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## [Dining Green](#)



July Sanders and Shannon Reilly take a rare break from work at their eco-friendly restaurant in downtown Burlington. (Photo: Bill DiLillo)

The eco-friendly practices used by Magnolia's restaurant are the ones that co-owner July Sanders, a senior environmental studies major, has been using all her life. The transfer student from Los Angeles applies what she's learned in operating Burlington's hottest new eatery, which also happens to be her senior thesis.

[FULL STORY ►](#)

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### [Clean Bus, Clean Air](#)

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**Trustees Report** During their Feb. 8-10 meetings, trustees weighed the ramifications of a proposed six percent tuition hike, learned more about the planning of a possible new plant sciences building and mulled options for funding 25 key construction and maintenance projects.

### THE WEEK IN VIEW

*February 25, 3 p.m.*  
Gallery Talk: Burlington and Winooski. Fleming Museum.

*February 26, 4 p.m.*  
Lecture: "The End of Education: Globalization and Academic Freedom" with Cary Nelson, professor of English, University of Illinois. Memorial Lounge, Waterman.

*February 28, 3 p.m.*  
Lecture: "Bridging the Gap between the Environmental and Social Justice Movements" with Van Jones, founder of the Ella Baker Center for Human Rights in Oakland. Campus Center Theater, Billings.

*February 28, 3:30 p.m.*  
Lecture: "HIV: The Plague of the 21st Century" with Charles Carpenter, professor of medicine and director of The Lifespan/Tufts/Brown Center for AIDS Research at Brown University Medical School. Carpenter Auditorium, Given Building.

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## Dining Green

By Jon Reidel

*Article published February 21, 2007*

July Sanders and Shannon Reilly take a rare break from work at their eco-friendly restaurant in downtown Burlington. (Photo: Bill DiLillo)

The eco-friendly practices used by Magnolia's restaurant are the ones that co-owner July Sanders, a senior environmental studies major, has been using all her life. The transfer student from Los Angeles applies what she's learned in operating Burlington's hottest new eatery, which

also happens to be her senior thesis.

Sanders and her partner, Shannon Reilly, a local chef of 10 years, had long wanted to start a local restaurant using primarily organic food from local growers and as many environmentally sound practices as possible. In fact, they have set a goal to become the area's 'greenest' restaurant. With finances being the main obstacle, the relatively inexpensive opportunity to lease a space at One Lawson Lane on the corner of College and St. Paul Street came in December of 2006, and they grabbed it.

Seven weeks after opening, Magnolia's is serving more than 500 people on the weekend and drawing steady lunch crowds during the week. Sanders says she and Reilly have managed to strike a balance between attracting people who really care about frequenting businesses that use green practices and those who just want a great meal at a reasonable price.

"It's more expensive to be eco-friendly, but not as much as you'd think," says Sanders, who transferred to UVM two years ago. "We do the best we can. We've had a lot of repeat customers who say they love the food, but not always because it's healthier. Our goal was to be eco-friendly *and* put out the best food. You can do something because you think advertising it will help your business or you can do it because you believe in it. This is what we lived before we opened the restaurant."

### How green are you?

There's a hint of contempt in Sander's voice when talking about



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businesses that claim to be green. In her eyes, someone who makes that claim should be scrutinizing every aspect of the business to see if it could be done in a more environmentally conscious way. Things like recycling and composting are givens. Restrooms are stocked with Seventh Generation toilet paper made from 100 percent recycled paper. Office supplies come from Green Earth Office Supply and include customer bills and napkins on recyclable paper and pens made from corn starch. The list extends to using biodegradable cleaning chemicals that are free of VOC's (volatile organic compounds) and toxic chemicals to ordering forks and spoons for to-go orders that are made of potatoes (non-GMO of course).

Taking it a step further, Sanders set a goal to become the state's first certified member of the Green Restaurant Association, a national, non-profit organization that provides ways for all sectors of the restaurant industry to become more environmentally sustainable. Magnolia's has finished three of the four major requirements for certification: switching to compact florescent lights (95-watts to 23); switching the dishwasher sprayer valve from a four-gallon per minute unit to 1.2 (a 75 percent savings); and changing restroom faucets from one-and-a-half gallons per minute to one-half. They are in the process of replacing toilets that use four gallons per flush to ones that use one gallon.

