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Capt. Dick Furbush guides UVM's research vessel, Melosira, during one of the thousands of research-related voyages he has led since 1966. (Photo: Bill DiLillo)

Fresh from college and summers working on boats in Maine's Casco Bay, Dick Furbush was nervous about an interview he'd lined up for a captain's position on a UVM research vessel known as Melosira.

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In the many places where President Daniel Fogel's ten-year plan for the university will find expression in bricks and mortar, Bob Vaughan is the point man.

[Remembering The Children](#)

It's hard to imagine a place where 15,000 children spent their final days prior to being transported to Auschwitz to be killed, not being known worldwide as one of the most horrific places in world history. For whatever reason, the children's concentration camp of Theresienstadt -- the subject of an upcoming production by UVM Theatre -- has remained relatively anonymous to the masses.

[A Learning Journey](#)

While Dan Baker may appear at first glance to be an unlikely lecturer in UVM's Community Development and Applied Economics (CDAE) department, he is the recent recipient of the university's highest undergraduate teaching award: 2003 Kroepsch-Maurice Excellence in Teaching.

THE WEEK IN VIEW

Oct. 1, noon
Event: "Deaf and Disability Awareness Month Kick-Off Rally" for students, faculty, staff, and community members to celebrate and discuss events offered and issues raised during Deaf & Disability Awareness Month. Steps of Bailey Howe Library. Information: 656-3368.

Oct. 1, 7:30 p.m.
Event: UVM Lane Series presents "Teatro Lirico D'Europa performing Mozart's Don Giovanni" complete with a full orchestra, chorus, and international soloist. Flynn Center. Information: 656-4455.

Oct. 1, 7:30 p.m.
Play: The UVM Theatre opens its 2003-04 season with the world premiere of "Remember the Children: Terezin." The presentation of poetry and artwork created by children of the Holocaust runs through Oct. 12. Royall Tyler Stage. Information. 656-2094.

Oct. 2, 7:30 a.m.
The 18th Regional Cancer Research Center is hosting a two-day symposium on "Translational Cancer Research: From Basic Science to Patient Care." Radisson Hotel and Conference Center. Information and registration: 656-4414.

Oct. 5, 1 p.m.

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Hockey Preview

Junior defenseman Gerald Miller, shown here, and the rest of the Catamounts kick off the the 2003-04 hockey season on Oct. 4 against No. 3 Boston College at Gutterson Field House. (Photo: Bill DiLillo)

NHL Legend Ray Bourque to Drop Puck on Start of UVM Hockey Season

HL standout defenseman Ray Bourque will be the special guest of Banknorth Vermont and the University of Vermont at UVM's home opener in men's ice hockey on Saturday, Oct. 4th at 3 p.m. when the Catamounts host the No. 3 ranked Boston College Eagles at Gutterson Fieldhouse.

Bourque, the longtime Boston Bruins captain who won a Stanley Cup with Colorado in 2001, will drop the ceremonial first puck before the game. A raffle to benefit the Make-A-Wish Foundation of Vermont will be held by UVM, and two lucky fans will get the opportunity to meet Bourque, have a professional photograph taken with him, and get an autographed stick from the future Hall of Famer and five-time Norris Trophy winner.

A 10-year-old boy from Derby, Vermont named Dilan will be the Make-A-Wish Foundation® of Vermont "Wish-Ambassador" for the event. Dilan is living with Acute Lymphatic Leukemia. Thanks to the charitable giving of companies like Banknorth, dreams like these continue to be granted throughout the state.

Bourque, the newest corporate spokesman for Banknorth, has a tie to the University of Vermont and its conference, America East, as his daughter plays lacrosse for the University of New Hampshire. Bourque was at BU's Nickerson Field last May for the America East playoff contest between the Catamounts and UNH.

Starting on Wednesday, October 1st at 9:00am, all General Admission tickets for the 2003-2004 University of Vermont men's hockey and men's

Prof's Book Takes a New Look at Conservation

After a long period of scrutiny through deconstruction — the relentless questioning of assumptions, values, language, discourses and power — Bob Manning, professor of natural resources, thought the conservation movement was in need of some *reconstruction* as a new century began.

His recently published book *Reconstructing Conservation* (Island Press), which he edited with Ben Minteer, a former UVM graduate student now at Arizona State University, is a collection of papers rethinking the theory and practice of conservation in the light of often harsh critiques.

"It's been useful to ask ourselves fundamental questions and examine our underlying values, but haven't we answered some of those questions now?" Manning says. "Isn't it time to make a more positive statement about what conservation means as we move into this new century?"

The book's 19 papers, bookended by an introduction and conclusion by the authors, grew out of a symposium that took place on campus and in Woodstock, and included academics as well as conservation practitioners. Many of the authors have UVM connections, as does the modern conservation movement itself — George Perkins Marsh, the 19th century lawyer and writer whose ideas are still important within the ecological conservation movement, left his library to the university.

Beyond that, Manning says, Vermont itself is rich in examples for scholars looking for healthy directions for the conservation movement to follow. The book's key argument is that humans and nature need to coexist, and that negotiating that coexistence is a task ideally suited to democratic discussion, debate and decisions.

"People deciding on what constitutes conversation in their areas is good for the land, because when people decide on something together then they've really bought into it, but it's good for people as well, because the process builds social capital by bringing people together," Manning says.

