ON CAMPUS EVENTS

Monday October 6, 2008
Lecture by Liz Ogbu of Public Architecture,
7 PM Kresge Auditorium, Visual Arts Center

Liz Ogbu will speak on recent works and design equity. She is an advocate for the non-profit sector, for sustainable design and community collaborations. Ogbu developed a prototype design for Day Labor Station that was featured at the Design for the Other 90% exhibit at the Cooper-Hewitt, National Design Museum, in the summer of 2007.

Duke University Professional Environmental Graduate School Visit:
Forging a Sustainable Future
Hold the date Wed. 10/8 12:30
ES Common Room

Make a career out of your concerns about climate change, ocean pollution and sustainable development. Learn how you can make a difference by choosing Duke University's Nicholas School of the Environment.

Duke’s Nicholas School is among the world’s premier graduate professional schools for the interdisciplinary study of the environment. Meet Lisa Rattray, Admissions Officer for the Nicholas School, to learn about graduate opportunities as well as undergraduate courses available at the Duke Marine Lab.

The Nicholas School fully integrates science, business and policy in its environmental sciences program, providing both theoretical and practical education in Environmental Sciences & Policy, Marine Science & Conservation and Earth & Ocean Sciences.

Lisa will discuss the two-year professional Master of Environmental Management (MEM) degree that blends science, business and policy to solve environmental issues. Areas of study include:

- **Ecosystem Science & Sustainability** – to improve understanding of how natural ecosystems function, the human impacts on them and strategies to provide a sustainable future for all life on Earth.

- **Environmental Health** – to improve understanding of the linkage between environmental quality and human health and to forecast changes to human health as a result of global environmental change.
- **Business & the Environment** – to work within the corporate sector to promote sustainable business practices, based on the principles of industrial ecology, use of renewable sources of energy and material-use efficiencies.

Duke’s MEM degree trains and prepares future environmental scientists, leaders in environmental policy and ecosystem managers. Our graduates dominate national policy and are widely employed in industry, government and not-for-profit NGOs.

To learn more about Duke University's Nicholas School programs, go to [http://www.nicholas.duke.edu](http://www.nicholas.duke.edu). You can also email Lisa Rattray at [lisa.rattray@duke.edu](mailto:lisa.rattray@duke.edu).

(Re) Visions of Industrial Spaces

Drawings and Photography from Eastern Europe/ Watson Fellowship

Cotton Estes ’07

Opening Sat. 9/27 5-7 PM

Exhibit in the VAC 9/29-10/11

Hold the date (condense)

Presentation at Bowdoin College:

**Wed Oct 15th**  4pm  Adams Hall  Rm 103

**Academics!** When was the last time you discovered a new species? In fact! When was the last time your research had a direct impact on the protection of a species? If your research interest is related to zoology, environmental conservation or ecology call us to learn more about our visiting academic program.

**Students!** Tired of hearing about the same boring BSc, MSc, or PhD projects? Why not make up your own and join us in the jungles of Indonesia? the depths of the Red Sea? or the South African bush? for the study of your dreams and the envy of your lecturers!

Operation Wallacea is the newest, safest, most educational, and exciting way for US students and academics to conduct their own research in some of the most remote and threatened habitats of the world. Over the last ten years, multidisciplinary academics from as far as Tasmania to as near as Connecticut, have helped us with the necessary research to establish protected areas of international importance in Indonesia, Peru, South Africa, Honduras and Mozambique, while supervising enthusiastic and motivated undergraduate and post-graduate students from the United Kingdom, Canada, Ireland and more recently the USA.

The initiative of the student in their project design, and the novelty and importance of their research at our field sites incites a passion for their field through hands on experience and direct contribution to science. Many are left with a yearning to come back and get more involved on graduation, but don’t just take our word for it! Here’s what some students had to say:

“I had an amazing time in Peru. I never feel I can adequately describe my experience and be able to do it justice. It was truly once in a lifetime opportunity and would do it again in a heartbeat.”