#### **No (good) food, no business**

Although the idea to start a restaurant was hatched before Sanders transferred to UVM, she says the interdisciplinary nature of the environmental studies program was instrumental in exposing her to larger environmental issues such as energy policy, which helped her make smaller decisions about her business. "I wish I enrolled in the program earlier," she says. "I learned a lot and felt totally at home the first time I walked in the door. They wanted me to specialize more, but I got a lot of ideas from taking a wide range of courses."

Starting with the food, making sure it was organic and as local as possible, was an obvious one. Sanders, who grew up in a family that practiced conservation, and Reilly contacted farms in the Burlington Interville and plan to use more local food in the spring and summer. "We'll run specials depending on the vegetables and fruits that are available at the time. We plan to make jam in-house during the high berry season."

Sanders and Reilly knew from the start that without good food, it wouldn't matter how environmentally conscious they were. The current menu offers breakfast items served all day including eggs benedict, waffles, French toast, pancakes, organic salmon, sesame tofu scram, oatmeal, huevos can Diablo and the Vermont Omelet with maple sausage, cheddar cheese and apples. Lunch offers soups and salads, including a mango shrimp salad, and sandwiches. The garbanzo burger and the tarragon chicken are also popular. The coffee is Mexican organic fair trade brewed in Winooski and the maple syrup is from Lyndonville. Roughly 20 wood tables, placed throughout the brick and stone interior, were crafted by a local carpenter in Lyndonville.

"We want to raise the bar around Burlington so that other businesses can see how eco-friendly you can be," says Sanders. "Pretty soon people will have higher expectations and start asking if places are green certified. We're planning on putting out literature so people can learn more about it. We really want to have an impact on other restaurants. It's a major part of why we opened this place."

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UVM HOMEPAGE

## Clean Bus, Clean Air

By Joshua Brown

Article published February 21, 2007



UVM bus driver Bob Comeau had 78 students aboard the first regular service trip for two new compressed natural gas busses now in operation on campus. (Photo: Sally McCay)

A sleek new bus eases around the snowbank and into its stop at the University of Vermont's Royall Tyler Theater. Every 21 minutes, this Redstone Route shuttle stops here to pick up students on its loop around campus. But unlike buses in most cities around the world, this is not a

noisy vehicle spewing a black cloud of diesel smoke.

It sounds quiet and there is no smell from the tailpipe. Its secret? The bus runs on compressed natural gas, one of two CNG vehicles purchased by the university for its Campus Area Transportation System and put into regular service, Tuesday, Feb. 20.

The natural gas fleet will grow to six vehicles by fall 2008, the product of a partnership between UVM, the City of Burlington, Vermont Gas Systems Inc., and the Federal Transit Administration to improve air quality and develop Vermont's first "fast-fill" natural gas refueling station.

Sen. Patrick Leahy provided key leadership on the project, securing a \$2.4 million appropriation through the federal Clean Cities Program.

It's an investment in public health. Motor vehicles are the largest source of toxic and cancer-causing air pollutants in Vermont. "Particulate pollution on these CNG buses should be about 100 times lower than what you get from typical buses," says UVM engineering professor Britt Holmen, an expert on vehicle emissions.

And, compared to petroleum diesel, compressed natural gas emits about 50 percent fewer nitrogen oxides (sometimes called "NOx"), a major contributor to smog, greenhouse gas formation and, like particulate pollution, a cause of respiratory health problems. As an added benefit, natural gas engines reduce noise pollution; they are about 15 decibels



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lower than diesel.

### **Maiden voyage**

Tom Abdelnour '10 is looking forward to the ride. "This will be my maiden voyage on one of these buses," he says, standing in the cold outside the theatre as he waits with a few other would-be passengers. "I'm taking a ridiculous round trip to my dorm. It would be faster to walk, but at least the bus is powered by clean natural gas."

The new CNG refueling station at the city's department of public works will allow each bus to fill its rooftop tanks in just a few minutes. After the university's fleet has been serviced, excess capacity in the system can be used in new, heavy-duty natural gas vehicles the city plans to put into service, such as street sweepers and recycling trucks.

Although the city has been running a few vans on natural gas for several years, they take hours to refill from a low-pressure tank; the new fueling station is suited to rapid refill of large vehicles and is the first of its kind in Vermont.

