Weekly RAP March 7, 2016

Monday, March 7
12:00 -1:00 pm
401 Akasofu Bldg (IARC)
MS Chemistry defense
Environmental influence on Arctic halogen chemistry: Investigation of melt onset and snowpack properties
Justine Burd, M.S. Chemistry candidate.

1:30 - 2:30 pm
Vera Alexander Learning Center, 201 O'Neill Bldg
Biology & Wildlife graduate defense
Modulating neuronal aging: Insights from insulin signaling genes and Alaskan nutraceuticals
Courtney Scerbak, Department of Biology & Wildlife.

4:30 – 5:30 pm
Murie Auditorium
Biomedical and One Health Seminar Series
Environmental health implications of tellurium in a surficial semi-arid environment
Sarah Hayes, Assistant Professor of Chemistry UAF

Tuesday, March 8
10:00 am
Webinar Sponsored by the Alaska Center for Climate Assessment and Policy (ACCAP)
URL: http://accap.adobeconnect.com/human_rights/event/event_info.html

Human Rights & Climate Change in the Arcti
Mark Trahant, Charles R. Johnson Endowed Professor of Journalism, University of North Dakota.

Minimizing the impact of climate change will depend on our ability to move towards a low-carbon society. Altering the way in which our global economy functions is fundamental to this change. Governing individual and collective behavior, including the conduct of state and federal governments, is therefore central to addressing both the causes and the impacts of climate change. A critical understanding of the complexities, challenges and opportunities raised by the policy regime for mitigating and adapting to climate change will be highly relevant for tribal government's and communities who seeks to play a role in moving Alaska towards mitigating and adapting to change.

Topics Include:
1) International human rights standards - guideline to address climate change;
2) Climate Change and International Law & Policy;
3) Equity and Adaptation;
4) Sustainable Energy Governance;
5) Climate Change and Litigation;
6) Universal Declaration of Human Rights;
7) Core Universal Human Rights Treaties;
8) The application of governmental policies to indigenous peoples right to land and natural resources.
Contact: Tina Buxbaum, 907-474-7812, tmbuxbaum@alaska.edu

**Wednesday, March 9**

1:00 -2:00 pm
Vera Alexander Learning Center, 201 O’Neill
SFOS Fairbanks Fisheries Seminar
The risk of Elodea to salmon-dependent communities
Tobias Schwoerer

2:30 – 3:30 pm
401 Akasofu Bldg (IARC)
Biological Sciences MS defense
Kaposi’s Sarcoma–associated herpesvirus replication and transcription activator regulates extracellular matrix signal pathway
Daniel Pfalmer, M.S. Biological Sciences candidate

**ABSTRACT:**
Kaposi’s Sarcoma (KS) is an AIDS defining malignancy caused by infection with Kaposi’s Sarcoma-associated Herpesvirus (KSHV; aka Human Herpesvirus 8 (HHV8)) of which tumor cells show a characteristic ‘spindle-like’ morphology. The transcription factor RTA (Replication and Transcription Activator) is the viral protein responsible for reactivating KSHV from its latent state. Production of RTA in latently infected cells causes a number of viral proteins to be produced and leads to a cascade of gene expression changes in both viral and host genes. Previous work in our lab showed that RTA was capable of reprogramming cells in vitro to display a spindle-like morphology. In this study we aimed to identify the host gene expression changes caused directly by RTA which could be responsible for that reprogramming. To that end, Madin-Darby Canine Kidney cells (MDCK cells) were chosen as a model for KSHV-naive mammalian cells. Differences in host gene expression levels in a culture of MDCK cells transfected with a plasmid coding for expression of RTA compared to MDCK cells transfected with a similar plasmid lacking the RTA gene were measured by whole transcriptome sequencing (RNA-Seq). Cells containing the RTA-coding plasmid adopted a spindle-like morphology and showed at least a two-fold change in expression level in approximately 180. Those 180 genes were then screened for known associations to signaling pathways in order to determine which might be involved with the morphological changes observed and/or biological significance. The expression levels of the 10 genes identified by that screening were then verified by quantitative real time PCR (qPCR). Of those 10 genes, eight were identified as potentially associated with the morphological changes. Including three genes associated with extra cellular matrix (ECM) destruction (MMP9, CTSD, and CTSS) that were down-regulated; two genes associated with blocking ECM destruction (TIMP1 and TIMP2) that were up-regulated; two ECM component genes (LAMC2 and COL1A2) that were upregulated; and one gene associated with blocking cell-cell and cell-ECM adhesion (MUC1) that was downregulated. The remaining two genes (MAP2K1 and podoplanin) were identified as potentially biologically significant, but not directly involved in regulating morphology. MAP2K1 is associated with epithelial dedifferentiation and was down-regulated; and the lymphatic endothelial specific marker podoplanin (PDPN) was up-regulated. Taken together, the differences in morphology and gene expression between RTA-producing cells and controls suggest a possible role for RTA in the formation of the spindle cells that characterize Kaposi’s sarcoma.