These solutions will differ wildly from place to place, based on the particular circumstances and history of a given location, a diversity that Manning embraces. From nation to nation, conservation should incorporate a strong sense of social justice, recognition that the developed world should not dictate policy to its poorer neighbors. And, though the book is intended as

and women's basketball seasons will go on sale to the general public.

Fans can choose to purchase any combination of single-game tickets or they can purchase the entire season. Tickets will be available in the UVM Athletic Ticket Office in Patrick Gym, which is open weekdays from 9:00am to 4:30pm. You can also purchase tickets over the phone by calling 1-866-4CAT-TIX (1-866-422-8849) or 802-656-4410, or via the internet.

Fogel Announces New Office to Facilitate Service-Learning and Community Partnerships

When Edward Zlotkowski asks people to name significant experiences that helped shape their lives, he gets answers that he finds disturbingly absent of any mention of their collegiate academic experience.

Zlotkowski, a professor of English at Bentley College in Waltham, Massachusetts, and one of the nation's preeminent scholars on service-learning, has been attempting to change that by helping start service-learning programs at colleges and universities that actively engage students in their respective fields and communities. He spoke recently to deans, department chairs, and faculty at a series of workshops co-sponsored by UVM and the Vermont Campus Compact.

Zlotkowski was asked to come to Vermont by President Daniel Mark Fogel, who announced the formation of the Office for Community-University Partnerships and Service-Learning on Sept. 25, saying that increasing the number of service-learning courses offered at the university is one of his top priorities.

"Professor Zlotkowski brings both a deep understanding of service learning, based on first-hand experience, and a passion for the results it can achieve that I hope will prove useful to faculty and academic leadership at UVM, and across the state," Fogel said.

The new office will have three functions, according to Fogel: to help faculty develop skills in service-learning pedagogy; to help them cultivate community-university partnerships to support service-learning, community-based research, and related activities; and to help UVM define and implement policy and strategies to facilitate community-university partnerships and service-learning.

"A growing body of research shows that students learn material more deeply and with enhanced retention when they are actively engaged in an experiential setting," Fogel said. "That's an essential element of service-learning. In addition, the reflection that occurs in the classroom in service-learning courses helps students understand more deeply the people they are serving and the societal problems they are addressing.

"In short, we are speaking of service-learning

an affirmative statement, the vision of conservation it presents incorporates skepticism — a questioning of traditional movement ideals like wilderness, a notion that is sometimes romantic, impractical and counterproductive today.

"Conservation needs to bring people and nature together, not set them apart. That's one of the criticisms of wilderness, that the idea divides people from the land," Manning says.

The book's overriding tone, Manning says, is of hope. As he and his authors survey the landscape of conservation theory and practice, both here and worldwide, they find a lot to like — community land trusts, more inclusive theories, a thriving grassroots. And, while they take stock of the occasionally harsh criticism the movement has received, they find it is still sound in its fundamentals.

"Conservation doesn't have to be, as so many issues are, a partisan political issue," Manning says. "We hope that everybody can subscribe to this notion that it's important to protect the ecological realities that underlie contemporary society. We depend on a healthy environment."

UVM Brings in Record Number of Research Dollars

The University of Vermont netted \$117 million in research dollars this fiscal year, a record number for the university and an increase of 14 percent over the previous year.

Since 1999, when UVM brought in \$70 million dollars, sponsored programs has increased its research funding by 67 percent.

Of the 699 grants awarded this year, the largest grant went to Kim Worden, research professor of family practice, for the project, "Mass Media Intervention to Prevent Youth Smoking." Frances Carr, UVM's new vice president for research and graduate studies, said she applauded the faculty who have contributed to the university's research success.

"This is a tremendous accomplishment," she said. "The number is a good proxy for the breadth and depth of the scholarship at UVM."

Carr said the vibrancy of UVM's research program has a positive impact on the university's academic program, helping UVM develop "cutting edge graduate programs," and on economic development efforts, increasing the number of partnerships the university is engaged in locally, nationally, and internationally.

Bramley to Return to Love of Teaching

President Daniel Mark Fogel announced on Sept. 25 that John Bramley has asked him to initiate a search for his successor as senior vice president and provost so that he can return in due course to the faculty in the College of Agriculture and Life Sciences.

that ties real-world experiences to very rigorous classroom curricula. That leads to the kind of personal growth we see as a hallmark of the student experience at UVM."

Both Fogel and Zlotkowski stressed the importance of understanding the true definition of service learning, which is not to be confused with pure community service.

The American Association for Higher Education (AAHE) defines service-learning as a "method under which students learn and develop through thoughtfully-organized service that: is conducted in and meets the needs of a community and is coordinated with an institution of higher education, and with the community; helps foster civic responsibility; is integrated into and enhances the academic curriculum of the students enrolled; and includes structured time for students to reflect on the service experience."

The concept of service-learning is not new at UVM as an increasing number of faculty have taught service-learning courses in recent years. In the past four years, for example, the university has provided 29 faculty members with small grants to meet as a group and develop a service-learning component in their teaching.

Psychology professor Lynne Bond, who has taught a variety of service-learning courses at UVM and was a national finalist for the prestigious Ehrlich Award for Service Learning in 2003, will serve as director of the new office.

"Many faculty are supportive of service-learning once they understand how effective it can be in helping them achieve their teaching goals," she said. "But they are challenged logistically to find a way to get students out into the community. That's where our office can help."

Through past service-learning initiatives, the office already maintains a large database of community contacts with whom faculty could partner, which Bond says will be greatly expanded. The office will also assist faculty in adapting existing courses, or in creating new ones, incorporating a service-learning approach.