Supplementing the funds secured by Leahy are matching funds from UVM, the city and other partners, which "bring the total project costs to about \$3 million," says Dan Bradley, transportation planner for the city.

The new CNG buses are part of a long-term commitment by UVM to use environmentally friendly alternative fuels in its campus area transportation (CATS) fleet. For several years, the university has been running its buses on B20, a mix of 20 percent biodiesel, a cleaner, vegetable-based fuel, and 80 percent petroleum diesel.

"Our use of biodiesel was pioneering when very few other universities were making this step to a cleaner fuel. Now CNG is the next logical step in UVM's commitment to reducing emissions. It will be a good complement to the biodiesel that will continue to fuel some of our smaller buses," says Gioia Thompson, UVM's environmental coordinator.

And all new buses, diesel and CNG, are built with cleaner engines than what was available a decade ago. "If you go from a 1998 model year to a 2007, you've already improved by an order of magnitude the emissions standards for that vehicle," Holmen said.

Natural gas vehicles date back at least into the 1930s, and today natural gas is well established as safe transportation fuel, having been on the road in California, Colorado, and many other states and foreign countries for years. "There are now hybrid electric engines available," says Bradley, "that are also a good alternative to diesel, but they are not as well-tested and there are fewer options than with natural gas."

"CNG is a mature fuel," he said, noting that natural gas has an established distribution network, is less expensive than diesel, and that numerous types of heavy equipment, like the new trucks and vehicles the

city will use, are available with natural gas engines.

### Local loyalty

In addition to their cleaner, safer emissions, CNG buses offer other advantages.

The new buses help reduce dependence on imported oil; more than 99 percent of natural gas consumed in the United States is produced in North America, according to the California Energy Commission.

The building of compressed gas delivery systems - like the new tanks and equipment at the city's public works building - could support clean-burning hydrogen vehicles in the future. In the near term, blends of hydrogen and natural gas could be available, and as the technological problems that hydrogen now faces are overcome, the CNG equipment could be converted for use in a straight hydrogen delivery system.

The new vehicles and fueling station also fuel the regional economy. The 41-foot buses — air-conditioned, handicapped accessible, and with 20 percent more seating capacity than UVM's current buses — are built by the Orion bus company in Oriskany, N.Y. The new fueling station at 645 Pine Street was built by Smalley Contractors of Rutland.

For both the university and the city, the long-term goal is to run cost-effective vehicles that produce zero emissions fueled from renewable energy sources, such as solar and wind power. But that appears to be years away and, in the meantime, ground-level air pollution — with buses and other heavy diesel vehicles being major culprits — is a leading cause of respiratory and other health problems. CNG buses reduce this problem today.

"Natural gas is a bridge technology," says Katherine Decarreau, director of UVM's transportation and parking services. "They're a great choice for now, and when they need to be replaced, we'll have a clearer sense of what the next best technology will be."

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UVM HOMEPAGE

## Trustees Mull Tuition Hike, Capital Projects

By The View Staff

*Article published February 13, 2007*

During their Feb. 8-10 meetings, trustees weighed the ramifications of a proposed six percent tuition hike, learned more about the planning of a possible new plant sciences building and mulled options for funding 25 key construction and maintenance projects.

Highlights from the meetings follow. The board next meets in May.

### Raising tuition

Though trustees will not vote on tuition rates for academic year 2007-08 until the May meetings, the wisdom of a proposed six percent hike and the ramifications it might have on enrollment management and public perception in Vermont was a major focus throughout the board's February meeting last week.

Reporting on a January meeting of the board's Budget, Finance and Investment Committee, Trustee Deborah McAneny expressed concern that UVM might have "under-invested" with a relatively low rise in tuition in recent years. The good news is that strategy has made UVM more competitive in cost; the bad news, many of UVM's competitors now have greater funds to invest in enhancing their campuses and programs.

With the exception of schools in the SUNY system, UVM has consistently raised tuition at a lower rate than peers in recent years. No longer the most expensive public university in the country, UVM now trails Penn State and Miami of Ohio in tuition rates for state residents. For out-of-state students, UVM ranks behind the University of Michigan in cost, and the price gap between UVM and many of its other public peers has closed significantly. In addition, UVM is increasingly seen as a bargain compared to many private competitors.