Tom Daly UMass Amherst (Peru 2008)
“My project supervisors were so enthusiastic that it really made the project enthralling. I am so glad that I chose the senior thesis that I did and am now super interested in pursuing ornithology further!”
Keely Craig, Union College (Indonesia 2008)

“Africa has been one of the most life changing experiences I’ve ever had. Within the first minute of arriving in the game reserve we were caught in a breeding herd of over 30 elephants, we were immediately immersed into a World most people will never be able to imagine, let alone experience. The passion of the workers and guides was inspirational”.
Matt Favazza Salem State (South Africa/Mozambique 2008).

Operation Wallacea is currently signing students up for next summers programs! Places are limited so call us today (Ph: 732-746-3140) or email us at usa@opwall.com to learn more about how you could join us on expedition and maybe even earn credit for an internship, independent study or a senior thesis!

OFF CAMPUS EVENTS

Maine League of Conservation Voters
6th Annual Evening for the Environment

October 2, 2008 at 5pm
Abromson Center, Portland
University of Southern Maine

Featuring speaker Gary Hirshberg, Chairman, President and CEO of Stonyfield Farm and author of “Stirring it Up: How to Make Money and Save the World”

Student Rate $20 (for a reduced rate, contact Tracy at the e-mail address, or phone number provided below) OR Sign up to volunteer (and have your ticket fee waived)

To receive the student rate or to volunteer - contact Tracy (tracy@mlcv.org or 620-8811)

For more information, please visit: http://www.mlcv.org/indextest.asp?pset=6&Cid=695

Making Maine's environment a political priority!

Daren Wendell - The Earth Expedition, "A Walk Around The World"
Tuesday, Sept. 30 7:00 pm
Frontier Café Cinema & Gallery, 14 Maine St. Fort Andross

Mix 11 languages, 18,000 miles, 7 years, 3 continents, 17 time zones, 14 countries, 36 million steps, 1 man, a backpack and a dream and you get The Earth Expedition - a man's dream to walk to the world's continents on nothing but two feet. Since 2006 Daren Wendell has been planning, saving, reading, researching, and training for The Earth Expedition. On his travels, he is also raising awareness for Blood:Water Mission, an organization committed to clean blood and clean water to fight the HIV/AIDS pandemic in Africa.

For more information, call 725- 5222, or check the website: www.explorefrontier.com

Patagonia Presents the Wild & Scenic Environmental Film Festival On Tour
Friends of Casco Bay is thrilled to host "Patagonia Presents the Wild & Scenic Environmental Film Festival On Tour", Saturday, October 4th. We hope you will join us for an evening of inspiring, thought-provoking, and entertaining films.

Tickets are now on sale at the following locations:
- Whole Foods Market, Portland
- Cycle Mania, Portland
- Patagonia Outlet, Freeport
- Bull Moose Music, all locations
- or buy tickets online at Brown Paper Tickets

**Endangered Species Win for Atlantic Salmon!**

Speaker: Doug Watts, River Activist & Author of Atlantic Salmon ESA Petition
When: Thursday, October 2nd at 7:00 p.m.
Where: Curtis Memorial Library, Brunswick

Join Friends of Merrymeeting Bay (FOMB) on Thursday, October 2 at 7:00 p.m. in Brunswick’s Curtis Memorial Library for the first presentation of their 2008/2009 Winter Speaker Series now entering its 12th season. The presentation, ‘Endangered Species Win for Atlantic Salmon!’ will feature Doug Watts, river activist and author of the endangered species petition to expand protection of the Atlantic salmon.

On September 3rd, the National Marine Fisheries Service and US Fish & Wildlife Service announced their proposal to redefine the endangered Gulf of Maine population of Atlantic salmon to include fish found in the Kennebec, Androscoggin and Penobscot Rivers. This decision comes in large part from pressure brought to bear by Doug Watts, Tim Watts, FOMB and the Maine Toxics Action Coalition in their 2005 citizen Endangered Species Act petition to list the Kennebec Atlantic salmon and from a 2008 lawsuit filed in federal court by FOMB, Doug Watts and the Center for Biological Diversity to force the listing decision. The listing decision was 2 years overdue in spite of support from a 2006 federal status review for expanded populations of Maine salmon to be protected by the ESA. Immediately following the listing proposal, the Services also published in the Federal Register a proposed expansion of Critical Habitat that may help protect the salmon.

