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### Leaving Carrigan



Paul Kinstedt, professor of nutrition and food sciences, enjoys the new Kerrigan wing of the Marsh Life Sciences Building with students Elissa Balentine (L) and Nicole Losambe. (Photo: Bill DiLillo)

With apologies to the internationally known circle of UVM food scientists who have plied their research in the Carrigan Dairy Science Building, the 57-year-old structure will be remembered by many alumni and locals for its ice cream.

FULL STORY ▶

### CURRENT NEWS BRIEFS AND EVENTS

Campaign Reaches 87 Percent of Fundraising Goal

Aiken Lecture to Focus on Vermont Landscape

Dates Set For Open Forums For Provost Search Finalists

Practice Mindfulness with Group Meditation

Anti-racism Writer and Activist to Speak on Campus

Division of Student & Campus Life **Announces Two Additions** 

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February 8, 2006

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### THE WEEK IN VIEW

of Trustees: committee of the whole. Waterman, Memorial Lounge. Information: 656-7898 or Trustees

Feb. 10, 8 p.m. Concert: The Lane Series presents Scottish percussionist Evelyn Glennie. Flynn Center for the Performing Arts. Information: 656-4455 or Lane Series

Feb. 13, 4 p.m. Forum: Virginia Sapiro, interim provost at the University of Wisconsin, will give a presentaion and field questions as a candidate for the provost and senior vice president position. Billings, North Lounge. Information: Provost

Feb. 13, 3 p.m. Lecture: The College of Medicine presents "Winooski to Wall Street: Building a Succesful Biotech Company" with Mark Brann, founder, president and chief scientific officer. Acadia Pharmaceuticals. Case Method Room, **Medical Education** Center. Information: 656-4014.

Feb. 10, 8 a.m. Board

Secrets of a

Pitcher Plant While

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Leaving Carrigan

By Thomas Weaver Article published Feb 07, 2006



Paul Kinstedt, professor of nutrition and food sciences, enjoys the new Kerrigan wing of the Marsh Life Sciences Building with students Elissa Balentine (L) and Nicole Losambe. (Photo: Bill DiLillo)

With apologies to the internationally known circle of UVM food scientists who have plied their research in the Carrigan Dairy Science Building, the 57year-old structure will be remembered by many alumni and locals not for, say, unlocking the complexities of Listeria monocytogenes, but for serving up the simplicity of a banana split.

Carrigan, home to UVM's fabled Dairy Bar from 1950 to 1995, may have been a trove of icecream memories, but its

days as a facility worthy of cutting-edge food science research were long gone. When Jean Harvey-Berino, chair of Nutrition and Food Sciences, is asked whether the department's lab space in a newly built addition to the Marsh Life Sciences Building is an improvement, her expression suggests she has just heard the most self-evident question in the history of American higher education. Then she smiles and says, "Please."

Harvey-Berino and colleagues moved into the Marsh addition in early January, vacating the Carrigan Building, which is currently undergoing deconstruction and slated to be gone from the campus landscape by the end of the month. Gone on the surface, that is — with 75 percent of the building being recycled or reused, the concrete and brick of Carrigan will become the sub-base for the Davis Center. Gone, but not forgotten — six vintage stools from the Dairy Bar, sponsored by UVM donors, will be used in a second-floor dining area in the Davis Center, and a permanent display in the building will trace the history of agricultural study at UVM.

### **Sweet Memories**

When the new Dairy Science Building opened in 1949, it was a state-of-the-art facility for studying one of Vermont's signature agricultural products. Professor Emeritus Henry Atherton recalls, "It came on line at a critical time when the dairy industry was adjusting to the use of refrigerated bulk tanks and our research team responded by doing studies on cold tolerant bacteria, milk flavor and shelf life. There was a world of possibilities in dairy foods that needed to be studied then, just as there is a whole new world of dairy foods options to be examined today." Current faculty research such as Paul Kindstedt's work on cheese production issues, Cathy Donnelly on food safety, or Mingruo Guo on use of whey by-product, to name a few, have continued this tradition and will greatly benefit from the next generation of laboratory space.

