Weekly RAP February 2, 2015

ALL RAP
Thursday, February 5
3:45 – 5:15 pm
Murie 107
Casey Brown
Kevin Hillmer Pegram
Larry Duffy and Todd Brinkman RAP updates

Monday, February 2
4:00 -5:00 pm
Elvey Auditorium, 214 Elvey Bldg (GI)
International Arctic Research Center Seminar
Igor Semiletov, UAF International Arctic Research Center

4:30 -5:30 pm
Murie Auditorium, 104 Murie Building
One Health / Biomedical seminar series, sponsored by the Department of Veterinary Medicine
Autonomic control of homeostasis: raphe and respiration
Kimberly Iceman, postdoc, Morsani College of Medicine, University of South Florida

Tuesday, February 3
10:00 -11:00 am
Webinar [or in person in the Mather Library conference room, Akasofu Bldg (IARC)]
Alaska Center for Climate Assessment and Policy (ACCAP) Climate Webinar Series
The climate has changed, have we? Reflections on 50 years of fire management in Alaska
Randi Jandt, Alaska Fire Science Consortium
Registration is strongly encouraged See http://accap.uaf.edu/webinars

1:00 – 2:00 pm
Globe Room, 213 Elvey Building
West Ridge Training Series
Google Suite: Effective Use of your UAF Google Account
Gary Bender from OIT will present on the tools available to UAF faculty, staff and students through their UAF Google account. He will cover the effective use of Google Docs, Sites, sharing documents with others in Drive, and much more. This is a great opportunity to learn about this time and paper saving option for online collaboration.

7:00 -8:00 pm
Westmark Gold Room, 813 Noble Street
Polar adventures: The voyages of the research vessel Sikuliaq
Michael Castellini, Associate Dean, UAF Graduate School
Science for Alaska Lecture Series 2015, sponsored by the UAF Geophysical Institute and Alaska EPSCoR
**Wednesday, February 4**
1:00 - 2:00 pm  
Vera Alexander Learning Center (201 O’Neill)  
SFOS Fairbanks Fisheries Seminar  
Subsistence salmon fisheries along the Yukon River: Issues for research and management  
Caroline Brown, ADF&G Subsistence Division  
5:30 – 6:30 pm  
Schaible Auditorium, Bunnell Building  
UAF Research Showcase: Introduction to Research and Creative Scholarship at UAF  
Volcanic gases: Insight into a volcano’s plumbing system  
Taryn Lopez, postdoc, UAF Geophysical Institute  
This series is sponsored by the Undergraduate Research & Scholarly Activity (URSA) office. Presentations are intended for a general audience and all are welcome.

**Thursday, February 5**
1:00 - 1:50 pm  
Chapman 106  
Department of Mathematics and Statistics Colloquium Lecture Series  
Most Powerful Bayesian Testing for Reproducible Science  
Scott Goddard, Dept. of Statistics, Texas AM University  
Scientific research is validated by reproduction of the results, but efforts to reproduce spurious claims drain resources. I focus on one cause of such failure: false positive statistical test results caused by random variability. Classical statistical methods rely on p-values to measure the evidence against null hypotheses, but Bayesian hypothesis testing produces more easily understood results, provided one can specify prior distributions under the alternative hypothesis. I describe new tests, UMPBTs and RMPBTs, which are Bayesian tests that provide default specification of alternative priors, and show that these tests also maximize statistical power. I then derive RMPBTs for linear models by restricting the class of possible alternative hypotheses to g-priors. An important feature of the resulting class of tests is that their rejection regions coincide with the rejection regions of usual frequentist F-tests, provided that the evidence thresholds for the Bayesian tests are appropriately matched to the size of the classical tests. This correspondence leads to the definition of default Bayes factors for many common tests of linear hypotheses. I illustrate the use of RMPBTs in the special cases of ANOVA and t-tests, and compare their performance to other Bayesian tests based on g-priors in various examples.

3:45 – 5:15 pm  
Murie 107  
All RAP  
**Applications of resilience theory in management of a moose–hunter system in Alaska**  
Casey Brown  
We investigated wildfire-related effects on a slow ecological variable, i.e., forage production, and fast social-ecological variables, i.e., seasonal harvest rates, hunter access, and forage offtake, in a moose–hunter system in interior Alaska. In a 1994 burn, average forage production increased slightly (5%) between 2007 and 2013; however, the proportional removal across all sites declined significantly (10%). This suggests that moose are not utilizing the burn as much as they have in the past and that, as the burn has aged, the apparent habitat quality has declined. Areas with a greater proportion of accessible burned area supported both high numbers of hunters and harvested moose. Our results suggest that evaluating ecological variables in conjunction with social variables can provide managers with information to forecast management scenarios. We recommend that wildlife managers monitor fast variables frequently, e.g., annually, to adapt and keep their management responsive as resources fluctuate; whereas slower variables, which require less frequent monitoring, should be actively incorporated into long-term management strategies. Climate-driven increases in wildfire extent and severity and economically driven demographic changes are likely to increase both moose density and hunting pressure. However, the future resilience of this moose–hunter system will depend on integrated management of wildfire, hunter access, and harvest opportunities.