Doug Watts is an expert on Atlantic salmon and other migratory fish in Maine. He was a former newspaper reporter specializing in historical accounts and currently is a freelance writer, fishery consultant and river activist. Watts also has been President of Friends of Kennebec Salmon for many years. Watts and his brother wrote the citizens ESA petition to protect the American eel and while the federal government found the petition to have scientific merit, they ultimately decided against listing the eel as an endangered species. Friends of Merrymeeting Bay continues to partner with Watts on state and federal efforts to protect American eel, Atlantic salmon and other migratory fish who are denied access to spawning habitat and or victims of turbine mortality. Watts will discuss the importance of Atlantic salmon, the proposed expansion of endangered species listing to Kennebec, Androscoggin and Penobscot Rivers, the Critical Habitat [CH] recommendations, how the listing and CH will help all migratory fish and how citizens can submit constructive comments before upcoming deadlines, in support of the proposals.

The **FOMB Winter Speaker Series** takes place monthly from October-May on the first Thursday. The November presentation, ‘Growing Up the Hard Way [Next to Swan Island]’ features local historian, Jake Bishop. This event will take place 7pm. Thursday November 6th
at the Merrymeeting Grange Hall in Bowdoinham. The series, which is free and open to the public, is sponsored by Friends of Merrymeeting Bay with support and valuable door prizes from Patagonia Outlet in Freeport.

To receive more information on FOMB’s programs call Misty Gorski, Executive Coordinator, Friends of Merrymeeting Bay, at 582-5608 or fomb@gwi.net. Full speaker schedule and biographies are available [or will be shortly] on the web at www.friendsofmerrymeetingbay.org.

Climate Change 21 -- Choices for the 21st Century (CC21)
October 23 & 24, 2008

All undergraduate and graduate students from Maine’s colleges and universities are invited to submit abstracts describing posters or presentations they would like to display at CC21 in October 2008.

There will be five categories of student work at CC21:
• Undergraduate student posters -- research on climate change causes, effects, and choices
• Graduate student posters -- research on climate change causes, effects, and choices
• Arts and humanities presentations related to climate change (performance, fine arts, etc.)
• Public education posters on climate change causes, effects, and choices
• Student team report posters on campus initiatives related to climate change

In each category there will be a cash prize of $500 and recognition at the conference session during Day 2 for the best poster or presentation. In addition there will be up to ten honorable mention awards drawn from any of the five categories.

The competition judging team will be led by internationally-recognized climate scientist Dr. Paul Mayewski, Director, Climate Change Institute, The University of Maine. Honorary Judge and awards presenter will be Scott Pelley of “60 Minutes” -- CBS News.

To register your poster or presentation, please send the following by Tuesday, September 30 to Mark W. Anderson, Coordinator, Ecology & Environmental Sciences Program, 5782 Winslow Hall, University of Maine, Orono, Maine 04469-5782. Inquiries to: mark.anderson@umit.maine.edu

Name:
Email address:
Institution:
Title:
Abstract: (no more than 100 words)

at one of the Bay's most scenic spots. Cutko is a botanist, ecologist and forester and a former FOMB Steering Committee member. Participants must pre-register with Cutko at 666-3162.

Merrymeeting Bay Wildlife Management Area near the mouth of the Cathance River, offers a spectacular view of Merrymeeting Bay including the mouths of the Muddy and Androscoggin rivers as well as the Cathance. The over 300 acres of fields and forest are owned by the state and managed by the Department of Inland Fisheries & Wildlife [IF&W]. Participants should be prepared to walk about ¾ mile to the water.
The last FOMB Outing of the season on Saturday September 13th from 11-1pm will be a Paddle to Bird Island led by Anne Hammond departing from Butler Cove in North Bath.

