Slaughter, who secured the funding from the Department of Defense. "Once again, our region is serving as a leader in technological development, and it is this labor and innovation that are benefiting people both locally and throughout our country."

The positive outcomes in the independent evaluation indicate that BioBlower could, in the near future, be protecting soldiers from bio-

logical attack, according to James F. Garvey, professor in the Department of Chemistry, College of Arts and Sciences, and co-founder and chief technical officer of Buffalo BioBlower Technologies with John Lordi, chief executive officer.



BioBlower, shown here with developers (from left) James Garvey and John Lordi, is moving closer to being used to protect soldiers from biological attack.

Lordi is a research professor in the Department of Mechanical and Aerospace Engineering in the School of Engineering and Applied Sciences. James D. Felske and Joseph C. Mollendorf, professors in the same department, are co-

inventors with Garvey and Lordi.

"This independent third-party validation of our technology was so exceptionally compelling that the military has now directed us to retrofit one of their existing platforms with a BioBlower as a technology demonstration," Garvey said.

The military system now being retrofitted with BioBlower is used to inflate the hospital units and temporary shelters erected in the battlefield for command headquarters.

"We're removing their current fan and replacing it with our electrical air pump, the BioBlower, which also will instantly kill any airborne biological agents on contact," Garvey said.

Conventional technologies involve the use of HEPA (high-efficiency particulate air) filters, which simply trap large airborne spores. These passive filters have to be regularly replaced and properly discarded, posing a further potential hazard to personnel, Garvey said. In addition, they provide little or no protection against airborne viruses.

"Right now, it's up to soldiers in the field to swap out these filters and replace them, which involves considerable logistic demands, such as labor and expense," said Garvey.

In contrast, he noted, the BioBlower immediately kills any and all airborne biological pathogens and only electricity is needed to power the rotary air pump, which drives the blower. BioBlower units can be installed as a permanent part of a building's air-handling system.

The technology also has potential applications in health care and hospital settings to ensure a sterile environment. The New York State

Foundation for Science, Technology and Innovation (NYSTAR) currently is funding development of a BioBlower prototype for health care settings with the goal of taking it into clinical trials.

BioBlower also has application to the home health care setting, a market poised to experience tremendous growth in coming years, said Garvey, who adds that a small portable unit could completely sterilize all of the air in any room in the house.

The BioBlower technology moved out of UB's laboratories and into the commercialization phase thanks to funding from several sources, including the U.S. Department of Defense, secured by Slaughter; UB's Office of Science Technology and Economic Outreach; NYSTAR; and the UB Center for Advanced Biomedical and Bioengineering Technology, part of UB's New York State Center of Excellence in Bioinformatics and Life Sciences, where Buffalo BioBlower Technologies is based.

BioBlower is based on a modification of a Roots blower, a mechanical air-pump technology that has been in existence for more than 100 years and has been used for a range of applications from vacuum pumps in research laboratories to superchargers for drag-racing "funny cars."

The BioBlower destroys airborne pathogens by rapidly heating the contaminated air under pressure and mechanically compressing it as it is being blown rapidly through the mechanical rotary pump. The system then blows the disinfected air back into the enclosed environment, whether it is a tank, plane, ship, tent or building.

## Manuel earns place on 'Forty Under 40' list

## Director of athletics saluted for his work by national Sports Business Journal

By PAUL VECCHIO  
Reporter Contributor

WARDE J. Manuel, director of athletics, is one of 25 individuals selected by *Street and Smith Sports Business Journal* to be among its national "Forty Under 40" award winners honoring the best and brightest executives in the sports business industry under the age of 40.

Manuel becomes just the fifth college administrator to earn the designation in a pool of 232 honorees over the nine years that the magazine has compiled the list. The selection also gives UB athletics an unprecedented pairing, as Anucha Browne-Sanders, senior associate athletics director and senior woman administrator, was honored in 2002 while with the New York Knicks. Among other Western New Yorkers, only Russ Brandon, chief operating officer of the Buffalo Bills (honored in 2001) has made the list.