The Dairy Bar, student-run under the auspices of the Animal Sciences Department for most of its existence, was started up in 1950 by Atherton, 25-years-old and armed with a fresh UVM master's degree. In the summer 1992 issue of *Vermont Quarterly Magazine*, Atherton remembered the early days. "It was a small operation, nothing fancy. We had seven or eight flavors of ice cream, cottage cheese, and later on, yogurt. We were no Howard Johnson's by

February 8, 2006

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any means." But could HoJos boast that the ice-cream food chain — pasture and UVM's Holstein herd — nearly rolled up to the back door?

In addition to Atherton, Dairy Bar pillars included ice-cream maker Leon Lockerby and Mary Dion, who for nearly 20 years was the face of the operation where the cones met the customers. In the 1992 *VQ*, one student of the era called Dion "the righteous ice-cream lady."

The production of UVM ice cream ended in 1992 with Lockerby's retirement, but another Carrigan claim to Vermont ice-cream lore would come later in the decade, when Ben and Jerry's used the test kitchens during a year when their own facilities were in transition.

#### Carrigan II

With the new Marsh addition, architect Wayne Walker of Burlington's John Anderson Studio strove to design a building that would feel open, interactive, educational, and inspire researchers' creativity. The glass façade offers clear views into the teaching and research labs, the glass itself patterned with designs that tell the story of food production in Vermont. The central entrance, where a staircase spirals around a column topped by a skylight, takes up the same theme through panels adorned with graphics that range from John Deere grain combines to Quarter Pounders with cheese, from frying pans to pyruvic acid to the food pyramid.

On a recent rainy Friday morning, Professor Paul Kindstedt was hard at work at his Mac, which displayed a graph of the "Effect of Packaging Tightness" on calcium crystal formation on the surface of cheddar cheese. It's a tough issue for the cheese industry, often resulting in product returns, and the sort of problem that Kindstedt has researched and found solutions to in his twenty years on the UVM faculty. The new labs in Marsh, Kindstedt says, open up the potential for new equipment and new directions in his work on this and other questions. "It's a considerable upgrade," he says, "a lot more user friendly."

Though they're in new and improved digs, Kindstedt and colleagues will continue to go to work in "Carrigan" for years to come. Pending final approval from UVM's Board of Trustees in February, the Marsh addition will be named the Joseph E. Carrigan Wing in honor of the 1914 alumnus whose service to the university included a decade as Extension director and 15 years as dean of the agriculture college.

Jeffrey Wakefield and Howard Lincoln contributed to this report.

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### Secrets of a Pitcher Plant

By Joshua Brown Article published Feb 07, 2006



Nick Gotelli, professor of biology, is one of four 2005-06 University Scholars honored by the Graduate College for their sustained excellence in research and scholarship. (Photo: Sally McCay)

"I'm a vegetarian who eats meat," declares an absurd character in a recent *New Yorker* cartoon. "And I'm vegetation that eats meat," the northern pitcher plant might reply.

While its leaves can't literally chew or speak, Nick Gotelli thinks this carnivorous plant has a lot to tell us, not only about its elegant tricks for capturing and digesting insects — but also about acid rain. The UVM professor of biology will explain why

in his University Scholar Lecture — "The Ecological Impacts of Nitrogen Deposition: Insights from the Carnivorous Pitcher Plant Sarracenia purpurea" — on Wednesday, Feb. 15 at 4 p.m. in Waterman's Memorial Lounge.

Gotelli is among the 2005-2006 University Scholars, who also include John Burke, professor of microbiology and molecular genetics; Carol Miller, professor of psychology; and Robyn Warhol, professor of English. The Graduate College annually honors four professors, nominated by their departments and selected by a panel of distinguished faculty, to recognize sustained excellence in research and scholarship.

### Life in the bog

"For tens of thousands of years, pitcher plants have lived in a low-nitrogen environment where they depended on prey—mostly ants and flies—for nutrients," Gotelli says. This environment is a bog, one of nature's most beautiful and inhospitable creations.

