Environmental Studies Newsletter December 9, 2020

COMMUNITY OPPORTUNITIES & EVENTS

Apply Now for MEEA’s Maine Environmental Changemakers Network 2021 Cohort!
Are you passionate about Environmental Justice?
Deadline to apply: December 21, 2020

If you are a young person in Maine between the ages of 15-30 apply to join our 2021 cohort of the Maine Environmental Changemakers Network. The year will kick off with a virtual Gathering in January followed by optional trainings and opportunities throughout 2021! This is an amazing way to grow your skills, expand your network and build your capacity to lead environmental action and justice in your community, campus or school! Application closes December 21st! See the Maine Environmental Education Association’s website, or Apply here

“Inspired by Fridtjof Nansen: An artistic re-telling on the Nansen passport for the climate refugees of the 21st century” - a talk by Anneli Skaar
Tuesday, Dec. 15 6:30 via zoom

The Camden Conference and Camden Public Library present Creative Director at the Farnsworth Art Museum, Anneli Skaar, on December 15 at 6:30pm via Zoom. Her talk is titled “Inspired by Fridtjof Nansen: An artistic re-imagining of the Nansen passport for the climate refugees of the 21st century”. The talk is open to all. Please contact jpierce@librarycamden.org for the link.

The Nansen Passport was a passport devised for stateless peoples and refugees in 1922 in post-Great War Europe by Norwegian polar explorer, scientist, diplomat, and humanitarian Fridtjof Nansen. Ironically, the unknown regions of the far north that Nansen explored in his youth are today directly connected with climate disruption and sea level rise as well as the far-reaching humanitarian issues that accompany them. How are Nansen’s creative solutions to the great humanitarian crises of his day relevant to the issues of human displacement and migration that we face tomorrow?

A year in the ice: Insights into the changing Arctic Ocean from the MOSAiC expedition - talk by Madison Smith (Bowdoin ‘14)
January 76:30 pm on Zoom via Rockland Public Library, and the Camden Conference

**Please email pking@rocklandmaine.gov for a link to the Zoom.

The MOSAiC expedition was the result of decades of planning and collaboration by 20 nations to freeze a research ship into the ice of the Arctic Ocean for an entire year – the largest polar expedition in history. The ship served as a platform to observe all components of the Arctic sea ice and climate system with the aim of better understanding the changing Arctic. As a member of a team of sea ice scientists during the summer leg of the expedition, Smith collected data to understand how sea ice is melting in the new Arctic. Throughout the summer, the team watched
as the ice evolved from thick and snow-covered to thin and speckled with melt ponds. The data and observations will be used to improve model projections and provide insight into future changes. During this talk, Smith will share stories of what it was like to be a part of the largest polar expedition, and provide a window into our first results on characteristics of Arctic sea ice now.

Dr. Maddie Smith is a postdoctoral scholar at the Polar Science Center at the University of Washington in Seattle, Washington. Motivated by the loss of sea ice in a rapidly changing climate, her research uses observations and modeling approaches to understand how sea ice interacts with the ocean. Her fieldwork has taken her to the oceans at both ends of the earth, and most recently she was a participant in the summer leg of the year-long MOSAiC expedition. Maddie completed her PhD in Civil & Environmental Engineering at the University of Washington exploring the role of surface waves and turbulence in the autumn Arctic Ocean. She received her B.A. in Earth & Oceanographic Studies and Environmental Studies from Bowdoin College in Brunswick, Maine, where she first dreamed of exploring the Arctic while learning about the transpolar drift of Fridtjof Nansen.

“What is Happening to Northern Climates?” A short course

This year the topic of the Camden Conference is the Arctic and its focus will be on the geopolitical implications for a changing Arctic region. The Senior College course will highlight the science forcing those changes and projections for the future.

The Camden Conference will take place Feb. 20-21, 2021. The Senior College course, a tutorial about how and why our climate is changing, will run for six 60- to 90-minute online sessions, beginning Jan. 11 and ending Feb. 15, 2021. According to a press release from Senior College, it will serve as a preparatory experience for those planning to attend the February Camden Conference on “The Geopolitics of the Arctic: A Region in Peril.”