Manuel, who in his three years as director of athletics at UB has led the Bulls' program to several national honors, will receive the award on March 14 in Beverly Hills, Calif.

"While I accept this award on behalf of UB, I also accept it on behalf of our truly outstanding staff,

coaches and student-athletes that I work with every day in the Division of Athletics," Manuel said.

"President John Simpson has given us the opportunity to earn success on the competitive fields of play of Division I athletics and this award is a by-product of his commitment, in the hands of professionals who are working extremely hard to put UB's athletics programs on the national landscape," said Manuel. "I continue to be excited about the future of UB's athletics programs within the scope of President Simpson's tremendous vision for our university with UB 2020."

Praising Manuel for earning the honor and, in turn, bringing recognition to the university, Simpson noted: "This is a great and well-deserved achievement for Warde. Since his arrival at UB, Warde has embodied the best of our approach to excellence in all we do.

"When it comes to our scholar-athletes, and the entire UB athletics team, Warde sets his expectations high—in the classroom and on the field—and then finds creative ways to help people achieve them," Simpson added. "This honor is a reflection of that hard work and integrity."

Since joining UB, Manuel has increased the focus on academics by

creating a new study center, quadrupling the investment in tutorial support and doubling the number of computers available to student-athletes. Last fall, UB achieved the highest average cumulative GPA since 2004 and the second highest since joining the Mid-American Conference in 1999. In addition, the football team last fall posted the highest GPA in its Division I-A history.

The 2007 football program had its best year since moving up to the Division I-A level and joining the MAC, gaining a share of the MAC East Division title for the first time in school history.

Last fall, UB's athletics department was recognized by the NCAA Division I-A athletic directors as a Program of Excellence, the only school in the nation to receive that designation for 2006-07. Earlier in the year, the Women's Sports Foundation honored UB as one of four "standout" colleges and universities in the nation for outstanding achievement in providing equitable athletics opportunities for its female student-athletes.

"While I accept this award on behalf of UB, I also accept it on behalf of our truly outstanding staff, coaches and student-athletes."

WARDE J. MANUEL



The women's tennis team and the men's soccer team have advanced to the MAC Championships twice since Manuel's arrival at UB. The baseball team completed its most successful MAC season in school history in 2007 and the women's rowing squad finished its best season in 2006, and matched it again in 2007.

Manuel has been a successful recruiter whose hirings have included that of Turner Gill as head football coach, has balanced a budget that has grown by nearly \$4 million while increasing corporate sponsorships by 40 percent and has helped the department secure two of its five largest gifts. They are a \$500,000 gift from Robert G. and Carol L. Morris that doubled the weight-room space with the addition of a sports performance center and a \$640,000 gift from Harold Ortman that will benefit the men's and women's tennis programs.



# TheMail

## Books should be the heart and soul of the library

### To the Editor:

For a depressing experience on campus, go down to the undergraduate library in Capen Hall. In the newly renovated ground-floor lobby, some of the couches face the wall—the one where newly acquired books were once displayed—on which a flat-screen TV educates students with round-the-clock cable news. Past the couches and the check-out counter is the computing sweatshop, where anxious students with backpacks get 15-minute shifts, jostling each other at stand-up work stations.

Take the stairs down to the basement and, yes, there are books there. But all the activity is at large tables, where, as is normal enough, students are poring over assignments and pecking away at laptops. The aisles between the stacks are vacant. As I find from a cursory survey this morning, not one book is being consulted from the collection.

Wandering by the shelves, I see hardly any books from this century, and none more recent than 2004. At the very place where our eager and perky students—dressed in their best skull-and-crossbones T-shirts, their ears and cheeks freshly perforated—might get the chance to make acquaintance with some good books, all they will find is a collection that is old, dusty and musty. Not that an old collection is bad, but that it needs some grooming, some culling and some rejuvenation if it's to remain appealing. If our library now inspires me at all, it's to learn how it descended into such a disheveled condition.