3:30 -4:30 pm
Vera Alexander Learning Center, 201 O’Neill Bldg
Institute of Marine Sciences Seminar
Ecosystem model intercomparison of under-ice and total primary production in the Arctic Ocean
Meibing Jin, International Arctic Research Center (IARC), UAF

**Thursday March 10**
10:30 -11:30 am
401 Akasofu Bldg (IARC)
Marine Biology PhD defense
Alaska Arctic epibenthic communities: distribution patterns, links to the environment and brittle star populations
Alex Ravelo, Ph.D. Marine Biology candidate.

3:00 – 4:00 pm
Murie Auditorium
Atmospheric Sciences MS defense
Lidar studies of the nickel layer and radar studies of turbulence in the Arctic mesosphere
Jintai Li, M.S. Atmospheric Sciences candidate

Friday, March 11
March 11 -13
2016 Sustainable Northern Shelter Forum
Cold Climate Housing Research Center * Fairbanks, Alaska
https://www.institutenorth.org/calendar/events/2016-sustainable-northern-shelter-forum

The Cold Climate Housing Research Center (CCHRC), in partnership with the Institute of the North (ION) and Natural Resources Canada (NRCan) will host the 4th Sustainable Northern Shelter Forum on 11-13 March 2016, in Fairbanks, Alaska.

Entitled "A Holistic Approach to Sustainable Northern Shelter," the Forum presents an opportunity for an international group of community leaders, builders, architects, building scientists, and planners to discuss common challenges and exchange solutions to producing sustainable, appropriate, and durable buildings and infrastructure in the circumpolar north.

The goals of the forum are to identify strategic research priorities in the field of northern building and infrastructure design and technology, share innovative designs and prototypes, develop ongoing circumpolar partnerships, and disseminate the information gathered among the wider circumpolar community.

9:15 -10:15 am
107 Murie
Biology & Wildlife MS defense
Diet and Habitat of the Little Brown Bat in Interior and Northern Alaska
Rachel Shively, M.S. student, Department of Biology and Wildlife.

3:30 -4:30 pm
Vera Alexander Learning Center, 201 O'Neill Bldg
Institute of Marine Sciences special seminar
A presentation by Michiel Rutgers van der Loeff, Alfred Wegener Institute

3:30 – 5:00 pm
214 O'Neill Building (by VCON from Juneau)
Juneau Fisheries Seminar
Thinking like a sperm whale: Southeast Alaska Sperm Whale Avoidance Project (SEASWAP)
Lauren Wild.

Saturday, March 12
Arctic Summit Science Week begins
https://assw2016.org/
The Arctic Science Summit Week is a gathering of Arctic Research organizations. Any organization engaged in supporting and facilitating arctic research may participate. The week is organized by an International Planning Group (IPG) made up of the secretaries of: the Intern'l Arctic Sci Cmt (IASC); the European Polar Board (EPB); the Forum of Arctic Res Operators (FARO); the Pacific Arctic Group (PAG); and the University of the Arctic (UArcitc). In principle it is chaired by IASC which determines, in consultation with the other organizations, the location of the ASSW and the dates. In odd numbers years the ASSW includes a 3-day Science Symposium as well as meetings of the participating organizations. In even number years the ASSW includes only meetings of the participating organizations and a 1/2 to full day Common Day to discuss issues of common concern and joint programs or activities. Three meeting will be held with very specific agenda and days assigned (ASSW; Arctic Observing Summit (AOS); and the Arctic Council (AC) The IPG as ASSW 2014 approved ASSW 2016 at the University of Alaska Fairbanks, Fairbanks, Alaska. Larry Hinzman, IARC, is US Delegate and vice president to the IASC Committee and chair to the Local Organizing Committee for ASSW.