“Severe wildfires, southern hurricanes, extreme weather, the warming Arctic and melting glaciers are all part of our daily news cycle,” the press release said. “It is impossible not to recognize that no matter where we live, our world is being impacted by a global transformation. Senior College at Belfast is pleased to offer a course that will help us understand our changing climate. Perhaps more importantly, it will bring home how climate change in northern latitudes affects us locally AND what we can do!”

Lectures and discussions will put in perspective fire, drought, tropical storms, changes in weather patterns, melting permafrost, land ice vs. sea ice, and more. The course will explore effects of changing greenhouse gases, including vegetation change and sea level rise in understandable terms. The role and attribution of humans in the process will be examined and explored.

The course will be taught by Dr. Susan Conard. She has a Ph.D. in ecology from the University of California, Davis and worked with the U.S. Forest Service for more than 25 years, including time at the White House reviewing climate change reports. Now retired, Conard still serves as co-editor-in-chief of the International Journal of Wildland Fire.
The online course also will be open and free to local Maine high schools. The Environmental Science class at Belfast Area High School is already planning to attend.

To register, there is a $20 course fee; all course fees are waived for high school students and teachers. See the Senior College at Belfast website for additional information or call Nancy Perkins at 218-1369. For more information, visit https://belfastseniorcollege.org/class/what-is-happening-to-northern-climate.

Camden Conference- This year Free for students!
JOIN US FOR THE 34TH ANNUAL CAMDEN CONFERENCE
THE GEOPOLITICS OF THE ARCTIC: A REGION IN PERIL

February 20 – 21, 2021 | ONLINE!
In this unusual year, high school, college and university students will be given access to the livestream of the “The Geopolitics of the Arctic: A Region in Peril” at NO COST.

The 2021 Camden Conference will explore the Arctic, one of the world’s least-known regions. The Arctic already is undergoing dramatic, irreversible changes traceable to global warming, and as these changes impact the pace of climate change, they forewarn of the challenges ahead for human, animal and plant habitats in this and other regions.

We will examine how this transformation of the Arctic is creating a new arena for global power and competition. With the retreating ice mass will come new opportunities to pursue exploration and extraction of vast resources. Will there be unregulated competition, or cooperation among governments and industries? What kinds of security challenges will come with ice-free borders? The territories of eight nations extend into the Arctic, but others—especially China—will assert rights of access and passage. Open waters will make shipping between Pacific and Atlantic ports much cheaper. What could all this mean for Maine with its accessible northern ports, maritime industry, and vulnerable location on a rising ocean?

Please plan to join us on this voyage into the future of global affairs in the Arctic and our planet.

Please fill out the registration form completely. You will be sent a password and a link to access the Conference prior to Conference weekend. Please email support@camdenconference.org if you need assistance or have any questions. Thank you for your participation!

The Acadia National Park Science Symposium
January 14 & 27
The Symposium provides a forum to learn about science taking place in the region and to interact and build collaborations with scientists, educators, students, park staff, and others working in a range of fields.

Each symposium session will be held via Zoom and include a series of brief presentations, short breakout sessions, and full group discussion. Each session will also feature breakout groups for participants to share their work via posters or other digital media (submission information in the
registration form below). We will distribute titles, abstracts, and links to digital media ahead of each session, and will encourage participants to include them in their discussions.

We will be holding two separate workshops. The first on early-career opportunities and internships in Acadia National Park in January, and the second workshop in April will include information on the research permit process and reporting, how to adapt your research to COVID-19, science communication, and breakouts to chat with other researchers, students, and park staff.