My first impulse is to think that, as the signs brag, it's now a "cybrary" not library, and the money has gone for cyclops screens instead of books. But then, I know that plenty is still spent on that quaint technology between covers, and many arcane titles, dutifully ordered from academic publishers, arrive on campus each year—so why do they not find their way to this particular basement?

## Safety alerts promote prejudicial environment

### To the Editor,

I am a male, black student at UB who has never found the campus alerts—at least those that warn of suspicious people—to be of much use.

When I envision the alleged perpetrators through the provided descriptions, I cannot help but envision myself, my relatives, my peers, or any other black male for that matter. When I notice these messages, such as the one concerning a robbery at Northrup Place on Feb. 28, I only acknowledge the perpetuation of the brute caricature.

The alert only alerts me that it would be best not to walk around with a gray or brown hoodie for a week or two, nor blue jeans, nor baseball cap, nor shirt, nor boxers, nor socks, nor shoes. It would probably be best to walk around naked, or else I would attract suspicion, fear or hate.

I hate to attack a system used to maintain a sense of safety among the university community, but I cannot help but contemplate a bet-



PHOTO: DOUGLAS LEVERE

I'll wager as one answer that our arch-cybrarians are no longer sure why there should at all be a place that is called the "undergraduate library." Lockwood Library, our largest, is easily enough understood as a warehouse in which truckloads of books from the academic presses can be stored. But, why does a university need a small, general collection?

Well, it's to such a library I would go to be introduced to a subject. It's where I would hope to meet a good book or two on Roman history, or the art of Dürer, or the science of meteorology, without having to wind my way through acres of hyper-specialized volumes. It's also where I would like to find the best and most enduring, whether among novelists or philosophers. The making of such a collection is daunting. It's all the more so in our time, when many of our faculty members have acquiesced to the politicization of knowledge and are unsure how to identify, or don't even trust in the existence of, the enduring and the excellent.

If we had such a library, it's where I would go to browse, discover and savor books so written that I would be able to follow them through the twists and turns of argument, even if, as is highly likely, I have never taken a college course on the subject. That, too, is why the collection has to be of books. What's marvelous about them is not that they're made of paper, as the nostalgic persist in thinking, but that

they're still the only practical way to engage ideas at full length. The most outstanding books, the ones that merit some struggle, can reshape one's very mode of thinking and change one's life.

To have a relationship that intense and that satisfying with a book, we have to make a commitment to stay together long enough to pass through some difficult times together. The book is, therefore, an engagement, not a date. When we meet, we should be in a place where we can sip ideas and bathe in articulated knowledge instead of having to slurp data and surf sites. To become intimate, we need time, patience, privacy and an environment conducive to them. That environment is the library.

The library I have in mind is not particularly for undergraduates, though they're invited too, but for all of us who want to take some time on a snowy day to rendezvous with our intellectual heritage, and not spend our college years twitching and jerking across wastelands of blinking information. If the old name is too bland, we can give it a cool, new one, say Planet Polymath or Bibliophilia. Our campus needs reading rooms designed and collections cultivated to foster intimacy with ideas.

**Ernest Sternberg**  
Professor

*Department of Urban and Regional Planning.*

*School of Architecture and Planning*

ter solution, for the one currently in use may create more problems than it solves. With the exception of a rare few alerts, who is endowed the ability to avoid the victimization these messages purport?

Let's examine the rare campus bulletins that make a difference. One that I noticed was a memo that stated the perpetrator's routine—this particular person pretended to ask for directions to the university. This description at least provides more substance to work with than "beware of every black man 4 feet to 7 feet tall, weighing 120 lbs. to 320 lbs., between the ages of 10 and 40." Although I may now attract suspicion if I ask for directions, I now have to do more than merely be.

And we as a university community have to do more. As students, we must be more vocal toward these social retardations, such as being stopped on campus by university police and asked for identification while all other students traverse unmolested. As informers,

we must not stimulate an oppressive or prejudicial environment through misuse of information.