A typical bog forms on top of a geological "kettlehole": a pit, left behind by scouring glaciers, that over many years fills with rainwater. Because there is almost no flow in or out of a bog, its water is very low in oxygen and supplies few nutrients, including nitrogen. Still, a sheet of sphagnum moss slowly grows across the top of the hole, and, over millennia, fills it with peat. Living on top of this "bog mat," pitcher plants employ cup-shaped leaves to capture insects and falling rain that provide nutrients not available from a bog's acidic, saturated soils.

"In the past 50 years, because of the burning of fossil fuels, and especially because of synthetic fertilizers, we humans are now releasing all sorts of reactive nitrogen into the environment," Gotelli says. "Suddenly, these plants, because they are taking in rainwater, are absorbing excess nitrogen."

And what are the ecological consequences of this excess nitrogen, a key ingredient in acid rain? Gotelli's seminar will summarize ten years of research and experiments in bogs of Vermont and Massachusetts that help unravel this question. As nitrogen-hungry agriculture expands, it is expected that the amount of nitrogen pollution in the air will also rise. Gotelli and his key collaborator, Aaron Ellison from the Harvard Forest, have compelling evidence

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that this means a bleak forecast for pitcher plants.

"If we could maintain current rates of nitrogen deposition, or perhaps see a slight decline, pitcher plant populations would be in pretty good shape," says Gotelli, "but if we see modest increases, say on the order of one to two percent per year, which is likely, these populations look like they will be doomed to extinction."

Why? Because a glut of nitrogen from rain and snow makes a dangerously unbalanced pitcher plant diet. "When the plants receive natural prey items, they are, in addition to receiving nitrogen, also receiving phosphorous which the plants need," Gotelli says, "but the atmospheric deposition has no phosphorous in it, so it shifts the nitrogen/phosphorous ratio." And this shift makes the pitcher plant give up its pitcher. Instead of developing its characteristic tubular leaf, the plant changes morphology and forms a flat leaf that increases photosynthesis. The plant is also more likely to flower in the spring on its newfangled diet. These might seem like benefits, but the result is less survival in juvenile plants. In Gotelli's models, a century or two of this reduced survivorship draws a population line down to zero.

#### Questions about carbon

When excess nitrogen changes the physiology of an individual Sarracenia purpurea plant, it also affects a little-known community of animals. Swimming inside each pitcher, there's a world unto itself. Midges, flesh flies, an endemic pitcher plant mosquito, and hosts of other creatures form a complete food web that relies on incoming prey, trapped by downward-facing hairs at the mouth of the pitcher and drowned in the water below. "These aquatic invertebrates release nutrients that are taken up by the plant," Gotelli says. "It's a symbiosis." This tiny community has provided Gotelli with a model system for studying how shifting levels and ratios of nitrogen reverberate throughout a food web.

And these reverberations scale up from the individual plant to the bog ecosystem and even the entire planet. Gotelli's findings are part of a larger body of research suggesting that damaging feedback loops may develop: increased nitrogen deposition causes a plant species' demise, which lowers the whole bog's capacity to absorb excess nitrogen.

"As the nitrogen levels increase, it is possible for other kinds of plants, especially grasses, to begin growing in these habitats," Gotelli says. "If the sphagnum mat disappears and is replaced by grasses, pitcher plants could disappear much faster than our models project."

All of which has implications for global warming. "These peat bogs probably only constitute a couple percent of the total surface area of the planet, however they have locked up in them about 30% of terrestrial carbon," he says.

"As the climate warms up, as more nitrogen is deposited in these environments, how much of this carbon will be released into the atmosphere?" Gotelli wonders, since more atmospheric carbon means a stronger greenhouse effect. "This work has very important implications for policy and for how we deal with atmospheric pollution," he says, "but that's not what gets me up every morning to do my research. I'm more interested in the basic science."