For additional information please contact Dorothy Parkerson at dparkerson@iarc.uaf.edu

12:00 - 4:00 pm
UA Museum of the North Family Day – Arctic Science
Family Days allow the whole family to connect with museum collections and research. Discover Alaska science, culture, and art, create crafts, try out experiments, meet the experts, and explore galleries.

Celebrate Arctic Science Summit Week. Get inspired by museum research. Ask experts from the entomology and genomic resources collections! See student work from the ASSW Art & Video Contest.

There is no admission fee for children 14 and under thanks to a grant from Saltchuk.

Parking is free on weekends.

**COMING UP**
**Monday, March 14**
9:30 -10:30 am
107 Murie
Geophysics PhD defense
Remote sensing of lake dynamics in Alaska
Prajna R. Lindgren, Ph.D. Geophysics candidate, UAF Department of Geosciences

**VOLUNTEER OPPORTUNITIES**

We are coordinating the 23rd annual Science Potpourri - CNSM's premier community outreach event. Last year we had over 1200 community members participate in the many engaging exhibits. This year the Science Potpourri will be held on **Saturday, April 9 from noon to 3:00 p.m. in the Reichardt Building.**

It takes an army of volunteers (thank you to the departments and classes already committed to helping!) to host this amazing event. You can help in the following ways:

Exhibitor: If you would like to host an exhibit contact Jacy Pietsch at jpietsch@alaska.edu

Door Greeters: We need several volunteers to serve as door greeters - if you have a class you would be willing to provide extra credit to, or a student group that is looking for community outreach to support, this would be a good opportunity. Contact Hild Peters hmpeters@alaska.edu

Parking Directors: We need several volunteers to serve in the parking lot directing traffic. This is a very important role that we really need help with this year. If you are interested or have a student group willing to take this on, please contact Hild hmpeters@alaska.edu
Floor monitors: We need a few people (preferably faculty or staff) to help monitor the flow of traffic, resupply maps, help direct people to exhibits, find lost children and be on hand for non-exhibit issues. If you are interested in helping, please contact Hild hmpeters@alaska.edu

Volunteers working during the three hour event are provided with 2016 Science Potpourri Volunteer buttons, pizza and refreshments.

Thank you for your participation in making this such a wonderful event!

Dear Scientists,

It is once again science fair time at Barnette Magnet School. I am looking for judges for the morning of March 8th. The judging usually takes 2 - 3 hours, but you are welcome to stay for as short or long a time as works for you. We serve a nice breakfast, have lots of coffee, and provide a fun and rewarding experience! Please let me know if you are interested and available. Also, if you have friends or colleagues who are interested in helping with this great community service project, please pass this email on to them. Thank you so much for your help!

Amy Zacheis
Barnette Magnet School Science Fair Coordinator
ubymarineinc@icloud.com

Weller Elementary School is excited to be preparing for our annual school science fair on 9 March 2016. We would like to invite you to take part as a judge of the students’ science projects. Please check your calendar and let us know if you can/cannot participate. A

Judging begins at 8:45am and ends at 12:00 pm. Morning coffee and snacks will await your arrival at 8:45 for a brief informational meeting. Afterwards, lunch will be provided by our dynamic PTA. If you have any dietary needs, please let us know and we will be happy to accommodate you.

We are looking forward to your reply and hope that you will be available to join the team of scientists in our community by supporting our program. If you have judged in the past, thank you once again, and if you are new to us....welcome aboard! If you have a colleague who would like to be a part of this event, please forward us their name and contact information and we will add them to our volunteer list.

Thank you for your kind consideration. We are looking forward to seeing you at the annual Weller School Science Fair on Wednesday, March 9, 2016!

ABSTRACTS/PROFESSIONAL DEVELOPMENT

The Rural Policy Learning Commons (RPLC) Institutes Team is soliciting requests for support to attend the 2016 ICRPS summer institute in rural policy in Fairbanks, Alaska. Students and faculty can request support for the institute fee, though student support will be prioritized. Travel cannot be covered with this award. Please see attached for the application fee as well as for information about the Summer Institute.

Completed applications should be forwarded to Alysa Loring at ajloring@alaska.edu no later than March 23. Funding will be announced April 1.

Overview
The thirteenth International Comparative Rural Policy Studies (ICRPS) Summer Institute will take place in Fairbanks, Alaska, from the 14-26 July, 2016. The institute will convene for thirteen days and will involve approximately 30 graduate students
and numerous faculty members from universities around the world. Lectures will be supplemented with field trips, group work, and student presentations.