A suggestion: Try two formats for campus alerts, one a broad format, the other a descriptive format. When you lack any real information to aid in the apprehension of criminals, try a broad message that informs the community of what took place and how to avoid victimization—no need to say "six to 10 black males, ages 14 to 17, all in blue jeans, stole a woman's purse on Englewood." Instead, try "a group of five to 10 juveniles robbed a student on Englewood. Remember to travel in groups, rather than alone," or something of the sort.

When there is a satisfactory description of the suspect—a picture, a scar, the location of a tattoo, the individual's routine, a well-known person or a name—then provide a more detailed alert.

Fed up,

**Sean Solitaire**  
UB student

# SportsRecap



## Basketball

### MEN'S

#### Akron 76, UB 56

UB dropped a 76-56 decision at Akron on Saturday night.

Akron used the three-point shot to its advantage, with 13 of 20 field goals coming from beyond the arc. In the second half alone, the Zips shot 7 of 10 from long range.

UB worked the ball down low for its scoring chances and it proved successful—the Bulls outscored the Zips, 36-12, in the paint.

### WOMEN'S

#### UB 68, Akron 54

#### Bowling Green 74, UB 47

UB picked up its second-straight victory on Feb. 27, using a strong defensive performance to defeat Akron, 68-54, in Alumni Arena.

On Saturday, the Bulls had their two-game winning streak broken, falling to host Bowling Green, 74-47. The Falcons used a 21-2 run midway through the opening half and never trailed. The Bulls fell to 14-14 on the year and 7-8 in the MAC.

## Swimming

### MEN'S

#### Ruske wins three MAC titles

UB finished seventh overall and third among the four Mid-American Conference schools at the combined MAC-Sun Belt Championships held in Nashville over the weekend. Missouri State won the overall competition; Eastern Michigan was the top MAC program.

Junior Zach Ruske won three individual events for the Bulls—the 200-yard individual medley, the 100-yard backstroke and the 200-yard backstroke.

Sophomore Michael McDowell earned a third-place finish on the one-meter diving board and a fifth-place finish on the three-meter springboard.

## Indoor Track and Field

### Villa wins women's shot put title to lead Bulls at MAC Championships

The men's and women's track-and-field teams competed at the 2008 MAC Championships over the weekend. The UB women finished in sixth place, while the men ended up tied for fourth place. Akron won the women's competition and Eastern Michigan took the men's crown.

Tina Villa continued her outstanding season, claiming the MAC championship in the shot put with an NCAA provisional mark and personal best distance of 15.59m.

In the 60-meter hurdles, Patrice Coney set a new school record in the event, finishing sixth with a time of 8.60.

On the men's side, Ezekiel Porter had an excellent showing in the 60-meter dash, taking second place with a season-best time of 6.86.

Three UB athletes earned All-MAC honors. Villa was named to the first team, while Coney and Porter earned second-team honors.

## Tennis

### WOMEN'S

#### Temple 5, UB 2

#### UB 4, Army 3

UB earned a split of its weekend matches, defeating Army in dramatic fashion, 4-3, but falling short in a highly contested match against Temple, 5-2. The Bulls are now 4-2 on the season.

In the match against Temple on Saturday afternoon, the Bulls took the doubles point. Although junior Smaranda Stan, playing fourth singles, picked up the only victory for the Bulls in singles play, UB fought hard in each match—each of the first three singles matches was decided in three sets.

In the Sunday match, UB and the host Black Knights were locked in a 3-3 duel with just the number-one singles match to be completed. Andreea Novaceanu prevailed, winning a three-set thriller over Anne Houghton, 4-6, 6-4, 7-5.

The Bulls will head to Florida for spring break matches.

## Baseball

#### Morehead State 3, UB 2; Morehead State 7, UB 6 (9)

#### Morehead State 5, UB 1; UB 10, Morehead State 3

UB dropped two one-run contests at Morehead State on Saturday, falling in game one, 3-2, and in game two, 7-6.