Because UVM puts major funding directly into student financial aid, a six percent increase in tuition is not necessarily felt as a six percent increase in costs to all students or a six percent jump in income for the institution, Provost John Hughes noted. Since 30 percent of the increase will go into financial aid that is returned directly to students in grants, it in essence amounts to a 4.2 percent increase in tuition. Hughes also noted that the current Higher Education Price Index, a more relevant measure for universities than the familiar Consumer Price Index, stands at five percent.

### Funding the Vision

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Members of the Committee on Budget, Finance and Investment were presented with various financial models that would allow the university to fund all or portions of its 10-year Vision. Trustees were presented with the approximately 25 projects that fall under the Vision. Without exceeding the board's current spending cap, a self-imposed five percent debt-service ratio, the university could borrow \$236 million, which would fund 61 percent of those projects. Discussion focused on whether to expand the current debt ratio to enable the university to fund more of the projects. Consideration of the issue will continue at the board's May meeting.

Trustee Susan Hudson-Wilson asked that a specific project criteria be established so she and other trustees could prioritize projects and make informed decisions when selecting individual requests. The administration will provide a more detailed breakdown of why it placed certain projects higher on the list of 25 than others.

#### **Endowment hits \$300 million**

Trustees were informed that the university's endowment surpassed the \$300 million mark for the first time and continues to grow, due in part to strong fundraising efforts and prudent investments. The figure, which puts UVM among the top 165 institutions in the nation, is particularly encouraging considering its endowment in 1999 was just over \$200 million, ranking it 232nd out of 765 institutions. Trustee Robert Cioffi said the university has made some allocation management decisions and now looks at investments on a longer time horizon than it did in the past. Cioffi told committee members that some investments could be moved to a minority-owned firm that is willing to customize investments so they are tobacco- and Sudan-free. Trustee John Snow is looking further into the possibility of using this firm and will bring information to the board's May meeting.

#### **Increasing faculty diversity**

"Efforts to diversify the faculty continue to be among the least successful elements of campus commitments to diversity," Kathryn Friedman, director of affirmative action/equal opportunity, told trustees. Hiring data from the past five years indicate that UVM has hired 80 percent white candidates and 20 percent ALANA candidates during the period. On gender, the university is doing better, Friedman said. Sixty percent of the hires were male, 40 percent were female, though half of all new doctorates are now earned by women.

Recent UVM faculty hiring trends indicate UVM could improve significantly in the percentage of African American and Native American faculty on campus. Friedman said success in bringing a more diverse faculty to campus will require increased effort on the front-end of job searches. "Affirmative action is active recruiting, not passive recruiting. When you get to the short list, it is going to be a diverse group," Friedman said.

Provost John Hughes affirmed the administration's commitment to building diversity during an era when UVM is in the midst of hiring 81 new

faculty.

### **Building plant sciences**

Architects from the Cambridge, Mass. firm Ellenzweig Associates presented schematics of the proposed new Plant Sciences Building. The three-story brick structure would be built between the water tower and Main Street with a connection to the current greenhouses.

The space would bring together two closely related College of Agriculture and Life Sciences departments — plant biology and plant and soil science. Ellenzweig Associates has sought to create a design with flexible laboratory space that will facilitate interdisciplinary work. In keeping with UVM's green building policy, they will seek LEED certification on the project.

Trustees will likely consider the project for approval at the May or possibly September meetings. Pending the go-ahead, Robert Vaughan, director of capital planning and management, said construction could begin before the end of the calendar year; he anticipates an 18-month construction process.

### **Class of 2011**

Provost John Hughes updated trustees on the current enrollment management status. The deadline for applications has passed, and admissions staff work on selecting and bringing in next fall's class of first-year students. Among the stats reported by Hughes: Applications stand at 18,679, up five percent over last year's record total; ALANA applications have slipped, down five percent from last year; and by measure of class rank and SAT scores, the academic quality of UVM applicants continues to rise.

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UVM HOMEPAGE

## UVM to Junk E-Mailers: Keep Your Viagra

By Kevin Foley

*Article published February 12, 2007*

Bad news for Mrs. Gen. Sani Abacha: UVM is getting serious (again) about controlling "spam," the unwanted e-mail solicitations and non sequiturs that now make up more than 90 percent of incoming e-mail to the university.