The ICRPS Summer Institute provides a unique opportunity for students from a range of OECD countries to meet and work together on comparative rural policy issues and make invaluable research and networking contacts. Faculty involved in ICRPS represent the disciplines of anthropology, economics, environmental studies, geography, indigenous studies, planning, policy studies, political science, and sociology.

2016 Summer Institute Details
The Summer 2016 Institute will be held at the University of Alaska Fairbanks, located in the heart of Alaska, only 200 miles from the Arctic Circle. Participants will be exposed to the challenges of the rural North, and will have the opportunity to experience Alaska’s diverse interior. Topics will include: the food, water, and energy nexus; health; environmental justice; renewable energy; climate change; and multiple ways of knowing. Field trips will be made to:

- Calypso Farm
- Chena Hot Springs
- University of Alaska Large Animal Research Station
- Alaska Cold Climate Housing Research Center
- Alaska Center for Energy and Power
- The UA Museum of the North / Morris Thompson Cultural Center
- World Eskimo Indian Olympics
- And optional excursions with the UAF Outdoor Adventures

For more detailed information about the 2016 Institute, please contact Alysa Loring (ajloring@alaska.edu), the Sustainable Futures North project manager, or the 2016 Institute Organizer, Dr. Philip Loring (phil.loring@usask.ca).

2016 Summer Institute Dates
14–26 July 2016

Eligibility
The program is open to graduate students from all disciplines at ICRPS-affiliated Universities. Spots are limited and if necessary, institutions will be limited with respect to how many students can attend to ensure equity across the network.

Costs
*Institute costs: $2000 USD (subject to minor changes). This includes room and board in a shared accommodation, field trips, and in-location transportation.
*Airfare: Participants are responsible for their own airfare; the cost will vary greatly depending on origin. PLEASE NOTE: Participants should plan to fly directly to Fairbanks, Alaska. The next nearest airport is in Anchorage, which is 360 miles (578 kilometers) away — a minimum 8-hour drive
*Transportation: To and from the airport, approximately $40 USD.
*Other personal expenses (souvenirs, optional excursions, etc.)

Apply to the ICRPS Summer Institute
Application forms for funding will be made available in February 2016. Interested students should contact Alysa Loring as soon as possible. Application Deadline: 23 March 2016.

ICRPS Summer Institutes History
The ICRPS Summer Institutes are held in North America and Europe in alternating years. Since 2004, over 300 graduate students from North America and Europe have benefited from the innovative blend of classroom instruction, rural visits, and research meetings.

The first ICRPS Summer Institute was held at the University of Guelph in 2004. Since then, it has been convened in Leuven, Belgium (2005); Brandon, Manitoba (2006); Barcelona, Spain (2007); Missouri, USA (2008); Inverness, Scotland (2009); Oregon, USA (2010); Songdal, Norway (2011); Rimouski, Québec (2012); Bertinoro, Italy (2013); Toluca, Mexico (2014); and
Dublin and Galway, Ireland (2015). The 2016 Summer Institute will be held in Fairbanks, Alaska, hosted by the University of Alaska Fairbanks and Sustainable Futures North.

Each institute connects faculty and international students in a dedicated learning environment. In addition, each institute is a combination of new and returning students, which enhances the mutual learning experience of both years. The program includes advanced topics and is an opportunity to develop Masters and PhD research programs as well as share research results with faculty and other students interested in rural policy.

Hello!
As part of the ESA Student Section leadership team this year, I have been organizing a horizon scanning initiative to stimulate long-term thought about how to 1) ensure ecology remains a successful and fulfilling career path and 2) increase the relevance of ecology to broader society by encouraging and supporting responsible environmental-decision making.

For the initiative to be successful, we need students and early career folks to submit the top challenges they expect to contend with as 21st century ecologists and the top opportunities they hope to capitalize on in their careers and outreach to society. These submissions are short (about the length of a tweet) and are very easy to do quickly. The submission deadline is April 1st.