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### A Call to Action

By Jon Reidel Article published Feb 08, 2006



John Edwards, former senator from North Carolina and vice presidential candidate, says America has a moral responsibility to end poverty. (Bill DiLillo)

There are images of people living in poverty that John Edwards, former senator from North Carolina and vice presidential candidate in 2004, says he can't get out of his mind. He witnessed many of them while on trips to some of the world's most impoverished areas like Calcutta, where children attend classes on blankets in streets near open sewers because they have no school.

But not all of the images that keep him up at night are from the

streets or deserts of some of the poorer countries of the world. Some of them, he told a near-capacity crowd on February 8 at Ira Allen Chapel, he saw on the streets on America.

"Having 37 million people living in poverty in this country is wrong," said Edwards. "We have a moral responsibility to do something about it. We saw the face of poverty right here in America during Hurricane Katrina. These people live on the edge every single day terrified that something bad is going to happen to them where they fall off the edge and into the ditch and never, ever be able to get out. When you walk into a poverty center in this country you see a lot of single mothers who work hard and are responsible. They have never had a champion. I'm not talking about me; I'm talking about us."

Edwards was in town to speak as keynote speaker at the "United Against Poverty Conference," a daylong event organized by state Sen. Matt Dunne (D-Windsor), Democracy For America, the Political Science Department, and senior Lakshmi Barot. The conference focused on issues relating to poverty, including ways to unite key players and financial and social approaches to helping end poverty. Other speakers included Burlington Mayor Peter Clavelle; Con Hogan, Senior Fellow, Center for the Study of Social Policy; Jane Knitzer, Director of the Center for Children in Poverty; and David Murphey, Senior Policy Analyst for Vermont Agency of Human Services.

Edwards, who was scheduled to appear later in the evening at a fundraising reception for the Vermont Democratic House and Senate campaigns at Union Station, used the campaign slogan "One America" during the 2004 presidential election to emphasize the disparity between America's upper class and the growing number of people living in poverty – a disparity he says continues to grow today. 'The income disparity is becoming stratified," he said. "There are a few rich people and the rest are poor."

Edwards gave a number of examples of how he believes poverty could be eradicated in America, which included putting an end to the "national embarrassment of the minimum wage." He called for the expansion of the earned income tax credit and a "leveling of the playing field" relating to the organized labor movement that he says is stacked against union organizers. Edwards said he established a pilot program in a rural country in North

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Carolina that would pay for room and board and tuition for students willing to work 10 hours a week while in college.

Edwards also proposed that the government match any funds put into bank accounts by people living in poverty that could be used during times of crisis like Hurricane Katrina. "Bad things happen to all of us," he said. "The difference between me and the folks in New Orleans is that when bumps in the road come along, I'm going to be fine and they are not. Having money set aside like this will help them when they need it most."

Edwards closed his speech with by turning to poverty in other parts of the world and the role the United States should play in helping end it. "When the president submits his budget, this is a moral document," he said. "It says a lot about America's priorities. How could America embrace a document that does so little for so few," he asked in reference to the budget now before Congress. "We have a void in moral leadership ... the leaders we've been waiting for are us."





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Campaign Reaches 87 Percent of Fundraising Goal

Feb 06, 2006

The Campaign for the University of Vermont has reached 87 percent of its goal of raising \$250 million by June 30, 2007.

Dates Set For Open Forums For Provost Search Finalists

Feb 08, 2006

The dates of the public forums for the five finalists for the Provost and Senior Vice President position have been announced with candidates scheduled to come to

<u>Division of Student & Campus Life Announces Two</u> Additions

Feb 08, 2006

The Division of Student & Campus Life announced the hiring of Michael DeBowes as interim assistant director of civic and judicial programs, and Keith E. Smith as men's outreach coordinator.

College of Medicine Honors Students in White Coat Ceremony

Jan 31, 2006

Universally associated with medical professionalism, the white coat provides a visual representation of a physician's commitment to providing compassionate patient care and maintaining scientific proficiency. On Friday, January 13, the University of Vermont College of Medicine Class of 2009 made that commitment as they participated in the White Coat Ceremony.