A series of technical changes that began Feb. 12 should reduce the amount of unwanted e-mail to university accounts by half. Other forms of automatic filtering planned for phase-in this month will reduce the tide even more dramatically.

Here's what is in the works: Enterprise Technology Services' servers already flag and rank suspected spam, labeling dodgy messages with subject lines beginning "SPAM?: # # # # #." (The more "#s," the more suspect the message.) Starting this week, e-mail servers will reject all incoming e-mail with a 99 percent or higher spam probability ranking; these constitute more than half of all e-mail received.

ETS has begun purging on-server spam folders more frequently. While the group had previously run the purge process once per month, removing messages older than four months from the spam folders, it will now purge twice per month, and delete messages older than 1 month. The first one-month retention purge on Feb. 15 removed nearly 32 million messages.

On Feb. 19, ETS enabled spam control at the 70 percent level for all existing accounts that don't already have spam filtering turned on. This action will not apply to accounts where email is being automatically forwarded to another uvm.edu address.

This change will reduce unwanted e-mail dramatically: The feature has been available at UVM for nearly four years and is well-tested and effective, albeit little known. Accepting automated server-level spam control is not mandatory; those who wish to opt out (or choose different settings) should visit [www.uvm.edu/account](http://www.uvm.edu/account) and click on the link "Manage your Spam and Virus settings" after the Feb. 19 changeover. New UVM e-mail addresses began automatically enabling spam control on Feb. 5.

More information: ['My spam has spam!' and other junk mail woes](#)



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UVM HOMEPAGE

## Grant to Augment UVM Infectious Disease Research

By Jennifer Nachbur

Article published February 12, 2007

An \$11.4 million grant will allow UVM to conduct five new studies on Centers for Disease Control-designated "priority pathogens" — infectious agents that impact the health of millions of people worldwide. The funding will launch the Vermont Center for Immunology and Infectious Diseases — a nationally competitive Center of Biomedical Research Excellence in the rapidly growing field of immunology and infectious diseases. This award marks the third COBRE grant UVM has received from the National Center for Research Resources at the National Institutes of Health since 2000.

Directed by Dr. Ralph Budd, professor of medicine and director of UVM's immunobiology program, the COBRE grant builds on UVM's well-established expertise in immune response to infection and medically significant infectious agents such as bacteria, viruses and parasites. The COBRE program fosters collaborations between senior faculty mentors and five promising junior faculty, provides training for graduate students and will support three new faculty in the areas of immunology, infectious diseases, and microbial pathogenesis respectively.

An interdisciplinary group of faculty from six departments and three colleges at UVM will participate in the COBRE. The grant also supports technology expansion in two of UVM's core laboratory facilities — proteomics, which allows for high-level protein analysis, and microarray, which allows researchers to look at as many as 15,000 genes simultaneously and zero in on genes critical to the disease process. Gary Ward, associate professor of microbiology and molecular genetics, is co-director of the grant.

Topics included in the COBRE's five research projects are: *Toxoplasma gondii*, an organism that infects approximately one-third of the U.S. population and is the leading cause of the country's neurological birth defects, affecting about 3,000 babies each year; a type of immune cell called the NKT or "natural killer" T-cell, which plays an important role in a variety of immune responses, including infectious disease, anti-tumor responses, autoimmunity and inflammation; the prevention and treatment of infection due to a water-borne parasite called *Cryptosporidium*, which was responsible for a 1993 outbreak in Milwaukee that infected more than 400,000 people; *Entamoeba histolytica*, a parasite that causes an invasive intestinal infection and is the third leading cause of parasitic death; and *Bacillus anthracis*, the

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organism that causes anthrax infection.

"This is a unique opportunity to foster a program of science in a culture of mentoring," Budd says. "It draws upon the highly collaborative spirit of UVM's talented faculty to develop a truly interdisciplinary study of the immune response to infectious agents. The center will not only provide a nurturing atmosphere for students and faculty, it also will benefit the health of Vermonters, as well as provide an economic engine for skilled jobs."

UVM's two other COBRE projects have received continuation grants in the past year and a half. The Center for Neuroscience Excellence program recently received a continuation grant of \$11.1 million and the Translational Research in Lung Biology and Disease program has received a continuation grant funding totaling \$11.1 million since 2005.