I am writing to ask you: If you are a student or early career ecologist, Don't hesitate. Submit now and encourage everyone you know to do the same. You can submit at this website: http://www.esastudents.org/ecofutures-challenges-and-opps-submission

If you no longer qualify as student or early career, please forward this on to all you know who are.
Anyone interested can find more information about the initiative here: http://www.esastudents.org/ecofutures/

Thanks so much and if any questions, thoughts, or concerns arise, don't hesitate to bring them up.
Hope you are well,
Kind regards, Winslow Hansen

Alaska Rural Energy Conference
April 26-28, 2016
Westmark Fairbanks Hotel & Conference Center
For more information, please visit http://www.akruralenergy.org/
2/15/2016

National Park Service Centennial Science and Stewardship Symposium

In celebration of 100 years, the National Park Service Alaska Region will host the Centennial Science and Stewardship Symposium at the University of Alaska Fairbanks on October 19-20, 2016. The symposium will highlight how science and scholarship have shaped the past 100 years of national park management, and provide a forward look at the next century of collaborative science and scholarship in Alaska’s national parks. Sessions will feature research and stewardship in national parks and celebrate the partnerships essential to park management.

We invite all NPS employees and partners to submit abstracts for symposium presentations https://docs.google.com/a/alaska.edu/forms/d/159kwf0HWPgD-c4xIcnjb58ClnZxPmRoRHH52d4JC/viewform

Presentations may be on any topic relevant to science, scholarship and the management of parks. We encourage presentations that highlight applications of research to park management and emphasize interdisciplinary themes. Sessions will span the disciplines of natural resources, cultural resources, subsistence, education and outreach.
Presentations may take any of four formats:
*Plenary – These sessions feature topics or speakers of interest to all attendees and will be the only event at the time.
*Panel or Topical Session – These sessions feature a group of speakers who will discuss a topic of interest in front of an audience.
*Poster – This session features posters that highlight stewardship activities, research outcomes, or other topics relevant to park management. Posters will be on display throughout the 2-day symposium and researchers will be asked to accompany their posters during one 90-minute session.
*Workshop – These sessions take the form of training on techniques used to conduct or communicate science or introductory presentations on a technical topic.

Submit abstracts no later than 15 March, 2016. Authors of selected abstracts will be notified by April 1, 2016. Symposium proceedings will be published in a centennial issue of Alaska Park Science.

Please forward this request to any interested partners. Note that we are counting on you to reach out to your partner communities to inspire compelling presentations. Registration will be free to students and will cost $150 for other attendees. If you have questions about the symposium or would like to discuss a session idea, contact Whitney Boone whitneyboone@nps.gov

**INTERNSHIPS/FELLOWSHIPS/ EMPLOYMENT**

One-year Post Doc focused on Arctic Alaska Social-Ecological Integration: Northern Test Case of ACE Project - Alaska Adapting to Changing Environments

The Northern Test Case (NTC) of the Alaska Adapting to Changing Environments (ACE) project, an NSF EPSCoR study of University of Alaska, seeks a Post Doctoral Research Fellow for a one-year appointment to focus on integration and synthesis of project findings. ACE is a five-year project, now in year four, investigating i) Arctic landscape and land-use change, ii) changes in ecosystem services, and iii) the adaptive capacity of households and communities. The study involves 12 researchers, including hydrologists, ecologists, economists, anthropologists, policy analysts, modelers, and others. The regional focus is the North Slope of Alaska and the Inupiat community of Nuiqsut. For more information about ACE see: [https://www.alaska.edu/epscor/](https://www.alaska.edu/epscor/)

The post doctoral researcher will work with the Project PI and the team’s researchers to integrate project findings. The major effort will involve contributing to academic publications and engaging stakeholders at the Decision Theater North to discuss implications of study results. The post doc will be based at the Institute of Arctic Biology at the University of Alaska Fairbanks campus and employed for a one-year period. Start date is negotiable, but work should commence by June 2016.

The applicant should have excellent team-science collaboration skills and a PhD degree (already received, or having completed all requirements and waiting graduation) in a relevant discipline. Skills and/or knowledge in quantitative analysis, social-ecological dynamics, cross-cultural communication, GIS, and writing of academic publications are desired.

For more details on the position and how to apply see: [www.uakjobs.com/applicants/Central?quickFind=88815](http://www.uakjobs.com/applicants/Central?quickFind=88815)

If you have questions please contact Gary Kofinas at gary.kofinas@alaska.edu

**PhD Fellowship in nature-based tourism – Ref.no 16/00341**

The Department of Ecology and Natural Resource Management at the Norwegian University of Life Sciences (NMBU) has one vacant 3-year PhD-position related to analyses of Norwegian nature-based tourism markets. The position if funded by the Research Council of Norway’ s BIONÆR program.

