

**ES Newsletter, week of September 20, 2010**

## **ON CAMPUS EVENTS**

### **Using a Simple Mathematical Model to Understand Arctic Ice Behavior in Future Warmer Climate (Dorian Abbot, University of Chicago)**

**Tuesday Sept 21<sup>st</sup>**

**Reception to be held at 4pm in Searles 214**

**Talk to begin at 4:15pm in Searles 315**

Arctic sea ice is currently being lost at a rapid rate. This loss could continue linearly until there is no sea ice left or sea ice could exhibit nonlinear behavior, such as a collapse after crossing a nonlinear threshold or jumping between equilibria as a result of stochastic weather forcing. Eisenman and Wettlaufer have recently developed a simple model of seasonal variations in Arctic sea ice that allows us to get a handle on what sort of behavior we might expect. Their main conclusion was that summer sea ice loss shouldn't exhibit nonlinear threshold behavior but winter sea ice loss should. We extend their model to include changes in clouds and heat transport into the Arctic as sea ice is lost. We find nonlinear behavior is possible for summer sea ice loss, but that winter sea ice loss should be "more" nonlinear. These results appear to be consistent with those from highly complex global climate models.

Jointly hosted by the Departments of Mathematics, Physics, Environmental Studies and Earth & Oceanographic Sciences. Supported by the NSF.

### **Showing of the film "Fresh"**

**Wednesday Sept 22<sup>nd</sup> at 7pm**

**Searles 315**

The optimistic follow-up to "Food, Inc.", this documentary explores how fresh, local food can improve the lives of humans and our planet. According to Marion Nestle, "Fresh is just that—an upbeat and wonderfully fresh look at our food system and how to make it work better for the health of humans and the planet. It's a must see for everyone who eats." Sponsored by Sustainable Bowdoin and Bowdoin Organic Garden

### **12<sup>th</sup> Annual Common Good Day**

**Saturday September 25<sup>th</sup> at 11:30AM**

Common Good Day will take place on Saturday, September 25 from 11:30 a.m. to 4 p.m. A cherished Bowdoin tradition, Common Good Day is an annual day of service involving over 600 students, faculty, staff, and alumni, and approximately 60 non-profit organizations in the greater Brunswick area.

### **Taste for Change Dinner: Local Food to Support Local People**

**Friday September 24<sup>th</sup> at 6pm**

Join us for a delicious meal cooked using local foods and fine conversation in support of sustainable agriculture. Donations collected at the meal will benefit the Morris Farm Trust, which promoted sustainable agriculture and stewardship of the earth through education, demonstration and community involvement. Taste for Change is a student service group that partners with non-profit organizations to raise awareness about issues in the community. Contact Danica ([dloucks@bowdoin.edu](mailto:dloucks@bowdoin.edu), 406-369-2686) with questions and to RSVP (for an attendance estimate.)

**Save the Date! Symposium on National Ocean Policy**  
**Friday October 15<sup>th</sup> evening and Saturday October 16<sup>th</sup> all day**  
**Bowdoin College**

The Obama administration has recently unveiled changes to national ocean policy. The recent oil spill in the Gulf of Mexico illustrates the need for a coordinated approach to ocean management. The Coastal Studies Center is hosting a symposium and panel discussion on Friday October 15 and Saturday, October 16 to investigate what these changes may mean for the Gulf of Maine, and the people whose livelihoods depend on the ocean. The symposium is free and open to the public, but registration is required. The panel discussion on Saturday evening is free and open to the Public- and no registration is required.

Posters & Abstracts: Consider presenting a poster describing your recent work on marine issues, policy or natural resource management. For more information on posters & abstracts and to register, see the website :

<http://www.bowdoin.edu/coastal-studies-center/symposia/national-ocean-policy-2010/index.shtml>

Support for the symposium is being provided by Bowdoin College Trustee Geoff Rusack '78, P'13 and Alison Wrigley Rusack, Maine Sea Grant, the departments of Biology, and Government, the Environmental Studies and Kent Island Programs, and the McKeen Center for the Common Good.

## **INTERNSHIPS, FELLOWSHIPS, AND VOLUNTEER OPPORTUNITIES**

### **Common Good Grant Committee**

**Application Deadline:** Wednesday, September 22<sup>nd</sup>

Interested in learning about philanthropy? Want to learn what it's like to work for a foundation that awards grants to non-profits? Apply for Bowdoin's Common Good Grant Committee! Students on the Committee are broken into two groups; the Grant Committee will read applications submitted by local non-profits seeking funding and decide how to award funds; and the Extension Committee raises additional money to supplement the \$10,000 donation that the Committee starts with. For more information and to download an application, visit

<http://www.bowdoin.edu/mckeen-center/service-leadership/common-good-grant/index.shtml>.