Session 2. Monitoring change in Acadia National Park
Thursday, January 14, 2021, 12-2 pm
Speakers:

- Bik Wheeler, Wildlife
- Hannah Webber, Intertidal Zone
- Camilla Seirup, Forests
- Jasmine Saros, Freshwater

Session 3. Workshop: Early career opportunities and internships in Acadia
Wednesday, January 27, 2021, 12-2 pm
Speakers:

- Kate Petrie, National Park Service
- Stephanie Clement, Friends of Acadia
- Sarah Hooper, Schoodic Institute
- University of Maine (invited)

See the website for more information and to register, All sessions will be recorded and made available to the public. Registration closes on January 12

Fellowships

Stanford’s Summer Undergraduate Research in Geoscience and Engineering Program
Diversity, Equity, Inclusion
Apply now, deadline Feb 1, 2021

SURGE 2021 Applications are now accepted. Apply here by February 1st!
View the list of projects for SURGE 2021 here. We will be updating project continuously until January 25th.

SURGE: Bringing diverse perspectives to the Earth and Environmental Sciences. Because we all live on this planet.

Are you interested in climate change research? Using the latest technology to monitor crop yields in Tanzania? Creating computer simulations of tsunamis? Are you an Earth sciences major or a physics major starting to explore the Earth sciences? Apply to SURGE. We welcome students from the geosciences and from other STEM majors to apply for this research opportunity.
SURGE provides undergraduates from a U.S. institution the opportunity to gain mentored research experience at Stanford University in the geosciences and engineering during the eight-week period of June 21, 2021 to August 13, 2021. We especially encourage students who are seeking a formal research experience for the first time to participate. The underlying philosophy of SURGE is to train students by creating a supportive and rigorous work environment. We set high expectations for our scholars: to prepare them for a potential career in the field of geoscience and engineering, and to ensure that they get the most from their stay at Stanford.

**Coastal Research in Environmental Science and Technology (CREST)**
University of Massachusetts, Boston
June 7- August 13
Deadline to apply: Feb 1, 2021, or until positions are filled—don’t

UMass Boston campus is south of downtown Boston located on Columbia Point peninsula*

Participants will receive:

- $6000 stipend
- Round trip airfare to and from Boston, MA
- Housing for the 10 week program period.

Eligibility

1. Applicants must be citizens or permanent residents of the United States
2. enrolled in college for the fall 2021 (i.e. students who will graduate with a bachelor's degree by June 2021 are not eligible to apply)
3. have successfully completed an introductory course/course sequence major (e.g. biology, ecology, geology, chemistry, policy, economics, and management)
4. be willing to live in group housing**
5. be able to participate in the program full time, possibly including weekends doing field and laboratory work.

**The CREST-REU is an inclusive program and we ensure a safe and comfortable environment for all scholars. Please contact us if you have any questions or concerns about the housing accommodations.

Students that are minorities underrepresented in the sciences, veterans, disabled, or are early (rising sophomores or juniors) in their undergraduate coursework are especially encouraged to apply.
*COVID-19 Information: The UMass Boston CREST-REU program is excited to offer our summer research program again in Summer 2021! We are hoping, and continue to plan for, an in-person research experience. However, the COVID-19 situation for the upcoming summer is very uncertain and we are bound by local health and safety regulations and state travel restrictions. In the event, that we cannot bring CREST scholars to Boston, we will transition our program to a virtual internship program and expect to offer a 10 week research experience remotely with a full stipend.

Questions?? Contact Dr. Helen Poynton, CREST-REU Director, email: helen.poynton@umb.edu

**Woods Hole Oceanographic Institution (WHOI)**
Summer Fellowship Program
Application Deadline: Feb 5, 2021

Summer Student Fellowships are awarded to **undergraduate students who will have completed their junior year at colleges or universities by the start of the fellowship period**. Students who will graduate before the fellowship begins are not eligible to apply. Preference is given to students studying in any of the fields of science or engineering including but not limited to the fields of biology, chemistry, engineering, geology, geophysics, mathematics, meteorology, physics, oceanography, and marine policy. Students must have at least a tentative interest in the ocean sciences, oceanographic engineering, or marine policy. Through the Summer Student Fellowship program, WHOI's aim is to provide promising students with a meaningful first-hand introduction to research in oceanography, oceanographic engineering, or marine policy.