In addition to Bond, the new office will be staffed by Associate Director Courtney Lamontagne, currently coordinator of the UVM/Burlington Community Outreach Partnership Center, and Senior Faculty Fellow, Chris Koliba, assistant professor of Community Development and Applied Economics and co-director of the Master's of Public Administration.

Fogel said the national search for the new provost would last between 12 and 18 months. Bramley will continue to serve as provost until the search is completed and his successor is in place. Fogel said that Bramley has been a key partner in a number of strategic initiatives, whose contributions have been highly significant.

"John is a wonderful colleague, a very talented administrator, and a gifted researcher and teacher," Fogel said. "He plays a key part on our team - a role we're counting on him to continue for the next one to two years."

Bramley said that he joined the administration at a time of transition - just prior to Interim President Edwin Colodny's tenure. Now that the institution is on a strong upward arc under President Fogel, Bramley said he felt free to plan his return to his first love, teaching and research.

"It wasn't my original intention to continue on as provost beyond my service as interim," Bramley said. "I had always planned on returning to the College of Agriculture and Life Sciences doing the work that I loved. But Dan Fogel was very persuasive and I chose to stay on. We've accomplished a great deal, but there's still more work to do. Before returning to the faculty, I look forward to consolidating the many gains we've made, and especially to leading the development of strongly linked planning and budgeting processes."

Fogel said he regretted Bramley's decision but understood it. "Being passionate about research and teaching is the mark of a great professor. I admire John greatly, not least of all for his passionate commitment to science and teaching, and rejoice that, while the University will have to engage a new provost, we at UVM will not be losing John Bramley as a friend and colleague."

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Roberson Remembered

Former UVM basketball player Kevin Roberson, who finished his career with 1,503 points and school records for rebounds (1,054) and blocked shots (409), was killed in an automobile crash in his hometown of Buffalo, N.Y. on May 8, 1993 and was inducted posthumously into the UVM Athletic Hall of Fame. The 11th annual Spaghetti Dinner to benefit the Kevin Roberson memorial Fund and Friends of UVM Basketball will be held on Wednesday, October 8.

Spaghetti Supper Will Benefit Roberson Fund

The 11th annual Spaghetti Dinner to benefit the Kevin Roberson Memorial Fund and the Friends of UVM Men's Basketball will be held on Oct. 8 from 5-8 p.m. at Marsh Dining Hall. The event also will help kick off a new basketball season for the defending America East Champions.

Vermont Head Coach Tom Brennan, associate head coach Jesse Agel and assistant coaches Pat Filien and Jeff Rush will serve as hosts for the evening. Members of the team will be serving the meal, prepared by Mary Anne Gucciardi — also known as "Mama Gooch" — and the Friends of UVM Basketball. The event will also feature a raffle.

Tickets for the dinner are \$8.00 for adults and \$5.00 for children 12 and under. They can be purchased in advance at the UVM Athletic Ticket Office in Patrick Gym (656-4410) or by contacting Eileen Fontaine at the Rusty Scuffer at 864-9451. Tickets also will be available at the door.

Roberson, one of UVM's all-time great players, finished his career with 1,503 points, and is the Catamounts' all-time leader with 1,054 rebounds and 409 blocked shots (also third-best in NCAA history). His uniform number 33 was retired

Vermont Cancer Center Marks 25th Anniversary at 18th Annual Regional Cancer Research Symposium

This fall marks the 25th anniversary of the Vermont Cancer Center (VCC) as a prestigious National Cancer Institute-designated clinical cancer center. The VCC has a history of remarkable achievements, such as the discovery of a hereditary colon cancer gene, the establishment of the first and only statewide mammography registry and the first biological evidence of a link between childhood cancer and passive smoke exposure during pregnancy.

On October 2 and 3, the VCC will celebrate these milestones with top cancer researchers from across the country as host of the 18th Annual Regional Cancer Research Symposium at the Radisson Hotel in Burlington.

In 1978, the VCC was the first center in Northern New England to receive National Cancer Institute (NCI) designation as a clinical cancer center. In 1991, the VCC received the even more prestigious NCI designation as a comprehensive cancer center, as a result of its leadership in the area of cancer prevention and control. Currently, the VCC is one of only 39 NCI-designated comprehensive cancer centers in the country.

"As Vermont's only College of Medicine, we have an obligation — and a mission — to help ensure that Vermonters receive compassionate, effective care and to conduct research that supports that care," said University of Vermont College of Medicine Acting Dean John Evans, Ph.D. "I congratulate Vermont Cancer Center members, staff and supporters for their all their efforts over the past 25 years, ensuring that Vermonters continue to have access to and benefit from the quality research and care the VCC delivers."

The Research Symposium will begin Thursday morning with remarks from Frances Carr, Ph.D., new University of Vermont vice president for research and dean of the Graduate College, who will welcome the expected 120 cancer researchers, physicians, graduate students and post-doctoral research fellows attending the symposium. Attendees will hear a keynote address by the "father" of familial cancer syndromes, Henry Lynch, M.D., professor and chair of preventive medicine and public health and professor of medicine at Creighton University School of Medicine in Omaha, Nebraska.