<u>Labow Family Pledges \$5 Million Gift to UVM Surgery</u> Jan 31, 2006

Retired surgeon Dr. Samuel Labow and his wife Michelle, a retired registered nurse, have pledged current and estate gifts estimated at over \$5 million to the Department of Surgery at the University of Vermont College of Medicine.

Med Students Present Public Health Projects

Jan 31, 2006

Nearly 100 second-year students from the College of Medicine presented 14 public health projects on Vermont's most critical health issues on Jan. 24 at the Health Science Research Facility.

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By The View Staff
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The current focus of the Campaign is on the New York metropolitan area, where the goal is to raise \$20 million during 2006-2007. More than \$10 million has already been raised with five months remaining in the New York phase. Boston was the Campaign focus during 2004-2005, with UVM alumni, parents, and friends exceeding the \$5 million goal by more than a half million dollars.

The final phase of the campaign shifts to Vermont during 2006-2007, when alumni, parents and friends will have the opportunity to put the Campaign over the \$250 million mark.

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By Jon Reidel Article published Feb 08, 2006

The dates of the public forums for the five finalists for the Provost and Senior Vice President position have been announced with candidates scheduled to come to campus starting in mid-February and continuing through mid-March.

The first of five public forum features Virginia Sapiro, interim provost at the University of Wisconsin, who is scheduled to give a presentation and field questions from the public on Monday, February 13 at Billings, North Lounge from 4-5 p.m. The remaining forums are scheduled for February 24 at 4 p.m. in Memorial Lounge, Waterman; March 8 at 3:30 p.m. in Billings, North Lounge; March 13 at 3:30 p.m. in Billings, North Lounge; and March 16 at 3:30 p.m. in Billings, North Lounge. Uday Sukhatme, dean of the college of arts and sciences and professor of physics at State University of New York at Bufflao, will follow Sapiro on Feburary 24.

Sapiro, professor of political science and women's studies, joined the faculty at Wisconsin as an assistant professor in 1976 after graduating from the University of Michigan with a Ph.D and M.A. in political science. Prior to that she attended Clark University in Worcester, Mass., where she graduated in 1972 with an A.B. in government. Sapiro was named associate vice chancellor for teaching and learning at Wisconsin in 2002 and was appointed interim provost in November of 2005.

Her research and teaching interests include political psychology and political behavior, gender politics, American political development, democratic theory, and the design and philosophy of social science research. She is author of three books: *The Political Integration of Women: Roles, Socialization, and Politics* (1983); *A Vindication of Political Virtue: The Political Theory of Mary Wollstonecraft* (1992), which won the American Political Science Association's Victoria Schuck Award for best book on women and politics; and *Women in American Society: An Introduction to Women's Studies* (5th edition 2002).

Born in 1951 in New Jersey, Sapiro attended the High School of Music and Art in New York City. She lives in Madison with her husband, Professor Graham K. Wilson, who is Professor and Chair of Political Science and who has a joint appointment in the LaFollette School of Public Policy. Their son, Adam, is a senior at Haverford College.

The search committee, chaired by former governor and distinguished visiting professor Madeleine Kunin, received over 60 applicants for the position currently held by John Bramley, who announced on Monday, August 29, that he would step down from the post he has held since 2001.

Information on the applicants and interview schedules will be posted as they become available at the following Web site: <a href="mailto:provost search">provost search</a>

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The Division of Student & Campus Life announced the hiring of Michael DeBowes as interim assistant director of civic and judicial programs, and Keith E. Smith as men's outreach coordinator.

Known for a strong commitment to diversity and social justice, DeBowes will fill this position at the Center for Student Ethics and Standards through June 30, 2006. Smith comes to the Center for Health and Wellbeing from his previous role as program advisor for the ALANA Student Center. The new position of men's outreach coordinator emerged out of a growing awareness at the university that vital initiatives around men's health and the critical engagement of men in sexual assault prevention efforts require additional targeted resources and sustained commitment.