**Smart Growth Summit**
Friday, Oct. 10
Augusta Civic Center

Special rates for students $35.

Maine’s students share our optimistic vision of a prosperous, environmentally sustainable future for Maine. For these reasons, we’d like to invite Maine’s high school, college, and graduate students to attend GrowSmart Maine’s annual Summit: Friday October 10th in the Augusta Civic Center. This year’s Summit is focused on how Maine can adapt to and prosper from the revolutionary changes our state is facing. How will our governments respond to persistent budget shortfalls? And what are the opportunities of growing a new “green innovation” economy to escape our climate and energy crises? The event is also an ideal networking opportunity for students searching for a job or an internship: our guest list includes hundreds of leaders from Maine’s State House, the private sector, nonprofit organizations, and government agencies. The $35 student registration rate includes lunch and snacks. For more information and to register online: [http://www.growsmartmaine.org/blog/?p=213](http://www.growsmartmaine.org/blog/?p=213).

**INTERNSHIPS/RESEARCH**

**Gulf of Maine Research Institute**
Portland, Maine
Interns – Fall 2008

**Description of research:**

The Gulf of Maine Research Institute (GMRI) is seeking two (2) paid interns to work in our Pelagic Ecology Laboratory on a recently funded project titled *Can bottom-up effects influence energetic condition of Atlantic herring in the Gulf of Maine?* The project will test the hypothesis that the availability of lipid-rich developmental stages of the copepod *Calanus finmarchicus* strongly influences the energetic condition of adult Atlantic herring (*Clupea harengus*), a primary forage species of Atlantic bluefin tuna and other piscivores in the Gulf of Maine. More specifically, the project will describe the intraannual variability in Atlantic herring diet (spatial, ontogenetic, seasonal) using a combination of gut and stable isotope analyses, and relate these findings to variations in their growth and condition using a bioenergetics model. Interns will assist with basic dissections, measure and record biological parameters, prepare samples for stable isotope analysis, perform bomb calorimetry to measure fish energy density, and enter data into computers.

**Qualifications:**

Successful candidates will have a strong background in biology and will be working towards a degree in marine ecology or a related discipline. Successful candidates will
also be responsible, well-organized, serious about a career in science, and able to navigate basic computer programs (e.g., Excel, Word). An ability to work in a team setting and communicate effectively is necessary. We expect each intern to consistently work about 10 hours per week.

Applications:

Applicants should submit a letter of interest, a resume and names of three references. Applications close at **5 pm on Friday, October 2, 2008**.

Please e-mail applications and inquiries to:

  Kathi Higgins  
  Gulf of Maine Research Institute  
  350 Commercial Street  
  Portland, Maine 04101

ResearchIntern@gmri.org

For additional information about GMRI, please visit www.gmri.org

GMRI is an equal opportunity employer.

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**Energy Internships – Maine Department of Environmental Protection**

_The Maine Green Schools_ – is a program to bring greater awareness to Maine schools and communities around the topics of climate change and clean air. DEP will be hiring 2-3 interns whose role will be to build the capacity of the participating organizations and schools by connecting the schools to resources to meet community needs. The projects will address air quality/energy efficiency related issues of concern and actually engages school administrators, building managers, teachers and students in doing Basic Energy Assessments at their schools and in selected homes. The Interns will be asked to facilitate school and community awareness as well as service learning projects with local school teams.

Possible duties include: Making presentations on the Carbon Footprint 2% Solution to challenge students to take certain actions to reduce carbon emissions by 2 percent annually. The presentation is followed with the introduction of the audit kit tools; Working with teacher to support students investigations and facilitating students’ efforts to engage the community in awareness and action by documenting their findings/experiences and then create an information campaign for a target audience in the community

_This is a one-two semester time commitment of a minimum of 50 hours of service to be paid a $500 scholarship cash stipend at end of service terms along with any approved travel expenditures for required trips >25 miles._ The Intern(s) will be assigned a list of tasks and deliverables to be completed over the duration of the service term. Many of the tasks will be independently scheduled while work assisting a teacher or school or community team will need to be coordinated to meet the needs of the partners the Intern is assigned to assist. This should average about 3 hours of service per week over the course of a semester.