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UVM HOMEPAGE

## UVM to Lead Effort to Combat Food-Borne Disease

By Jennifer Nachbur

Article published February 14, 2007

The College of Medicine has been chosen as the single participating academic medical center in the nation to collaborate with the Navy Medical Research Center and Denmark-based ACE BioSciences in the development and evaluation of a new vaccine against one of the most common food-borne bacteria, *Campylobacter*.

The first study in this multi-part collaboration is a new clinical trial designed to define the illness caused by this bacterium in healthy volunteers. Information from this work will be used to confirm the effectiveness of a new *Campylobacter* vaccine.

This *Campylobacter* research initiative is timely in the face of recent food-borne outbreaks due to similar bacteria, such as *E. coli*.

*Campylobacter* infections account for more than two million cases of food-borne illness and up to 100 deaths in the United States each year, as well as \$1.5 to \$1.8 billion in lost productivity. Infections from *Campylobacter*, usually occurring after consumption of inadequately cooked chicken, are the most common cause of food-borne disease in the United States. This species of bacteria also has a high degree of antibiotic resistance, increasing the importance of vaccine development. In the United States, infections with *Campylobacter* are most common in young children, travelers and military personnel, but infection is also extremely common in less developed nations.

"Our team at UVM has been fortunate to pair our clinical and laboratory expertise with the NMRC researchers' extensive experience with the *Campylobacter* bacteria," said Dr. Beth Kirkpatrick, infectious disease specialist and associate professor of medicine at UVM, who is the principal investigator on the *Campylobacter* studies. "We are looking forward to this continued collaboration. We also are excited to have the opportunity to work with talented professionals at the National Institutes of Health-funded General Clinical Research Center and ACE BioSciences to design and perform this important work."

UVM will enroll between 48 and 56 participants in the first *Campylobacter* trial, which involves a screening period and a carefully monitored nine-day inpatient stay. Men and women between the ages of 18 and 50 in good health are eligible to volunteer. Participants will be financially compensated. More information: Cathy Larsson, UVM study coordinator at 656-0013.

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In addition to Kirkpatrick, other faculty members involved in this trial include Dr. Caroline Lyon, instructor in medicine and 2002 UVM College of Medicine alumna; Dr. Christopher Huston, assistant professor of medicine; and Dr. Ann Finger, family medicine clinician at Fletcher Allen Health Care.

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UVM HOMEPAGE

## Library Launches Instant Messaging Program

By Amanda Waite

*Article published February 21, 2007*

The University Libraries has launched its second pilot project chat program, which allows UVM faculty, staff and students to get help from reference librarians via instant messaging.

But don't add "Librarian" to your buddy list. Instead of requiring patrons to create an account with any particular chat service, the new program uses a free service called Meebo, which allows the library to provide [a chat window widget on its website](#).

While instant messaging with patrons isn't new to Bailey/Howe librarians — the first pilot project received positive feedback but wasn't as streamlined as they wanted it to be — the latest version of the service is more user-friendly.

"All (patrons) have to do is go to the page and start asking questions," says Daisy Benson, library assistant professor, who was involved in the first pilot project as well as the launching of the second with fellow library assistant professor Elizabeth Hassemer. "They don't have to create an account and give information to anyone."

Benson is hopeful that the tool will provide one more way for students to get help from a librarian. "Looking around the library," Benson says as she fields a chat request for a copy of a UVM student's thesis, "everyone is chatting. They're writing papers, and they're chatting."

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UVM HOMEPAGE

## Prestigious Conference and Summer School Move to UVM

By Communications Staff

*Article published February 21, 2007*

The University of Vermont College of Engineering and Mathematical Sciences will host two advanced educational opportunities this summer. Wolfram's A New Kind of Science (NKS) Summer School 2007 will be held June 25-July 13, and Wolfram's NKS Conference will be held July 13-15.

Both educational initiatives, previously held at Brown University, will provide opportunities to experience original research at the frontiers of science with Stephen Wolfram, author of Mathematica, a technical computing software used by nearly two million researchers for its seamless integration of numeric and symbolic computational engines, graphics systems, program languages, document systems, and advanced connectivity to other applications.

"NKS has opened the doors to dramatic new directions in research, and the UVM Complex Systems center highlights the importance of these emerging advances," said Wolfram. "We're excited to see such rapid growth in the field and look forward to working with UVM to create new research possibilities in the future."