**Indigenous visions for integrating cultural values with international capitalism through ecotourism: the case of Barrow, Alaska**
Kevin Hillmer Pegram

Radical theories from political economy assert that capitalism is founded on the creation of surplus value through the exploitation of human labor and natural environments. Such exploitative social and social-ecological relations are generally understood as contradictory to indigenous worldviews, which tend to emphasize reciprocity and community wellbeing over individual accumulation. Enter ecotourism, tantalizing in its promise as a ‘silver bullet’ for sustainable development because, when done right, it can generate economic activity without drastically damaging eco- and cultural systems. This study examines spaces of confluence and divergence between indigenous visions of ecotourism as a culturally-appropriate sustainable development tool with the imperative of the capitalist global tourism system—profit maximization—and uncovers how indigenous leaders reconcile the apparently contradictory worldviews. Understanding how indigenous leaders intend to capitalize on tourism to support cultural values may demonstrate an alternative, non-exploitative model for economic social and social-ecological relations. The research is carried out in Barrow, on the northernmost tip of Alaska, where rapid social-ecological changes include increasing visitor numbers. Local indigenous perspectives on developing ecotourism are documented via expert interviews, document analysis, and participant observation at scenario building workshops.

6:00 - 7:00 pm
UA Museum of the North
Museum Discovery Series
Alaska’s marmots: Known knowns and unknown knowns
Link Olson, UAMN Curator of Mammals
Part of the Museum Discovery Series, a series of free interactive programs that feature specimens and discoveries from UAMN’s collections. Museum opens at 5:30 p.m. and program starts at 6 p.m

7:00 pm
Morris Thompson Cultural and Visitors’ Center, 101 Dunkel St.
Artist talk, with Sarah DeGennaro, who will share her experience in the White Mountains National Recreation Area for her winter 2014 residency, where she created paintings and drawings reflecting her surroundings.
Free.

**Friday, February 6**
3:00 - 4:30
531 Duckering Building
Hydrograph partitioning of a sub-arctic glacial watershed, Interior Alaska: A geochemical analysis
Tiffany Gatesman, graduate student

3:30 – 5:10 pm
201 Reichardt Building
Department of Geosciences Seminar
Coring into the top of a rhyolite magma body
John Eichelberger, Dean, UAF Graduate School
3:30 - 5:00 pm
214 O’Neill Building
By VCON from Juneau
SFOS Fisheries Division, Juneau Center Seminar
Economic development: Applying an interdisciplinary fisheries education
Matt Catterson, State of Alaska Division of Economic Development

**Saturday, February 7**
Noon – 4:00 pm
UA Museum of the North
UAMN Family Day—Mammals
Become a junior mammalogist for the day. Observe lab work, explore rodents, look at BIG bones, compare skulls and feet, track in the galleries, make fun crafts, and more. Scientists from the museum’s mammal department will be on hand to answer questions. Kids 14 & under are free on Family Days. Parking is free on weekends.
See [www.uaf.edu/museum/education/kids-families/family-days/](http://www.uaf.edu/museum/education/kids-families/family-days/) for additional information
Coming up
Friday, February 20
5:00 – 8:00 pm
Murie Building
smART Celebration
- Meet the Murie Building artists
- Live Music by Ensemble 64B
- Open labs and hands-on science activities for all ages
- Student art exhibit by the Biology Graduate Student Association

ABSTRACTS/MEETINGS/PROFESSIONAL DEVELOPMENT

2015 Arctic Energy Summit call for presentations
Abstracts due by February 27, 2015
Summit dates: September 28-30 * Fairbanks, Alaska
Registration open at www.arcticenergysummit.com

The Institute of the North’s 2015 Arctic Energy Summit builds on our legacy efforts to address energy as a fundamental element of the sustainable development of the Arctic; a region that can be described as a lasting frontier. The Summit’s themes of Security and Affordability frame this appropriately, and build on the 2013 Summit’s proposition of Resilience. We invite subject matter experts to submit abstracts for technical presentations, workshops, or moderated panel discussions at the 2015 Arctic Energy Summit. Abstracts should respond to these themes of Security and Affordability, and to one or more of the issues listed below.