"This year's symposium is designed to provide VCC members and cancer researchers across the region an opportunity to hear from the top scientists in the country about the latest findings in basic science research that impacts patient

before Roberson's last regular-season game in 1992. He was killed in an automobile crash in his hometown of Buffalo, N.Y. on May 8, 1993 and was inducted posthumously into the UVM Athletic Hall of Fame in October of that same year.

Visiting Professor to Share Expertise on Medicine in the Roman Empire

John Scarborough, professor of pharmacy and classics at the University of Wisconsin, Madison, and an expert on the history of medicine and pharmacy in Greco-Roman antiquity, will present two lectures at the University of Vermont Thursday and Friday, Oct. 2 and 3.

On Thursday, Scarborough will discuss "The 'Materia Medica' of Dioscorides: The Practice of Medicine and How Pharmacology was Valued in the Early Roman Empire," from 4 to 5 p.m. in Hall B, Given Building. Pedanios Dioscorides (40-90 A.D.) was a Greek physician who wrote the first systematic pharmacopoeia, comprising five volumes of objective descriptions of approximately 600 plants and 1,000 different medications.

On Friday, Oct. 3, Scarborough will give a Grand Rounds lecture, "Drugs and Medicines in the Roman Empire," from 8 to 9 a.m. in Austin Auditorium, Fletcher Allen Hospital, fourth floor. Included in his presentation will be illustrations from the "Vienna Dioscorides," the oldest known manuscript of Dioscorides seminal text. His itinerary also includes meeting with students and a visit to UVM's Pringle Herbarium.

Scarborough holds a doctorate in Greek and Roman history as well as degrees in Byzantine studies and zoology. He has translated and published numerous texts related to folk medicine and the history of pharmaceuticals, and is the recipient of fellowships from the Carnegie Foundation and National Endowment for the Humanities, among other honors.

His visit is sponsored by the colleges of Medicine, Nursing and Health Sciences, Agriculture and Life Sciences, the Graduate College, the departments of Pharmacology, Botany and Classics, and several other campus organizations.

For more information, contact Naomi Fukagawa in the College of Medicine at 656-4403, or Robert Rodgers in the Classics Department at 656-0714.

care," said Marcus Bosenberg, M.D., Ph.D., assistant professor of pathology at UVM, dermatopathologist, VCC melanoma researcher, and symposium chair. The symposium will take place on Thursday, Oct. 2, from 8:30 a.m. until 6 p.m., followed by a 7:30 p.m. evening keynote session, and Friday, Oct. 3, from 8:30 a.m. until 12:45 p.m.

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October 1, 2003

Awards and Honors

Paula Tracy, Ph.D., professor of biochemistry and medicine and vice chair of biochemistry, was elected as a member of the Vermont Association for Science and Engineering at the organization's annual meeting on Sept. 16. VASE honors individuals who have made outstanding and recognized contributions to science and engineering.

Dona Brown, associate professor of history, has been appointed to a three-year term as director of the Center for Research on Vermont. She has been a member of the Center since 1997 and has taught courses in Vermont Studies since the academic minor was established that same year. Among her research interests are Vermont and New England regional and cultural history. Brown currently serves on the Rokeby Museum's board of directors and the New England Historical Association's book award committee.

Publications and Presentations

Lee Nelson, clinical professor of physical therapy, was one of 20 invited participants who attended Leadership in Ethics Education: A Working Conference for Physical Therapists and Occupational Therapists, held at the Center for Health Policy & Ethics at Creighton University in Omaha, Nebraska, on September 11 to 14, 2004. Each invitee prepared a scholarly paper, which was posted on a secure website for attendees to view prior to the conference, and participated in a peer-review of other participants' papers. An ethics guidebook will be produced based on the papers presented at the conference. Nelson will also present a seminar titled "Breast Cancer -- Diagnosis Through Survivorship: Rehabilitation Considerations for Health Care Professionals" at Sacred Heart University in Fairfield, Connecticut, on October 25.

Michael Radermacher, associate professor of molecular physiology and biophysics, and Teresa Ruiz, assistant professor of molecular physiology and biophysics, co-taught a practical course titled "Three-dimensional Cryo Electron Microscopy of Single Particles" August 11 - 17, 2003. The course, which was attended by 20 scientists from all over the world, focused on teaching the principles of the use of high resolution electron microscopy and included demonstrations of experimental aspects of the technology, as well as six hours of hands-on experience daily.

September 24, 2003

Awards and Honors

Milton ("Buddy") Tignor, assistant professor of plant and soil sciences, received a \$247,563 USDA Multi-state Higher Education Challenge Grant for a proposal titled "Multimedia Instrument for Worldwide Greenhouse Education." Also involved with the project are Gene Giacomelli and Chieri Kubota (University of Arizona), Tracy Irani and Sandra Wilson (University of Florida), and Margaret McMahon (Ohio State University). This multidisciplinary group has individuals with expertise in horticulture, engineering, and agricultural education."

Matthew Wilson, assistant research professor in the School of Business Administration and the Gund Institute for Ecological Economics, was recently awarded a competitive subcontract to work with Steven Wratten and Ross Cullen at Lincoln University, Canterbury, New Zealand. The research project will extend until 2007 and will analyze and model the value to New Zealand of ecosystem services for key New Zealand productive sectors (arable, pasture

and horticulture) and enhance ecosystem services and natural capital in the three sectors above to improve naturally occurring biological control of pests and diseases.

University of Vermont Fulbright Scholars **Kathleen Manning**, an associate professor of integrated and professional studies, and **Howard Ball**, emeritus professor of political science, were among 10 2002-03 Fulbright Scholars who will be recognized at a presentation on Sept. 24 in the Vermont Statehouse. Manning studied in China, while Ball went to Bulgaria.