Members of groups underrepresented in ocean science and engineering are encouraged to apply. WHOI actively recruits underrepresented minorities in ocean science as defined by the National Science Foundation (African-, Hispanic- and Native-Americans, and Pacific Islanders) in all of our education programs, as well as programs of the Woods Hole Diversity Initiative, such as the Woods Hole Partnership Education Program. More information can be obtained by contacting education@whoi.edu.

**ACORE Internships (American Council on Renewable Energy)**
Application Deadline: March 5, 2021

Internship applications are welcome from students and recent graduates who are committed to making renewable energy the focus of their career paths.

Intern program participants engage in research, writing, and cross-departmental assistance based on their interests and the organization’s current focus. ACORE interns are also responsible for the development and presentation of an individual research project. This project focuses the intern’s attention and knowledge on a facet of the renewable energy industry, preparing them to seek career opportunities in that area. Interns work on their presentations by researching a topic of their choosing and interviewing members of the renewable energy sector, as well as potential employers, through personal introductions by staff and networking opportunities.
Interns support the ACORE departments listed below:
Communications, Events, Programs, Corporate Engagement, Finance & Administration, Policy

JOBS

**National Wildlife Foundation, Climate & Energy Fellow (Washington, D.C)**
11 month full-time position, $16/hr
Founded in 1936, the National Wildlife Federation (NWF or Federation) is America's largest and most trusted grassroots conservation organization with 52 state/territorial affiliates and more than six million members and supporters, including hunters, anglers, gardeners, birders, hikers, campers, paddlers, and outdoor enthusiasts of all stripes. The Federation's mission is to unite all Americans to ensure wildlife thrive in our rapidly changing world through programming focused on conserving wildlife, restoring habitats and waterways, expanding outdoor opportunities, connecting children with nature, and addressing the causes and consequences of climate change.

We are seeking a Climate and Energy Program Fellow for a full-time 11-month, paid opportunity. This position is based at NWF’s National Advocacy Center in Washington, DC to support our Climate and Energy team. Our Climate and Energy team advances domestic policies at the federal, state, and regional levels that curb greenhouse gas emissions, speed an equitable transition to clean energy and industry, and expand natural and technological carbon removal. We seek to grow bipartisan support for short- and long-term congressional action on climate, working with a range of partners to build diverse coalitions.

You will report directly to the Senior Coordinator, Climate and Energy, and work alongside the rest of the team in Washington, DC, to perform and synthesize subject-matter research, track congressional activity, expand and update online tools, and produce materials to support our program.

**Environment America** is looking to fill our [Zero Carbon Campaign Associate](#) and [Environmental Defense Campaign Associate](#) positions. These entry-level positions are a great way for students interested in pursuing a career in environmental advocacy to get in-depth training on how to run an advocacy campaign at the federal level. We also offer remote internship opportunities for current students to learn how to analyze environmental problems, push for smart solutions, and build the public support it takes to win.

These positions are posted on Bowdoin's Handshake account.

Reino Hyyppa, Oceans Fellow, rhyppa@environmentamerica.org  p: 860-918-8785

**Maine Campus Compact, AmeriCorps Energy Efficiency Coordinator** (Jan. 21 start date)
Experience Maine’s natural beauty and exciting outdoor opportunities while making a difference for local communities and the environment! Maine Campus Compact (MCC) is a statewide coalition of colleges and universities whose purpose is to further the public purposes and civic mission of higher education. Through MCC’s Maine Energy AmeriCorps Program (MEAP), formerly the Maine Partnership for Environmental Stewardship Program, 6 Full Time AmeriCorps Members will develop and implement energy efficiency action plans with clear outcomes and will lead MEAP program events and volunteer recruitment efforts in campuses and communities throughout the state.