The three-week Wolfram's NKS Summer School consists of lectures and individual research projects relating to core NKS issues. Students will work with project mentors to create computer experiments programmed in Mathematica, and individual presentations will be made at the conclusion of the school. Participants will include graduate students, undergraduates, post-doctoral staff scientists, as well as professors, teachers, engineers, artists, and educators, and a few exceptional high school students. Approximately 40 students with diverse ranges of scientific backgrounds will learn how to apply NKS to their individual fields of interest. Participants are expected to have read Wolfram's book, *A New Kind of Science* in some detail. Additionally, because all projects will be done using Mathematica, learning its basics before the start of the program is highly recommended.

The NKS Summer School is cross listed as a three-credit UVM course for either Complex Systems (CSYS) or Mathematics (MATH), with enrollment through the UVM Office of Continuing Education. Only students already accepted for admission to the NKS summer school will be permitted to enroll in this course for UVM credit. [Apply for admission to the NKS Summer School visit.](#)



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The NKS 2007 Wolfram Science Conference is intended for academic, industrial, and government researchers, technology strategists, technology developers and engineers, artists and designers, educators, and undergraduate and graduate students. The conference will offer a series of lectures covering key aspects of the basic science and applications of Wolfram's *A New Kind of Science* as well as provide a basic introduction to Mathematica as a tool for NKS research. Hands-on explorations of the computational universe, extended question/answer periods with Wolfram, live NKS computer experiments, tutorials, poster sessions, art displays, and a five year anniversary reunion for NKS summer school alumni will provide ample opportunities for engaged discussions. [Register for the conference online.](#)

"It's an honor to host both the Wolfram NKS Summer School and the Wolfram NKS Conference," says Domenico Grasso, dean of the College of Engineering and Mathematical Sciences. "Our new [UVM Complex Systems Center](#) focuses on the need for technological solutions that can address the complexities of our world."

Wolfram founded The Wolfram Group of four companies: Wolfram Research, Inc. and Wolfram Media, Inc. in the United States, Wolfram Research Europe Ltd. in the United Kingdom, and Wolfram Research Asia Ltd. in Japan. Wolfram Research, Inc., is a leading technical software company that funds long-term research and development projects to port Mathematica, its flagship product, to a wide selection of operating systems.

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UVM HOMEPAGE

## Fleming Show Explores Past and Future of Burlington, Winooski

By The View Staff

*Article published February 12, 2007*

It is sometimes hard to imagine the way the cities we inhabit looked in decades past: towering elm trees providing a majestic canopy over Burlington's and Winooski's streets and parks; Burlington's industrial waterfront storing lumber, oil and rail freight; street cars crisscrossing through town; a pontoon bridge connecting Burlington and Winooski. It is also a challenge to envision alternative ways that these two cities might have evolved: Imagine a dome over downtown Winooski or a restaurant nestled under the Winooski bridge; an elevated highway along Burlington's waterfront; or an underground mall along Church Street, all plans that were proposed but never realized.

The Robert Hull Fleming Museum is pleased to bring together, for the first time, historical and contemporary photographs, architectural and engineering drawings, models, and film and video clips that tell the recent story of how these two adjoined cities have come to be the places we know today. The exhibition, "Burlington and Winooski: The Evolution of our Built Environment," opens Thursday, Feb. 22 and examines the forces that have shaped Burlington and Winooski since 1920 and invites commentary on the future.

Visitors will learn of the impact of both the urban renewal and historic preservation movements on the downtowns; how changes in transportation have affected the cities; the ways in which natural forces have reshaped urban landscapes; and the evolution of Burlington's waterfront from an industrial salvage yard to a recreational destination. The exhibition also will provide access to UVM's Landscape Change Program website, where specific Vermont locations can be entered to explore the changes that the years have brought. A Web page, comment book and extensive public programming will invite visitors to share their thoughts for the future.

A special reception at 5:30 p.m. on Thursday, Feb. 22 will celebrate the exhibition's opening. The show will run through June 17.

Information: [Burlington and Winooski: The Evolution of our Built Environment](#)



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UVM HOMEPAGE

## United Academics Lecture to Discuss Academic Freedom

By The View Staff

Article published February 21, 2007

United Academics, the faculty union at UVM, will bring American Association of University Professors President Cary Nelson to campus on Monday, Feb. 26 at 4 p.m in Memorial Lounge, Waterman Building. Nelson will lecture on "The End of Education: Globalization and Academic Freedom." Light refreshments will be served.