Department of Ecology and Natural Resource Management (INA) has about 100 employees and undertakes teaching, research and dissemination within the fields of biology and ecology, nature management, renewable energy, nature based tourism and forest sciences. Currently the department has ca. 370 students, and about 50 PhD-students. The employees of the department are very active in their areas of expertise, both nationally and internationally and have a high level of production of scientific papers. For more information: http://www.nmbu.no/ina-en/

Research project
This position is part of the project BIOTOUR financed by the Research Council of Norway, that will analyse key conditions for development of the Norwegian nature-based tourism sector, thereby strengthening contribution to business innovation, community development and sustainable use of natural resources. The candidate will be part of a research team focusing on the current and potential demand for nature-based tourism products and services. The research will establish measures of existing markets, estimate the demand for new products, and undertake market segmentation analyses. The candidate will be co-supervised by staff at the Institute of Transport Economics (TØI) and the candidate will work in close co-operation with TØI researchers.

Main tasks
* Analyses of existing and new demand data for quantification of segments in nature-based tourism, including administration of survey designs and data collection
* Administration and analyses of surveys to measure stated preferences and choice among different product designs
* Complete a doctoral thesis in nature-based tourism at INA

The successful candidate is expected to start in August 2016, have a PhD plan approved by INA within the first months of appointment, and to complete the PhD by the end of the project period according to the instructions of NMBU. The candidate is also expected to plan and accomplish the PhD research in accordance with the milestones of the BIOTOUR project.

Academic qualifications
Required skills:
* The successful applicant must have a MS degree within a relevant scientific discipline
* The applicant must document expertise and interest in the research subject, including analyses of quantitative data

Desired skills:
* Ability to analyse information and research material in Norwegian language

Desired personal qualities
Personal characteristics important for the position are:
* Strong interest in nature-based tourism
* Motivated and enthusiastic about the research topic
* Good team worker and hard working

NMBU offers:
* A progressive academic institution with focus on professional development, dissemination and competence
* An interdisciplinary and inclusive environment that provides exciting research- and development opportunities
* Opportunities to be a team member in a large research project
* Contacts with inspiring students and skilled colleagues
* Various welfare schemes
* Beautiful surroundings just outside Oslo
Remuneration
The salary for a PhD-scholarship starts at wage grade 50 (equivalent to annual salary NOK 430 500) on the Norwegian Government salary scale upon employment and follow ordinary meriting regulations. For especially well qualified applicants, alternative salary placement could be considered.

Further information
For further information, contact Professor Peter Fredman, peter.fredman@nmbu.no
You may also contact RAP alum Stian Stensland stian.stensland@nmbu.no

Application
To apply online for this vacancy, please click on the 'Apply for this job' button above. This will route you to the University's Web Recruitment System, where you will need to register an account (if you have not already) and log in before completing the online application form. **Application deadline: 18.03.2016**

Applications should include (electronically) a letter of intent, curriculum vitae, full publication list, copies of degree certificates and transcripts of academic records (all certified), and a list of two persons who may act as references (with phone numbers and e-mail addresses). Publications should be included electronically within the application deadline. Printed material which cannot be sent electronically should be sent by surface mail to Norwegian University of Life Sciences, Department of Ecology and Natural Resource Management P.O. Box 5003, NO-1432 Ås, within 18.03.2016). Please quote reference number (16/00341).

If it is difficult to judge the applicant’s contribution for publications with multiple authors, a short description of the applicant’s contribution must be included.

A compulsory contribution of 2% is made to the Norwegian Public Service Pension Fund. A good working environment is characterized by diversity. We encourage qualified candidates to apply, irrespective of gender, physical ability or cultural background. The workplace will if necessary be facilitated for persons with disabilities.

According to the Freedom of Information Act § 25 the list of applicants for this position may be made public irrespective of whether the applicant has requested that his/her name be withheld.

Alaska EPSCoR ([http://www.alaska.edu/epscor/](http://www.alaska.edu/epscor/)) has limited funding to support RAP student internships summer 2016.
* Funds are for salary only ($4000/internship) and must be spent by June 30, 2016. A one page project report will be due July 31, 2016.

*Preference will be given to applicants from the 2015-2016 cohort who are partnering with tribal entities and who have research goals that align with Alaska EPSCoR goals. Secondary preference will be given to RAP students who have not received previous EPSCoR support.