On Sunday, the Bulls secured their first win of the season with a 10-3 victory in the second game of a doubleheader against the Eagles. UB hit five home runs in the contest—matching its total from the entire 2007 season. Jacob Rosenbeck led the way with a pair of round-trippers.

UB fell in the first game of the day, 5-1. The Bulls are now 1-6 on the year.

## Softball

#### UB vs. Morehead State, canceled, rain; UB 11, Marshall 6

#### Wright State 9, UB 4; Eastern Illinois 9, UB 1

#### Connecticut 11, UB 3

UB picked up its first win of the season, defeating former MAC foe Marshall, 11-6 in the first game of the 2008 Frost Classic at the University of Tennessee-Chattanooga. Freshman Stephanie Visperas picked up her first collegiate win on the mound for UB, throwing the complete game and striking out two.

In the nightcap, UB dropped a hard-fought 9-4 contest to VVright State. Sharon Barr pitched the complete game for the Bulls, finishing with five strikeouts. She also had a hot bat, knocking in three runs.

The Bulls were upended in both of Sunday's contests, falling to Eastern Illinois, 9-1, and suffering an 11-3 setback to Connecticut.

UB returns to action tomorrow at the UC-Riverside tournament.



# UB EVENTS

The Reporter publishes listings for events taking place on campus, or for off-campus events where UB groups are principal sponsors. Listings are due no later than noon on the Thursday preceding publication. Listings are only accepted through the electronic submission form for the online UB Calendar of Events at <http://www.buffalo.edu/calendar/login>. Because of space limitations, not all events in the electronic calendar will be included in the Reporter.



## Thursday, March

# 6

### Learning and Development Course

Introduction to Word 2003/Introduction to Excel 2003. 320 Crofts. 9 a.m.-noon and 1-4 p.m. \$89. For more information, 645-7777.

### Library Instruction

EndNote Basics. Media Instruction Room, Health Sciences Library. 11 a.m.-12:30 p.m. Free; registration recommended. For more information, 829-3900, ext. 112.

### Teaching and Learning Center Workshop

PowerPoint and Multimedia. 212 Capen. 1-4 p.m. Free; registration for faculty, staff and graduate students. For more information, 645-7700, ext. 0.

### Seminar

PTH-Calcium Related Bone Homeostasis and PK/PD Model Development for Calcium Receptor Antagonists. Anson Abraham, Dept. of Pharmaceutical Sciences. 201 Natural Sciences. 4 p.m. Free.

### Biological Sciences Seminar

Zebrafish Enteric Nervous System Development: The Lessons From Lessen. Iain Shepherd, Emory University. 215 Natural Sciences. 4 p.m. Free. For more information, 645-2363, ext. 234.

### Architecture and Planning Lecture Series

GSA Architecture Lecture. Inaki Abalos and Juan Herreros, Abalos & Herreros Architects. 301 Crosby. 5:30 p.m. Free. For more information, 829-3485, ext. 120.

### International Women's Film Festival

Body Counts: Night of Shorts. Market Arcade Film and Arts Centre, 639 Main St., Buffalo. 7 p.m. \$8.50, general; \$5, students/seniors.

### Electronics Lecture

Putting Spin Into Electronics: Vision for the Future. Igor Zutic, Dept. of Physics. Woldman Theater, 112 Norton. 7:30-9 p.m. Free.

### Concert

The Irish Rovers. Mainstage theater, Center for the Arts. 8 p.m. \$25, general; \$15, students.

## Friday

# 7

### EOC Meeting

Annual Legislative Breakfast Meeting. Educational Opportunity Center, 465 Washington St., Buffalo. 8 a.m.-9:15 a.m. Free. For more information, 849-6727, ext. 149.

### International Student and Scholar Services Workshop

Communicating With International Students. 120 Clemens. Noon-1:30 p.m.