For more information or to apply, contact Eileen Johnson at ejohnson@bowdoin.edu

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**Internship – Alternative Energy project**
Midnight Oil Company is a privately held Fuel Distribution and Service Company located in Newcastle Maine. Beginning in the spring of 2008 we have begun to market Geothermal and solar solutions to our customers as a reasonable alternative to using fossil fuels. We also have built a working “lab” of Geothermal systems that encompass many variables including “open” and “closed” loop wells, and various heat distribution methods (Air, radiant heat). We are considering further advancements in the lab including DX wells. All of this technology is working and in fact heats and cools our facility.

Our objective this winter is to meter our various permutations of Geothermal solutions to demonstrate costs of operation vs. heat production to make a case for our customers to invest in this new technology. To do this we intend to develop scenarios over time and capture kilowatts used vs. heat output, degree days and various other factors. We have made a preliminary selection of a software/hardware tool which we would acquire that would capture and model this data.

Our secondary objective will be to use this data to support financial models to demonstrate the advantage of capital investment (Geothermal Home System) vs. consumption of a post tax commodity (Fossil Fuel).

The appropriate student would have an interest in alternative energy, and a desire to measure practical application of Geothermal Energy in our lab. The student would be expected to build and execute a project plan that includes the following milestones:

1. Select the tools (software and hardware) from a short list and install or assist in the installation of the same.
2. Establish test cases and work with our technicians to set the equipment to run as desired (e.g. A home running radiant heat for 1 month using a heat pump on an “open loop” well).
3. Collect and incorporate other data points (e.g. degree days).
4. Model, test, and report the output.

This program could begin in early September and continue through the winter. Compensation would be negotiated. Hours are flexible so long as they are incorporated into a working project plan.

Contact: Eileen Johnson at ejohnson@bowdoin.edu

Conservation Finance Forum
The Conservation Finance Forum is pleased to announce the Conservation Capital in the Americas Conference and Student Competition. This is a great opportunity to participate in an international conference. Funds are available for a Bowdoin student to attend this conference in Chile.

The Conservation Capital in the Americas Conference will be held January 17 through 19, 2009, in Valdivia, Chile, and will explore some of the most effective practices and promising innovations in the field of conservation finance. Approximately 100 invited conservation practitioners, educators and students from North, Central, and South America will participate. The conference includes a student competition to identify, assemble, and support emerging leaders in conservation finance. Students selected on the basis of essays on conservation finance will be awarded the funded opportunity to attend the conference.
To access the competition application information, please visit the Forum website: http://www.conservationfinanceforum.org/competition.html

Applications will be accepted September 2 through October 20, 2008. For further inquiries please contact:

- Jim Levitt at James_Levitt@harvard.edu
- Elizabeth Reardon at studentcompetition@conservationfinanceforum.org

**Climate change and the future of the Northern Forest**
Northern Forest Alliance 2008 Climate Change Conference
November 1 and 2, 2008; day long events
Dartmouth College, Hanover, New Hampshire
Note: Registration and lodging are at no cost to Bowdoin students

Who should attend this conference?

- Undergraduate students concerned about the impacts of climate change on the Northern Forest.

Why should you attend?

- Learn from experts in the field
- Develop the best emission reduction options for your campus
- Take action to enhance the future of the Northern Forest
- Contact Shelly Martin to register at smartin@nfainfo.org or at 802.253.8227 ext. 13

Visit the website at www.northernforestalliance.org.

**Maine Environmental News Volunteer opportunity**
Maine Environmental News is looking for student volunteers to help update this webpage by posting articles in the area of contemporary environmental issues.

If you would like to find out more and become involved, contact Eileen Johnson at ejohnson@bowdoin.edu.

Link for Maine Environmental News: www.maineenvironews.com

*For Previous Newsletters, Please Visit* http://www.bowdoin.edu/environmental-studies/resources/newsletter.shtml