Publications and Presentations

Kurt Oughstun, professor of electrical engineering, mathematics and computer science, presented a paper on his recent research at the Gordon Research Conference on Nonlinear Optics and Lasers at Colby-Sawyer College.

Marilyn Lucas, assistant professor of business administration, in collaboration with Chuck Nicholson of Cornell University, published an article titled "Subsidized Vehicle Acquisition and Earned Income in the Transition from Welfare to Work" in the journal *Transportation*. The study examines the extent to which participation in a small-scale vehicle donation-and-sales program (Good News Garage) increases earned income of individuals in transition from welfare to work in Vermont.

Declan Connolly, an associate professor in the College of Education and Social Services, was quoted extensively in a Sept. 22 article in the *New York Times*, "You Took a Pill. You Still Hurt. Here's Why." The story drew upon a review article that Connolly co-authored in the *Journal of Strength and Conditioning Research* casting doubt that even high doses of ibuprofen prevent muscle soreness.

September 17 – 23, 2003

Awards and Honors

Sandra Musters and **Emma Wall**, graduate students in the Department of Animal Science, won top national and regional awards for scientific presentations. Musters won first place in a national competition among 50 U.S. land-grant colleges at the annual conference of the American Dairy Science Association (production division) in Phoenix, Ariz. Wall won first place in the Northeast competition of the combined American Dairy Science Association./ American Society of Animal Science meeting held at the same location.

Karen Plaut, professor and chair of animal science, received a three-year \$949,000 grant through NASA's Fundamental Space Biology Program. Plaut and two NASA scientists are studying the effects of hypergravity on metabolic activity in pregnant rats. This research is done at the NASA-Ames Research Center in Moffett Field, Calif. Plaut and colleagues will make presentations on this ongoing research at the American Society for Gravitational and Space Biology Conference in November.

Dr. **Steven Shackford**, professor and chair of surgery, has been elected as President Elect of the American Association for the Surgery of Trauma. The national organization aims to furnish leadership in the field and foster advances in trauma surgery.

The **Center on Disability and Community Inclusion** has again been recognized by the federal Administration on Developmental Disabilities as a university center for excellence in developmental disabilities. This July, the branch of the U.S. Department of Health and Human Services awarded CDCI a five-year grant to continue activities of research and evaluation, personnel development, community outreach, and dissemination related to people with disabilities and their families toward the goal of total community inclusion.

Publications and Presentations

Antonello Borra, assistant professor of romance languages, and **Adriana Borra**, a lecturer in the department, published a translation of a German novel, *Vor aller Zeit*, in Italy as *Prima di tutti I tempi*.

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Keeping Research Afloat

By Jon Reidel



Capt. Dick Furbush guides UVM's research vessel, Melosira, during one of the thousands of research-related voyages he has led since 1966. (Photo: Bill DiLillo)

captain's job offered by UVM, which had just purchased the Melosira with the intention of going into the aquatic research business.

Furbush recalls the "on-water job interview with observation" as nerve-wracking.

"I had to get the vessel underway with people I didn't know handling lines, and of course critiquing my every move," Furbush says. "That was followed by a return trip where I had to back the boat into a narrow slip, all of which is difficult with a boat you aren't familiar with and extremely challenging on a new vessel with wind present, as well as the committee being there."

Fast-forward 38 years. It's a muggy overcast day in July of 2003 and a more seasoned Furbush is steering a newer, bigger version of Melosira off the shore of the Burlington waterfront near the shiny new ECHO at the Leahy Center for Lake Champlain. Deckhand Fred Stetson lowers an \$18,000 piece of high tech equipment called a CTD (conductivity, temperature and depth) into the depths of Lake Champlain as UVM researchers Jamie Rowder and Lisa Bower prepare to collect water samples for a water quality study.

It's clear by the way Furbush confidently handles the boat that he's orchestrated thousands of similar voyages on this floating research lab during the 20,000 miles he's logged as captain of the two Melosiras. "In many ways," Stetson says, "Dick Furbush is the Melosira."

What Lies Beneath

The Melosira has been the catalyst for some of the most important studies ever conducted on Lake Champlain. In the early days, some of the research was limited by the available aquatic technology, yet still yielded some significant results that helped shed light on numerous issues facing the lake.

Furbush points to a rainbow smelt population study in the late 80s, which helped develop a cutting-edge monitoring technique, as particularly significant to the early legitimization of the Melosira as a serious research vessel. A whole-lake survey of contaminants residing in sediments was also a significant early study, he says.

Fresh from college and summers working on boats in Maine's Casco Bay, Dick Furbush was nervous about an interview he'd lined up for a captain's position on a UVM research vessel known as Melosira.

Furbush had moved to Burlington a few months earlier in the summer of 1965 to work as a quartermaster on a ferry for the Lake Champlain Transportation Co., but had his eye on the

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[Man With The Plans](#)

In the many places where President Daniel Fogel's ten-year plan for the university will find expression in bricks and mortar, Bob Vaughan is the point man.

[Remembering The Children](#)

It's hard to imagine a place where 15,000 children spent their final days prior to being transported to Auschwitz to be killed, not being known worldwide as one of the most horrific places in world history. For whatever reason, the children's concentration camp of Theresienstadt -- the subject of an upcoming production by UVM Theatre -- has remained relatively anonymous to the masses.