Academic Support Programs announced the addition of Laura Clemmons, a disability specialist in ACCESS, and Anita Long, a learning skills coordinator in the Learning Cooperative. Clemmons is past director of the Shades of Ebony Program in Burlington and is a doctoral candidate in the higher education, leadership and policy program at UVM. Long chaired the math program at Community College of Vermont and directed Math Science Upward Bound.

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### Aiken Lecture to Focus on Vermont Landscape

Feb 08, 2006

Author and historian Jan Albers and Darby Bradley, president of Vermont Land Trust, will give a joint lecture entitled, "The History and the Future of Vermont's Landscape," on February 23 at 6 p.m. in Ira Allen Chapel as part of the 30th edition of the George D. Aiken Lecture Series.

### Practice Mindfulness with Group Meditation

Feb 08, 2006

The Center for Health and Wellbeing's Mindfulness Practice Center is holding Mindfulness Meditation Groups throughout the spring semester.

### Anti-racism Writer and Activist to Speak on Campus Feb 08, 2006

Tim Wise, anti-racism writer and activist, will speak in honor of Martin Luther King Jr. on Feb. 16 at noon in Ira Allen Chapel.

### <u>President's Commission to Host LGBT Equity Open Forum</u> Jan 31, 2006

The President's Commission on Lesbian, Gay, Bisexual and Transgendered Equity will host the LGBT Equity Open Forum on Tuesday, Feb. 7 in Billings, North Lounge.

# Rubenstein's GREEN FORESTRY Education Initiative Hosting Animal Tracking Clinic

Jan 31, 2006

The GREEN FORESTRY Education Initiative of the Rubenstein School of Environment and Natural Resources is hosting, "Identifying, Aging, Trailing, and Understanding Animal Tracks," on Feb. 4 from 1-4 p.m. at UVM's Jericho Forest.

### <u>University of Wisconsin Historian to Speak as Part of Black</u> History Month

Feb 01, 2006

William Jones, associate professor of history at the University of Wisconsin, will give a lecture on "The Tribe of Black Ulysses: African American Lumber Workers in the Jim Crow South" as part of Black History Month on Feb. 9 at 4 p.m. in Billings, North Lounge.

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### Aiken Lecture to Focus on Vermont Landscape

By The View Staff Article published Feb 08, 2006

Author and historian Jan Albers and Darby Bradley, president of Vermont Land Trust, will give a joint lecture entitled, "The History and the Future of Vermont's Landscape," on February 23 at 6 p.m. in Ira Allen Chapel as part of the 30th edition of the George D. Aiken Lecture Series.

Albers is author of "Hands on the Land: A History of the Vermont Landscape," an award-winning book that has been recognized by the Society for the Preservation of New England Antiquities, the Vermont Book Professionals Association, the Pioneer America Society and the National Arbor Day Foundation.

Bradley, past Chair of the Vermont Environmental Board and president of Vermont Land Trust, a nonprofit organization that works with individuals, organizations and communities to conserve land for the future of Vermont will illustrate the current pressures on Vermont's landscape and how they may affect its future.

The lecture is free and open to the public, but requires an online RSVP or reservation by calling (800) 639-3210 or 656-2085.

### **Leaving Carrigan**

With apologies to the internationally known circle of UVM food scientists who have plied their research in the Carrigan Dairy Science Building, the 57-year-old structure will be remembered by many alumni and locals for its ice cream.

### Secrets of a Pitcher Plant

While its leaves can't literally chew or speak, 2005-2006 University Scholar Nick Gotelli thinks the carnivorous northern pitcher plant has a lot to tell us, not only about its elegant tricks for capturing and digesting insects, but also about acid rain.

### A Call to Action

There are images of people living in poverty that John Edwards. former senator from North Carolina and vice presidential candidate, says he can't get out of his mind. Some are from right here in America.

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### **Practice Mindfulness with Group Meditation**

By The View Staff Article published Feb 08, 2006

The Center for Health and Wellbeing's Mindfulness Practice Center is holding Mindfulness Meditation Groups throughout the spring semester on Mondays and Wednesdays from 12:10 to 1 p.m. and on Tuesdays from 4:55 to 5:45 p. m. on the third floor of the Allen House. All group sessions include meditation instruction, practice, and discussion and are free for students, staff, faculty and the community.