### Library Instruction

LIB 119: Research in the Arts and Humanities. 109 Lockwood. 2-4 p.m. Free. For more information, lclcharl@buffalo.edu.

### Foster Chemistry Colloquium

Nitric Oxide Signaling: Selectivity and Reactivity. Michael A. Marletta, Univ. of California-Berkeley. 200G Baldy. 4 p.m. Free.

### Evolution, Ecology and Behavior Seminar

Dynamics of an Insect Ectosymbiont-Host Interaction From Streams in Southern Maine. Chris Pennuto, Buffalo State College. 115 Talbert. 4 p.m. Free.

## Saturday

# 8

### Cutting Edge Lecture Series

Treasures of the Spanish Main, or the Hidden Origins of American Societies. José Buscaglia, Dept. of Romance Languages and Literatures. Screening Room, Center for the Arts. 10:30 a.m. Free.

### Library Instruction

LIB 132: Research in Anthropology. 109 Lockwood. 12:30-2 p.m. Free; registration recommended. For more information, cat2@buffalo.edu.

### Swing Dance Class

Intermediate Swing. Clark Hall Dance Studio. 12:30-1:30 p.m. \$2. For more information or to register, ubswingdance@gmail.com.

### Swing Dance Class

Beginner Swing. Clark Hall Dance Studio. 1:30-2:30 p.m. \$2. For more information or to register, ubswingdance@gmail.com.

## Monday

# 10

### Library Instruction

EndNote Basics. Media Instruction Room, Health Sciences Library. 10-11:30 a.m. Free; registration recommended. For more information, 829-3900, ext. 112.

## Wednesday

# 12

### Library Instruction

Maximizing Google's Potential: Assessing Your Bibliography. Media Instruction Room, Health Sciences Library. 2-3:30 p.m. Free; registration recommended. For more information, 829-3900, ext. 112.

### Nuclear Medicine Grand Rounds

Gastric Emptying Consensus Recommendations and Update. Alan H. Maurer, Temple Univ. Hospital. 117 Parker. 5-6:30 p.m. Free.

## Thursday

# 13

### Teaching and Learning Center Webinar

Second Life in the Classroom. 212 Capen. 10 a.m.-noon. Free; registration for faculty, staff and graduate students. For more information, 645-7700, ext. 0.

### Library Instruction

LIB 105: Introduction to EndNote. 127 Capen. Noon-1:30 p.m. Free; registration recommended. Sponsored by Arts and Sciences Libraries. For more information, dbertuca@buffalo.edu.

## Saturday

# 15

### Swing Dance Class

Intermediate Swing. Clark Hall Dance Studio. 12:30-1:30 p.m. \$2. For more information or to register, ubswingdance@gmail.com.

### Swing Dance Class

Beginner Swing. Clark Hall Dance Studio. 1:30-2:30 p.m. \$2. For more information or to register, ubswingdance@gmail.com.

### Concert

K.D. Lang. Mainstage, Center for the Arts. 8 p.m. \$65, \$55, \$35.

## Monday

# 17

### Architecture and Planning Lecture Series

Buffalo Workshop. Craig Borum, Karl Daubmann, Vincent James, David Miller, Ply Architects, VJAA, Miller Hull Partnership. 301 Crosby. 5:30 p.m. Free.

## Tuesday

# 18

### Learning and Development Course

Introduction to Word 2007/Introduction to Excel 2007. 320 Crofts. 9 a.m.-noon and 1-4 p.m. \$89. For more information, 645-7777.

### Library Instruction

LIB 122: SciFinder Scholar I—An Introduction. 212 Capen. 9-10:30 a.m. Free; registration recommended. For more information, abwagner@buffalo.edu.

### Law Luncheon Presentation

Walking the Line: Working to Reform Legal Education in Eastern Europe. Isabel Marcus, UB Law. 509 O'Brian. Noon-2 p.m. Free. For more information, 645-2102.