[A Learning Journey](#)

While Dan Baker may appear at first glance to be an unlikely lecturer in UVM's Community Development and Applied Economics (CDAE) department, he is the recent recipient of the university's highest undergraduate teaching award: 2003 Kroepsch-Maurice Excellence in Teaching.

"We were all proud of our new research vessel and carried out much research in water quality, geology, microbiology and fisheries," Furbush remembers of the early days. "As I recall, research was carried out on the (first) vessel that supported more than 60 graduate students in the 16 years we operated the first Melosira."

Some of today's hydro acoustic surveys of fish populations, which employ the use of echo sounding equipment, would not have been possible during the tenure of the first Melosira, which ended in 1981.

"As the captain of the Melosira and technician extraordinaire, Dick brings many talents to our Lake Champlain research work and is an integral member of the UVM team," says U.S. Sen. Patrick Leahy, a longtime Melosira supporter. "His steady hand and deep commitment have been invaluable in our effort to better understand and conserve the lake we love."

Other cutting edge research is now possible with the evolution of technology, including a project by visiting Middlebury professor Tom Manley, who is studying underwater currents using a \$15,000 prototype called The Drifter. The model is the first of its kind in the world, according to Manley, who credits Melosira with making his research possible.

"The Melosira is the only vessel on this lake capable of handling the type of heavy equipment required to carry out these studies," Manley says. "It's exceptionally well-equipped. Sometimes scientists get all the glory because of their research and we miss the people who are the foundation for the findings. Dick is an unbelievable resource who's constantly thinking of new ways to do things."

Current studies include the impact of zebra mussels on the lake; The Burlington Bay Project, which uses Melosira as a platform to investigate the ecosystem health of the Burlington bay; hydrodynamic studies of the lake's currents; and an expanded investigation of the blue-green algae blooms in the lake.

Furbush has also worked closely with Art Cohn of the Lake Champlain Maritime Museum and Bob Ballard's crew, discoverer of Titanic, to help locate and excavate some historically significant shipwrecks.

The Quest

The name Melosira – a homage of sorts to a diatomic organism native to the lake – was chosen in a quickly assembled meeting by some of the early lake researchers after a call from UVM lawyers in New York who needed a name for the boat for a title transfer.

Almost 20 years later, when the university was about to buy another floating research lab, the name Melosira was kept after one of the largest financial backers of the vessel wanted to keep the original name. The ship was almost called The Quest, but the seemingly fitting name lost out in the end.

The limitations of the original Melosira's 1940s design and its minimal workspace, was a driving force behind the selection of the newer Melosira, which Furbush helped design and estimates its worth at \$500,000, including high-tech equipment.

The old Melosira didn't have radar, which according to Furbush, added a whole different level of stress to basic research trips such as the early smelt studies that were carried out at night. "It was a quantum leap when we first used radar," he says. "We took another leap in technology when we got GPS (Global Positioning System) and computerized chart programs."

"I don't think there's any doubt about research expectations being exceeded with both the old and new vessels," Furbush says. "This would relate directly to the advent of technology and its applications in the marine science field."

Spoken like a proud captain, Furbush adds that he'd put Melosira up against many other highly regarded university research vessels.

"The University of Vermont has a well equipped vessel on a great lake able to

conduct cutting edge research as well as a variety of educational opportunities," Furbush says. "I wouldn't hold my head down to any other comparably-sized vessel."

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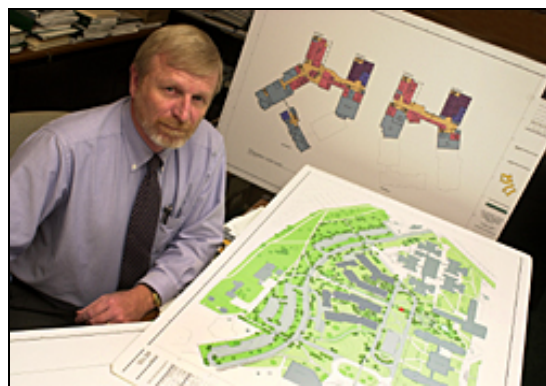
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UVM HOMEPAGE

Man With The Plans

By Tom Weaver



Man with the Plan: Bob Vaughn, director of capital planning and management, is the point man in the many places where President Daniel Fogel's ten-year plan for the university will find expression in bricks and mortar (Photo: Bill DiLillo)

In the many places where President Daniel Fogel's ten-year plan for the university will find expression in bricks and mortar, Bob Vaughn is the point man.

With a potential campus building boom in the air, it's easy to understand why the director of capital planning and management's office at 109 South Prospect has schematics, blueprints and reports covering nearly every inch of office furniture. The assemblage offers an ever-sharpening glimpse on the UVM

campus circa 2013. And Vaughn's calm, straightforward manner suggests that he is well-suited to making that vision real.

Vaughn is an architect by training and a planner by experience. The Norfolk, Va. native earned his bachelor's degree in architecture from Virginia Tech, graduating mid-1970s when firms were handing out more pink slips than job offers. Vaughn looked elsewhere, landing a job in planning with the federal government back in his hometown, where the U.S. Navy is the main economic driver. He would make the leap to the private sector in 1983, going into consulting where he began to work increasingly with higher education clients. One of them, Brown University, eventually lured Vaughn onto its own full-time staff, where he worked for five years before joining UVM in 2000.