"A lot of times we don't realize what's happening in our lives," says Luella Strattner, UVM senior and regular participant of the group sessions. "The most important moment is the present moment, but we tend to get caught up in the future or the past. Mindfulness meditation really helps people come into the present moment and enjoy life." Strattner also praises meditation for its help with stress, anger, anxiety, depression and illness.

For more information about the Mindfulness Practice Center, visit its website.

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### Anti-racism Writer and Activist to Speak on Campus

By The View Staff Article published Feb 08, 2006

Anti-racism writer and activist Tim Wise will speak in honor of Martin Luther King, Jr. on Feb. 16 at noon in Ira Allen Chapel. His lecture, sponsored by the Office of the Provost, is titled "Beyond Diversity: Challenging Racism in an Age of Backlash."

Wise, author of White Like Me: Reflections on Race from a Privileged Son and Affirmative Action: Racial Preference in Black and White, has served as consultant for plaintiff's attorneys in federal discrimination cases in New York and Washington state.

He has trained teachers, law enforcement officials, and corporate and government workers how to identify and eradicate racism in their institutions and will meet with a small group of UVM student leaders Thursday afternoon on the topics of racism and student activism.

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FROM THE UNIVERSITY OF VERMONT

February 8, 2006

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### NOTABLES

February 8, 2006

#### **Publications and Presentations**

Christopher Allen, emeritus professor of chemistry, gave a presentation on January 21 entitled, "Polyester: You Wear It, You Love It But do You Know It?" at Machine Project, a non-profit organization in Los Angeles that promotes conversations between artists and scientists. He also spoke on "Inorganic Ring Systems: Substitution and Polymerization Reactions" at the chemistry department of Ponoma College in Claremont on January 23.

**Dr. Daniel Weiss**, assistant professor of medicine, was lead author of a report titled "Limited Restoration of Cystic Fibrosis Lung Epithelium In Vivo with Adult Bone Marrow–derived Cells," in the January 15 issue of the *American Journal of Respiratory and Critical Care Medicine*. In addition to Weiss, co-authors on the paper, included **Roberto Loi**, postdoctoral research associate in medicine; **Travis Beckett**, laboratory technician in the department of medicine; **Kaarin Goncz**, research assistant professor of medicine; and **Dr. Benjamin Suratt**, assistant professor of medicine. The research, which took place in the Vermont Lung Center, was the subject of a Reuters Health article and was featured on WebMD and a number of other health-related web sites.

**Dennis Clougherty**, professor of physics, authored the article, "Jahn-Teller Solitons, Structural Phase Transitions, and Phase Separation" in the February 3rd issue of *Physical Review Letters*, the journal of the American Physical Society which provides rapid publication of short reports of important fundamental research in all fields of physics. The article focused on the idea that a hurricane on the nanoscale has been predicted to exist in certain kinds of complex materials, and that such an occurrence, known as Jahn-Teller soliton, consists of a lump of excess electric charge together with local distortions of the nuclei from their crystal positions. The stability of the soliton is a result of the synchronized rotations of the electrons and nuclei. The Jahn-Teller soliton serves as a new kind of nanoscale structure possibly relevant to a variety of complex materials such as high-temperature superconductors, colossal magnetoresistive manganites, and fullerene-based materials. It is predicted to have application to structural phase transitions and phase separation in these material systems.