To apply, please send Mary a 2-page proposal describing your internship (justification, location, collaborators, objectives, methods, deliverables) and indicate if you have other summer funding. We would like successful applicants to locate (i.e. leverage) matching funds to cover remaining summer salary and other logistics (i.e., travel, lodging, supplies), but it is not required. **Applications are due March 25, 2016.** Awards will be announced in early April 2016.

Graduate Student Internship Opportunity Summer 2016

The Human Dimensions Lab at the Water and Environmental Research Center (WERC-HD) is offering financial support in form of stipends for up to two graduate students for out of state internships focused on rural; water, energy or food policy.
To qualify students should have a fully planned internship, demonstrate support from their internship sponsor and support from their primary advisor. Products from the internship will include a short report and a 3-5 minute video documenting what you learned and how it is important to rural policy.

General Information:
Who: Up to two graduate students
What: Internships focused on rural policy
When: Summer 2016
Where: Outside of Alaska
Funding: Up to $7,000

Applications are due 5pm AKDT, March 15th 2016.
Email your application consisting of the following to the WERC-HD lab manager at stnorlin@alaska.edu • Curriculum Vitae
• Letter of support from primary academic advisor
• Letter of support from internship sponsor
• 2-3 page outline describing how proposed internship addresses rural policy
Please direct any questions about this opportunity to Alysa Loring ajloring@alaska.edu or or Dr. Philip Loring at ploring@alaska.edu
12/14/15

**GRANT OPPORTUNITIES/SCHOLARSHIPS/OTHER AWARDS**

**Alaska Native Engagement Grants**
Deadline is March 11

Alaska NSF EPSCoR will be awarding two grants of up to $20,000 each to UA faculty, staff, students or affiliates with proposals to actively partner with and engage Alaska’s Native populations, communities, and organizations within the goals of the Alaska EPSCoR program. Proposals are due March 11 and the award period runs from May 1, 2016 - January 31, 2017. More information and application at [http://www.alaska.edu/epscor/](http://www.alaska.edu/epscor/)

**URSA offers awards for innovative ideas**

UAF undergraduate and graduate students, faculty and staff are invited to apply for an Innovative Technology and Education Award of up to $10,000 from the Office of Undergraduate Research and Scholarly Activity.

The awards can be used for technology-related equipment or software associated with student-based instruction or research.

Funds must be spent by June 30, 2016. The **deadline to apply is March 18, 2016**.

For more information, please contact URSA at 907-450-8772 or [https://www.uaf.edu/ursa/](https://www.uaf.edu/ursa/)
2/15/16

**OTHER**

**Beginning January 19**
Entrepreneurs trying to start or expand a small business may benefit from a series of 11 workshops offered at the Small Business Development Center in Fairbanks and by webinar around the state.

The University of Alaska Fairbanks Cooperative Extension Service and the Alaska Small Business Development Center will host the series, which will also be offered by Web conference at the Anchorage district Extension office. Workshops will be offered from 5:30-7:30 p.m. Tuesdays, except for the Thursday, Jan. 28 session, and will run through April 5.

Extension economic development specialist Kathryn Dodge said the workshops will provide guidance to small business owners on budgeting, bookkeeping, insurance, taxes, payroll, marketing and more. Topics include:
### Business Workshops

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Each class costs $25. Register online at [http://bit.ly/ces-workshops](http://bit.ly/ces-workshops). The business development center in Fairbanks is located at 3750 Bonita St., in the Associated General Contractors building, and the Anchorage Extension office is at 1675 C St. Anyone who wishes to connect by desktop may contact Dodge at 907-474-6497 or kdodge@alaska.edu

More details about the classes are available at [www.uaf.edu/ces/sbd](http://www.uaf.edu/ces/sbd). Instructors will include accountant Kelly Ward, Grace Becker and Brittany Hale of Hale and Associates, consultant Nadine Winters, Charlie Dexter of the UAF Community and Technical College, and Dodge. Sponsors include the Fairbanks Economic Development Corp., the Small Business Administration, Robinson and Ward, the Fairbanks Chamber of Commerce and Alaska SCORE, a nonprofit organization dedicated to mentoring small businesses.

Please send suggestions, announcements, etc. to Mary van Muelken, [mavanmuelken@alaska.edu](mailto:mavanmuelken@alaska.edu)