Nelson will also give a lunchtime scholarly talk called "When Death Rhymed: Poem Cards and Poetry Panics of the Great Wars." This event is co-sponsored by the Departments of English, History, and Romance Languages, and by the Humanities Center. It takes place from 12 to 1:15 p.m. in the John Dewey Lounge. Sandwiches and salads will be provided.

Both events are free and open to the public.

Cary Nelson is Jubilee Professor of Liberal Arts and Sciences and professor of English at the University of Illinois, one of the foremost scholars of modern social poetry and president of the American Association of University Professors, one of UA's national affiliates.

Nelson is known not only as a blunt and witty commentator on higher education but also as an activist working hard to reform it. With the appearance of *Manifesto of a Tenured Radical* in 1997, Nelson became the national exemplar of the committed scholar who sees his own career connected to the health of the academic community as a whole, including graduate students, part-time employees and campus workers. He has criticized both university administrators and leadership of the Modern Languages Association (to whom he recommends his roguishly titled "Twelve-Step Program for Academia") for their short-sighted policies.

Nelson is the author and editor of numerous scholarly works as well as numerous books and essays about the state of higher education, including *Higher Education Under Fire: Politics, Economics, and the Crisis of the Humanities*, *Will Teach for Food: Academic Labor in Crisis*, *Academic Keywords: A Devil's Dictionary for Higher Education* and *Office Hours: Activism and Change in the Academy*.



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## HIV Researcher to Deliver James Marsh Lecture

By The View Staff

Article published February 21, 2007

Charles Carpenter, professor of medicine and director of The Lifespan/Tufts/Brown Center for AIDS Research at Brown University Medical School, will speak on "HIV: The Plague of the 21st Century" on Wednesday, Feb. 28 in Carpenter Auditorium, Given Building at 3:30 p.m.

Carpenter, a James Marsh Professor-at-Large and a recipient of the first John E. Fogarty International Health Recognition Award, is currently the principal investigator of the CDC-supported SUN study of the natural history of HIV/AIDS in the era of effective antiretroviral therapy.

He has served on the Institute of Medicine committee evaluating the President's Emergency Plan for AIDS Relief and is also the current chairman of the International AIDS Society-USA panel on antiretroviral therapy.

Information: 656-5822

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## NOTABLES

February 21, 2007

### Publications and Presentations

**Paul Besaw**, assistant professor of dance, presented a new duet choreographed for and performed by UVM dance students **Yaicha Bryan** and **Julia Ricklis** at the American College Dance Festival Association's New England Regional Conference at Williams College. The dance, entitled "Through," used the music of J.S. Bach and Andrea Parker. Besaw also presented a master class in modern dance technique for regional dance students, as well as mentored a UVM student for the presentation of the dance "Pressed," choreographed by junior Yaicha Bryan and danced by UVM students in an informal concert.

**Chris Koliba**, assistant professor in Community Development and Applied Economics, had an article published in the Jan. 2007 edition of *Administration and Society* titled "Inquiry as Intervention: Employing Action Research to Surface Intersubjective Theories-in-Use and Support an Organization's Capacity to Learn." The article recounts the attempts of social science researchers to employ an action research process to promote and support organizational learning within a public school setting. Addressing concerns with regard to the methodological challenges of translating individual perceptions into organizational themes or problems, the authors discuss the use of intersubjectively constructed accounts to support organizational learning.

### Awards and Honors

**Emily J. Stebbins**, a graduate student in the Department of Community Development and Applied Economics, received UVM's "University Transportation Center Student of the Year" award for 2006, presented by the U.S. Department of Transportation in Washington, D.C. on Jan. 21, 2007.

February 14, 2007

### Publications and Presentations

**Frank Manchel**, professor emeritus of English and film studies, has published a new book, *Every Step a Struggle: Interviews with Seven Who Shaped the African-American Image in Movies*. The book includes conversations with Lorenzo Tucker, Lillian Gish, King Vidor, Clarence Muse, Woody Strode, Charles Gordone and Frederick Douglass O'Neal. The interviews, combined with pictures, documentation and extensive