#### **Awards and Honors**

The College of Medicine Class of 2008 held an awards ceremony and reception on Feb. 3 in honor of their completion of the Foundations level of the Vermont Integrated Curriculum (VIC). The awards and recipients were as follows:

- Outstanding Foundations Course: "Human Structure and Function."
- Foundations Course Director Award: Brad Wright, lecturer of anatomy and neurobiology.
- Foundations Teaching Award: Dr. Nicholas Hardin, professor of pathology.
- Integration Award (for the faculty member whose teaching best captured the spirit of the VIC): Gerald Silverstein, lecturer in microbiology and molecular genetics.
- The Silver Stethoscope Award (for the faculty member who had few lecture hours, but made a substantial contribution to students' education): **Dr. James Hudziak** associate professor of psychiatry.
- Above and Beyond (for the faculty member, not necessarily a lecturer, who went above and beyond the call of duty to help the students in their learning objectives): Dr. Masatoshi Kida, associate professor of pathology.
- American Medical Students Association Golden Apple Award: awarded posthumously to Bruce Fonda lecturer in anatomy and neurobiology.

American Medical Women's Association Gender Equity Award: Dr.
 Pamela Gibson, assistant professor of pathology.

**Stacey Sigmon**, research assistant professor of psychiatry, received the 2006 Young Psychopharmacologist Award of the Division of Psychopharmacology and Substance Abuse from the American Psychological Association. This award honors a young scientist doing original, meritorious work in psychopharmacology and encourages excellence in research at the interface between the disciplines of pharmacology and psychology. Sigmon will present her award-winning research at the APA's national convention in New Orleans in August.

February 1, 2006

#### **Publications and Presentations**

Bob Constanza, Gund Professor of Ecological Economics and Director of the Gund Institute for Ecological Economics, and Matthew Wilson, assistant professor in the School of Business Administration, co-authored the article, "Linking Ecology and Economics for Ecosystem Management" that will appear in an upcoming issue of *BioScience*, the journal of the American Institute of Biological Sciences. The article outlines an approach, based on ecosystem services, for assessing the trade-offs inherent in managing humans embedded in ecological systems. Evaluating these trade-offs requires an understanding of the biophysical magnitudes of the changes in ecosystem services that result from human actions, and of the impact of these changes on human welfare. The article summarizes the state of the art of ecosystem services—based management and the information needs for applying it.

**Dr. Peter VanBuren**, associate professor of medicine and molecular physiology and biophysics, authored a paper titled "Single-myosin crossbridge interactions with actin filaments regulated by troponin-tropomyosin" in the Nov. 22, 2005 *Proceedings of the National Academy of Science*. In addition to VanBuren, project contributors include Neil Kad, research associate in molecular physiology and biophysics; Scott Kim, research technician in molecular physiology and biophysics; David Warshaw, professor and chair of molecular physiology and biophysics; and Josh Baker, a former postdoctoral associate who now serves as assistant professor of biochemistry, University of Nevada. This research is one of several related studies funded by a \$9 million, five-year National Institutes of Health multi-investigator Program Project Grant on genetic cardiomyopathies awarded to David Warshaw as the principal investigator.

Research by **Alice Fothergill**, assistant professor of sociology, and Mary Val Palumbo, adjunct associate professor of nursing and director of the Office of Nursing Workforce at UVM, was published in the September/October 2005 issue of the journal Public Health Nursing. Titled "The Volunteer Potential of Inactive Nurses for Disaster Preparedness," the article addresses the issue of whether inactive nurses can and are willing to be mobilized in emergency situations.

January 23, 2006

### **Publications and Presentations**

Two Center on Disability and Community Inclusion faculty presented at the annual TASH Conference held in November 2005 in Milwaukee. TASH is an international service organization serving professionals in the Disabilities field, families and individuals with disabilities. **Susan Yuan**, research assistant professor and CDCI associate director presented, with Shelley Dumas of Texas, "It's Gotta Be Good — Two Old Broads Contemplate the Future." She also presented, with John Ming Gon Lian and Christine Gilson, "Hong Kong Perspectives Across Three Decades of Parenting, Inclusion, and Postsecondary Education." She was also elected for a three-year term on the TASH Board of Directors. **Michael Giangreco**, research professor of education, along with Carter Smith of the Williston School District, presented "Collaborative Leadership and Change to Address the Paraprofessional Dilemma in an Inclusive School" at the conference.

**Robert Daniels**, professor emeritus of history, published a new book, *The Fourth Revolution: Transformations in American Society from the Sixties to the*