"The college market is unlike anything else. It's similar to working for a small city because you've got housing, food, offices," Vaughn says. "That's kind of unique and it makes for an attractive environment to work in."

In the 1990s, Dorothy Renaghan was an assistant vice president at Brown intent on building a strategy to tackle a daunting backlog of deferred maintenance on the campus. First as a consultant, then as a staff member, Vaughn would play a key role in that process. Looking back, Renaghan praises Vaughn's honesty — "Bob did not tell me what I wanted to hear. He told me the truth." Vaughn helped create a detailed and accurate picture of the maintenance needs of Brown's 252 buildings, winning increased financial support from the university's trustees to take on the problem. Renaghan calls Vaughn her best hire in 25 years in management.

The desire to be closer to family — either his wife's in Vermont or his own in Virginia — drove Vaughn to apply for the newly created planning director position at UVM three years ago. Being in a new post was familiar ground, he'd been there at Brown. "I see it as a positive. I get to mold the position which gives me the latitude to be more creative," Vaughn says.

A decisive moment

Both the creativity and industry of Vaughn and his staff promise to be challenged in the years ahead, when UVM could easily add as much as one

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million square-feet of building space by 2008. The heart of the projected construction includes new residence halls, the University Commons student center, and the life sciences building. There's also an extensive renovation of Living/Learning, building the Catamount Apartments on the south end of campus, retrofitting the Trinity Campus for uses temporary and permanent, a possible arena-building process in which UVM would play a role and a Gutterson parking garage that is in many ways a linchpin for everything else.

"It is a challenge," Vaughan says, "but to be able to participate in something of this magnitude on a short time frame is just astronomical in the history of this place, and really as large as you'll find in any institution."

As the University Heights ranch houses were demolished this summer, the campus made an early but significant step toward transformation. Unrolling sketches that show the residence halls planned for the area, Vaughan points out features like a watercourse running through the residential campus, a small outdoor amphitheatre, attractive buildings with pitched roofs and environmentally friendly details. In sum, the halls will be built on a more human scale than traditional residence halls that earn nicknames like, well, "the shoeboxes."

"We're really going to be evolving a new quad, new center to campus down there," Vaughan says. "In magnitude and design, a project like this can really set us apart, which is essential because there is a lot riding on it."

He refers, of course, to the growth in enrollment the university has projected over the next ten years. As some of the prospective students the university hopes to attract visit, they'll have an unusual chance to step into UVM's residential future. Later this year, a floor model of a new room will be set up as a 12-by 24-foot module in Marsh Dining Hall. As visitors step in and picture themselves as new students in a new res hall, they'll also have a glimpse of Bob Vaughan's working world, where helping to envision UVM's future is part of the job.

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UVM HOMEPAGE

Remembering The Children

By Jon Reidel



The UVM Theatre has created an original stage presentation using poetry and artwork created by children during the Holocaust at a concentration camp for children known as Teresienstadt. The world premiere of "Remember The Children: Terezin opens Oct. 1 and runs through Oct. 12. (Photo: U. S. Holocaust Memorial Museum)

It's hard to imagine a place where 15,000 children spent their final days prior to being transported to Auschwitz to be killed not being known worldwide as one of the most horrific places in world history. But for whatever reason, the children's concentration camp of Theresienstadt has remained relatively anonymous to the masses.

Although fewer than 100 of the children who passed through the doors of the concentration camp located in a ghetto just outside Prague

survived, numerous poems, drawings, and other works of art produced by the children between 1942 and 1944 were discovered in boxes in Prague years later.

Many of these drawings and poems, considered amongst the most poignant of the Holocaust, were made into a book called "I Never Saw Another Butterfly." UVM Theater Professor Martin Thaler saw the collection at the United States Holocaust Memorial Museum in Washington, D.C. last year and was moved enough to want to bring the works of art to life in the form of a theater production at UVM.

Considering this had never been done before, it seemed like a difficult, if not impossible, undertaking. With the help of theatre department chair Jeff Modereger, who had previously worked with the U.S. Memorial Museum as a mural artist and associate designer on a major exhibit dealing with the same subject matter, they were able to convince the State Jewish Museum in Prague to loan them some of the drawings and poems by the children at Theresienstadt that had never before been released.

It's from these rare depictions of life at Theresienstadt, along with the poems and artwork in "I Never saw Another Butterfly" that Thaler, Modereger, director Veronica Lopez, and other members of the department have based their original production of "Remember the Children: Terezin." The worldwide premiere of The UVM Theatre production is Oct. 1 through Oct. 12 at Royall Tyler Theatre.

"We've tried to give the words of the children some humanity," Modereger says. "We were given exclusive rights to this and we didn't want to change anything. We're not necessarily trying to recreate a moment, just give it some humanity, give the children a voice."

Many of the drawings depict what life was like in the ghetto for these children who were all under the age of 15. Some drawings show birds and butterflies flying around happily with the red roofs of Terezin, as it often referred,

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ominously looming in the background. Other drawings show threatening guards and the deportation of other children.

But not all of the art depicts gloom and doom. Many of it shows hope and beauty. Some children are depicted happily playing in a garden while another drawing shows a sailboat guided by a candle. Another shows a child scaling a mountain to freedom perhaps. Modereger emphasizes that the production is obviously about a deeply disturbing subject, but that there are powerful moments of hope and compassion.

"Although they never experienced the horrors of a (adult) concentration camp, it doesn't deny the fact that what they were experiencing was a horror unto itself," Moderger says. "So yes, there are moments that are considerable, but at the same time it's because of this book that their lives go on."