## Editor's Pick

### Monterey Jazz

The Center for the Arts will present the Monterey Jazz Festival 50th Anniversary Tour at 8 p.m. Tuesday in the Mainstage theater in the CFA, North Campus.

### 2008 Science Decade Lecture Series

Protein Folding: Sequence Determines Shape. Latif Kazim, Roswell Park Cancer Institute. Gaylord-Cary Meeting Room, Research Studies Center, RPCI. Noon-1 p.m. Free. For more information, 845-3063.

### Library Instruction

LIB 123: SciFinder Scholar II—Substructure/Reaction Searching. 212 Capen. 3-4:30 p.m. Free; registration recommended. For more information, abwagner@buffalo.edu.

### International Student and Scholar Services Workshop

H-1B Visas: An Information Session. 31 Capen. 4-5:15 p.m. For more information, 645-2258.

### Molecular Recognition in Biological Systems and Bioinformatics Seminar Series

Visualizing Glutamate Receptor Function. Dean R. Madden, Dartmouth Medical School. 144 Farber. 4 p.m. Free.

### Buffalo Film Seminar

"Being There." Market Arcade Film and Arts Centre, 639 Main St., Buffalo. 7 p.m. \$8.50, general; \$6.50, students; \$6, seniors.

## Wednesday

# 19

### Library Instruction

LIB 109: EndNote for English Literature. 109 Lockwood. 10-11:30 a.m. Free; registration recommended. For more information, ltaddeo@buffalo.edu.

### Chemical and Biological Engineering Seminar

Engineering Microenvironments for Cardiovascular Regeneration. Milica Radisic, Univ. of Toronto. 206 Furnas. 11 a.m. Free.

### Teaching and Learning Center Workshop

Photoshop: Introduction. 212 Capen. 1-4 p.m. Free; registration for faculty, staff and graduate students. For more information, 645-7700, ext. 0.

### Cognitive Science Colloquium

Modeling Retrieval in Sequence Production. Peter Pfordresher, Dept. of Psychology. 280 Park. 2 p.m. Free.

### International Student and Scholar Services Workshop

B-1, J-1, H-1B, TN: What Difference Does It Make? 31 Capen. 3:30-5 p.m.

### Organic Chemistry and Chemical Biology Seminar Series

Aromatase and Estrogen Biosynthesis: A View From the Real Structure. Debashis Ghosh, Hauptman-Woodward Medical Research Institute. 220 Natural Sciences. 4 p.m. Free.

### David Gray Fellow Lecture

Poeta y Loco, de Todos Tenemos un Poco: William Carlos Williams and Latina/o Cultural Politics. Edith Morris Vasquez, Pitzer College. 420 Capen. 4 p.m. Free.

### Architecture and Planning Lecture Series

Martell Lecture. Thom Mayne, Morphosis. 301 Crosby. 5:30 p.m. Free.

## Thursday

# 20

### Teaching and Learning Center Workshop

EndNote for Scientists. 212 Capen. 9-10:30 a.m. Free; registration for faculty, staff and students. For more information, 645-7700, ext. 0.

### Seminar

Asher Chanan-Khan, Roswell Park Cancer Institute. 201 Natural Sciences. 4 p.m. Free.

### Biological Sciences Seminar

Sex and the Single Worm: Regulation of Behavior by Neural Sex in C. Elegans. Doug Portman, Univ. of Rochester. 215 Natural Sciences. 4 p.m. Free.



### Friday, March 7, noon

#### CONCERT

Hear a live mix of roots rock, folk, country and more on WBFO XPoNential HD-2 or at [wbfo.org](http://wbfo.org). Featured artist: Ryan Bingham.

### Saturday, March 8, 11 a.m. to 4 p.m.

BLUES, with Jim Santella  
Featured artist: Robert Nighthawk.

### Saturday, March 15, 8 p.m.

THISTLE & SHAMROCK, with the Thistle & Shamrock  
Fiona Ritchie and Bill Raffel  
Contemporary Celtic music that is striving to preserve distinct regional voices.