### ***Non-profit Mock Job Interviews***

*Friday, Oct. 15<sup>th</sup>, 8:30 a.m.-1:00 p.m. (1/2 hr interview slots available)*  
*Bowdoin Career Planning Center*  
*Registration deadline: Oct. 1, 2010*  
*(Priority given to seniors)*

Is non-profit work in your future? Then don't miss out on a valuable opportunity to meet Carl Little, Executive Director of the Maine Community Foundation, for a mock job interview. Having a practice interview before the "real thing" is the key to getting the job you want. Space is limited, so register now for the Oct. 15<sup>th</sup> interviews! (Other career sectors also available) Go to the Bowdoin Career Planning homepage, log into eBear, and search under "jobs" for Mock Job Interview Day. For assistance, call 3718, or stop by the CPC in the Moulton Union.

## **OFF CAMPUS EVENTS/JOB OPPORTUNITIES**

**E2Tech's Gubernatorial Debate**  
**Thursday September 23<sup>rd</sup>, 8AM-10:15AM**  
**Hannaford Hall, Abromson Community Education Center**  
**Bedford Street, Portland, Maine**

E2Tech's September 23 Gubernatorial Debate is likely to be the candidate's definitive discussion of environmental and energy issues in Maine. Attendees will be able to submit questions beforehand that may be asked of the candidates. Don't miss it! There will also be a continental breakfast beginning at 7:15AM with opportunities to network with campaign members and event sponsors.

Register now at

<https://e2tech.org/index.php?module=EventManager&func=register&twocol=1&eid=199>.

**Ecological Recovery: KELT's Fall Environmental Symposium**  
**Thursday September 23<sup>rd</sup>, 7PM**  
**Maine Maritime Museum**  
**243 Washington Street, Bath, Maine**

Each fall the [Kennebec Estuary Land Trust](#) offers a symposium on an environmental topic of global significance and local relevance. This year's topic explores ecological recovery through habitat restoration, an effort critical to the health of our natural resources and the support they provide to human populations both environmentally and economically.

On Thursday, September 23, John Lichter, Associate Professor of Biology and Environmental Studies at Bowdoin College will discuss his current work with a team of researchers from Bates and Bowdoin Colleges and the University of Southern Maine on ecological and economic recovery of the Kennebec Estuary. This research is part of Maine's Sustainability Solutions Initiative, funded through the National Science Foundation.

Lichter summarizes his research by saying, ""When I first came to Maine 10 years ago, I was told stories about how polluted the rivers once were and how much recovery had taken place. While it's

true that water quality improved dramatically following the Clean Water Act, many biological aspects of the rivers and estuary will require much more time and restoration efforts. Our research is designed with the goal of understanding the constraints on further ecological recovery in our rivers, estuary, and nearshore marine environment with implications for economic renewal as well."

Following Professor Lichter, Franklin Burroughs will entrance the audience with a talk entitled, "Of Time & A River: Thinking about the Kennebec".

Mr. Burroughs is the author of several books and many essays, inspired by the outdoors and people who enjoy it. In 2006 he wrote *Confluence: Merrymeeting Bay* which won the John Burroughs 2009 Medal Award for Best Nature Writing. A graduate of the University of the South, Franklin Burroughs earned M.A. and Ph.D. degrees at Harvard and served as Professor of English at Bowdoin College until his retirement in 2002. He lives in Bowdoinham.

All lectures are held at 7:00pm at the Maine Maritime Museum, 243 Washington Street Bath, Maine. A \$5 donation is suggested at the door. For reservations visit [www.kennebecestuary.org](http://www.kennebecestuary.org) or call 442-8400.

**7<sup>th</sup> Annual Climate Summit – Save the Date!**  
**October 9<sup>th</sup> and 10<sup>th</sup>**  
**Unity College**  
**Unity, Maine**

Come stay at Unity College and meet students from around the state. Participate in workshops, panels, and community excursions focusing on climate change and sustainability.

The 7<sup>th</sup> Annual Maine Climate Summit will educate, unite, and empower future local and global leaders to take action on climate change!

Please respond with an indication of interest. We do have a limited amount of space available and are trying to accommodate as many students as possible!

Workshops and speakers list as well as payment information will be available soon

Questions and responses can be sent to Deirdre at [DBirbeck07@unity.edu](mailto:DBirbeck07@unity.edu)

**Hand in Hand for the Land – Save the Date!**  
**October 17, 2010, 3:00 – 8:00 p.m.**  
**Frontier Café, Brunswick**

The Brunswick-Topsham Land Trust (BTLT) is celebrating 25 years of local land conservation this year with an event called Hand in Hand for the Land, a feast of locally grown food prepared by local chefs. There is a great need for volunteers to help staff this wonderful event to serve food, manage the flow of people, help farmers/restaurateurs staff their stations, set up the event and clean up after the event. Volunteers are needed from 3:00 to 8:00 pm (or any subset of these hours) on

Sunday, October 17. Call Angela at 729-7694 ([btlt@zwi.net](mailto:btlt@zwi.net)) if you are interested in volunteering. The event will take place from 4:00 to 7:00 pm at Frontier Café, and will include blue grass music and activities for children.