Once Thaler and Modereger convinced Prague museum officials to loan them the material, the daunting task of putting it into the form of a theater production became paramount. Modereger turned to Veronica Lopez, a past UVM Theater director and lecturer in the School of Natural Resources, for help.

"Jeff told me he thought I would be the person to do it because it had no structure," Lopez says. "We're trying to tell a story through poems, not dialogue. The drawings also tell a story. So the question was how do you bring all this material together and make it interesting to an audience for an hour-and-a-half. We've tried our best to bring the page to the stage and bring it to life so everyone will know about Terezin when they leave."

The final result is a mixture of music, dance, reading and acting performed by 12 UVM performers and five crewmembers. Drawings and other visuals such as a large video screen behind the performers is also part of the experience. One of the performers, who is deaf, uses American Sign Language to tell some of the stories.

German Professor David Scrase, director of the UVM Center for Holocaust Studies, consulted on the project. Scrase, who teaches a world literature course that examines various aspects of the Holocaust in literature, art, music, and film, describes Terezin as "part ghetto, part concentration camp, and part transit camp."

Scrase, who prefers to call Terezin by its original German name of Theresienstadt due to the Germans' creation of the camp, says it was held up as a "model camp" by the Germans as a part of a propaganda campaign to show how well they treated children. Billed as the "Führer's gift to the Jews," the concentration camp was part of a propaganda movie produced by the Nazis that featured a visit by the Red Cross after the camp was spruced up and made to look far better than it really was on a regular basis.

"They fixed everything up and shepherded the Red Cross around and entertained them for a while," Scrase says. "Once they left, the people who had been fattened up for the visit were shipped off and murdered in Auschwitz."

One of the inspirations for the considerable volume of artwork and poetry produced by the children was the large number of adult artists and intellectuals that stayed at Theresienstadt. The adults held classes and tried to give some sense of normalcy to the lives of the children, whom Scrase says knew where they were headed once they left the confines of Theresienstadt.

"If they had not gone there they would have gone straight to the killing camps and been dead within two or three hours," Scrase says. "They knew where they were going after Theresienstadt. For me, the significant thing was that there was a desperate attempt by the adults to preserve some sense of normalcy for the children through classes. The drawings and the poetry were the result of grownups trying to keep them busy with something creative to do during the time they were there."

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A Learning Journey

By Cheryl Dorschner



Dan Baker, a lecturer in Community Development and Applied Economics (CDAE) department, is the recent recipient of the university's highest undergraduate teaching award: the 2003 Kroepsch-Maurice Excellence in Teaching.

A young man with a strong wanderlust, Dan Baker's travels in the 1980s took him across the country in a Volkswagen bus, to the Caribbean where he worked captaining sailboats for tourists, and to West Virginia where he made his living as a river guide. A sail around the world was on the future itinerary, as well. That all changed, somewhat, when Baker attended a talk by John Deep Ford, UVM associate professor in Community Development and Applied Economics.

"He totally changed the direction of my life," says Baker, who was motivated to enroll in graduate studies in international development at UVM, earning his master's degree in 1995. Now Baker is inspiring students as Ford inspired him. The lecturer in CDAE is among those selected for the 2003 Kroepsch-Maurice Excellence in Teaching Award.

Both happy wanderer and committed teacher inform Baker's work in CDAE International Program classes in which he teaches three courses and travels to Honduras with lecturer Ken Becker, doctoral student Eduardo Gallo and about 18 students.

"I think what's different about our (study-abroad course is that) we actually spend a whole semester in a prep course getting ready," says Baker. "By the time the students get to Honduras, they're totally pumped."

Another difference is that students work directly with local people, community leaders and government officials. And thirdly, based on their skills and interests, students are matched with an existing community project arranged between UVM and the Honduran community. For instance, Baker leads students to work with Hondurans in global positioning system (GPS) mapping, agriculture classes, water quality issues and a sugar-cane project. The breadth of these topics might be daunting to some.

"Because his course work touches a variety of fields that are each rapidly evolving – agricultural economics, sustainable development, demographics, public administration and others – Baker is a master at revising his materials and staying abreast in a variety of core areas," says Associate Professor Fred Schmidt. "For example, an agricultural economist practicing in developing countries needs to know some of the rudiments of plant genetics as well to understand the implications of the application of genetic modified organisms," he adds. "Dan is adept at pulling these loose ends together."

"Precisely because the Honduras course is an international living, learning and work experience, students confront, face-to-face, the realities of poverty, environmental degradation, health concerns and shocking economic

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disparities," says Ken Becker, one of Baker's partners in the Honduran project. "Dan's instruction consists of engaging students in observation, reflection and dialogue, maintaining a perspective as outsiders with responsibilities to participate with counterparts rather than preach."

Becker says that Baker approaches international development with humility and a do-no-harm approach. "Above all, Dan has high expectations for students to perform and act like professionals throughout this life-changing experience," Becker says.

"I view the students as a young community," Baker says. "I ask them, what we can do as a community. I try to encourage discussion. There aren't black-and-white answers or easy solutions in social and environmental problems. My tendency is toward optimism perennially – the alternative is too dark. When we're talking about the world and the serious challenges we face, I always try to think of a positive direction we can go. Otherwise, the problems seem overwhelming. We look for positive things that will make a difference for the community and healthy for us to do. What we do in Latin America is practical."

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