MEAP will build partnerships between community organizations and college campuses at 6 sites throughout Maine to effect behavioral and technical change leading to energy efficiency, particularly for economically disadvantaged Mainers. Through campus/community partnerships focused on reducing energy and light weatherization services, MEAP AmeriCorps Members will increase energy efficiency and cost savings for economically disadvantaged populations, community organizations and non-profit higher educational institutions.

The host sites will have one FT AmeriCorps Member* based at each site. The sites are pending final approval.

POSITION RESPONSIBILITIES

Community Priorities
- Develop a Community Advisory Board
- Plan, promote and oversee 2 Community Energy Education Events
  - Recruit volunteers, community members, and energy efficiency organizations
  - Recruit participants from the community including economically-disadvantaged households
  - Identify opportunities for educating K-12 students and assist with curriculum development and activity sheets
- Plan, promote, and oversee one Window Insulating Insert Build Event
  - Recruit households, volunteers, and community organizations to participate in Window Build
  - Coordinate window measurements and delivery/installations with participating households
- Plan, promote, and oversee virtual Green Energy Assessments
  - Conduct home energy visits via phone/virtual
  - Assist with outreach paperwork for other qualifying energy incentive programs
- Implement and conduct outreach for the Conserve Maine Energy (CME) Public Awareness Campaign
- Organize one virtual Green Jobs community forum and one Earth Day Event
- Develop Maine Energy Efficiency Guidebook and other resource materials

Campus Priorities
• Plan and oversee campus Energy Education Events to raise awareness about energy efficiency and cost savings for the institution and for students living on and off campus
  ○ Recruit student participants
  ○ Recruit energy efficiency organizations to help with education events
  ○ Organize and lead events
• Plan and oversee virtual campus and off campus Green Energy Assessments to create behavioral change around energy efficiency
  ○ Recruit participants
  ○ Conduct virtual campus energy checks for students on and off campus
• Recruit student volunteers for virtual MEAP community events
• Develop other projects around energy efficiency on campus as needed
• Act as a liaison between Minimum Time Members and site supervisor

*Please note that due to COVID-19 some of our activities have been modified due to social distancing guidelines. Our 2020-2021 team will spend much of their initial focus on our Conserve Maine Energy (CME) Public Awareness Campaign to raise awareness about lowering energy use and energy costs for low-income Mainers and some direct service activities can include (for the time being) COVID-related support in the host site community.

**Required qualifications:**
**Maine Campus Compact AmeriCorps Energy Efficiency Coordinator**
• Applicants must be at least 17 and a US citizen
• Bachelor’s degree required
• Excellent oral and written communication skills
• Well-developed organizational abilities
• Strong team member and leaderships skills
• Knowledge/experience with community engagement, partnership building, and volunteer recruitment
• Motivated, independent worker
• Valid driver’s license and car

**Preferred qualifications:**
• Prior work with community partners and/or college students
• Experience in environmental stewardship or energy efficiency initiatives
• Strong interpersonal skills and comfortable speaking in public
• Volunteer management and event planning experience
• Event planning experience

**Benefits and Terms**

**Education Award Living Allowance**
<table>
<thead>
<tr>
<th>Service Term</th>
<th># of hours</th>
<th>Education Award</th>
<th>Living Allowance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full-Time</td>
<td>1,700</td>
<td>$6,345</td>
<td>$14,279</td>
</tr>
</tbody>
</table>

Other benefits include: Health care coverage, childcare assistance for qualifying members, student loan forbearance (if eligible) and professional development including skill development and Green Jobs trainings, personalized career counseling and support in developing a personal career action plan, and an enhanced green/environmental professional network.

*The official start date for this position will be January 4, 2021.*

**To Apply:** Please complete the application at americorps.gov or click the link below:


*All selected candidates must complete a federal and state background check.*

*All qualified applicants will receive consideration for service without regard to race, color, religion, sex, national origin, sexual orientation, age, disability, protected veteran status, or any other characteristic protected by law.*

*AmeriCorps is an independent federal agency whose mission is to improve lives, strengthen communities, and foster civic engagement through service and volunteering.*