Oil and Gas Exploration and Production
Effective governance, regulatory systems and risk management
Global insecurity – price and climate change, uncertainty related to data
Nested land, resource, infrastructure ownership; economic modeling and public private-partnerships
Industry-led HSE initiatives; stakeholder engagement models; inclusion of traditional knowledge
Accessing markets via emerging maritime routes, cross-border rail and pipelines
Impact benefit arrangements and collaborative research
Defining prudent development and building human capacity
Innovative extraction and applied research and technology
Business of Clean Energy

Economics and government fiscal policy; new financing models or co-investment in projects
System efficiency and demand-side management; retro-fitting community projects
Applied research resulting in adoption of innovative or emerging energy technology
Government fiscal support for renewable energy and energy efficiency
Lessons learned from policies that facilitate renewable energy adoption
Assessment of renewable energy sources, including a development and distribution roadmap
Best engineering, architecture and design practices for northern energy efficiency and weatherization
High and low penetration of electricity; hybridization; transmission
Remote Community Heat and Power

Power supply and grid reliability – integrated power systems and micro-grid technology
Benefits to local communities from projects; conservation; and value-added energy enterprises
Impacts of grid connectivity to social and economic development
Methods for developing a dedicated region-wide financial vehicle to support community resilience
Scenarios planning and risk assessment of development and transportation of energy resources
Energy regulatory regimes impact on social, economic and cultural systems
Models for community or regional utilities; system efficiency
Communicating remote challenges to urban majorities
Keep in mind, too, that the organizing committee is especially interested in presentations that showcase:

Specific collaborations between academia, industry and government
Building on what we know and learning from experience
Increasing effectiveness of extraction, delivery, provision
Micro-scale solutions for communities or public infrastructure
Evaluating differences and working toward common approaches
Pan-Arctic standardization of regulations, policy, workforce development

Abstracts should be submitted no later than February 27, 2015 (and earlier as possible) for inclusion in the program. Authors will be notified of acceptance no later than March 15. A draft agenda will be developed and shared with presenters in April. Abstracts should be not more than two pages in length, and include:

Principal speaker (key author or investigator) and associated speakers (if others are included in the presentation, depending on format) – name, title, organization/company, contact information
Proposed title and (presentation, workshop, panel, poster)
Relation to themes – Security, Affordability – and Relation to at least one of three discussion areas
Upstream Oil and Gas Production
Business of Clean Energy
Remote Community Heat and Power
Short description (fewer than 200 words) - this will appear in the conference program if the abstract is accepted.
Justification – Why is this important to attendees? (fewer than 100 words)

Format
Presentation Proposals - Technical presentations will each be scheduled for a 15 minute presentation with 5 minutes for questions. These presentations can meet any one of the following formats: Original Research; Work in Progress; or New Ideas.

Panel Proposals - Proposals should describe dedicated panels dealing with trending and challenging topics and paradigms. Invited panel moderators must include in their abstracts: their background, panelist names, their affiliation, the topic of the panel, as well as short biographies of the proposed panelists.

Workshop Proposals - The proposed workshop format should be interactive in nature and designed to engage participants in more deeply thinking and discussing a topic. Organizers encourage a format that includes presentation of an issue or challenge and encourages solution-oriented thinking.

Poster Presentations - A poster presentation session will begin during the first evening’s reception and will be on display until the end of the Summit. Posters should convey specific technology or policy innovations. Posters will be displayed in the form of PowerPoint slides and limited to three slides.

More about the Summit: The Arctic Energy Summit is a multi-disciplinary event expected to draw hundreds of industry officials, researchers, policy makers, energy professionals and community leaders together. Media will be present; sessions will be recorded and video and presentation materials posted online. A final report will include highlights of each session, as well as that session’s contribution to the themes. The outcomes from the Summit will include a report to the Sustainable Development Working Group of the Arctic Council, whose interests include remote community power and heat solutions, as well as the impact of energy development on communities.

INTERNSHIPS/FELLOWSHIPS/ EMPLOYMENT
OREGON STATE UNIVERSITY, HUMAN DIMENSIONS OF FISHERIES AND WILDLIFE
ASSISTANT PROFESSOR, TENURE TRACK (9-month, 1.0 FTE)
The Fisheries and Wildlife Department (Corvallis, OR) seeks a collaborative tenure track Assistant Professor in Human Dimensions of Fisheries and Wildlife Management. Visit the application web site for the full posting and application details [http://oregonstate.edu/jobs/](http://oregonstate.edu/jobs/) posting # 0013457. This is a full-time position with responsibilities for teaching, advising, research and outreach in the human dimensions of fisheries and wildlife conservation. The appointee will teach three undergraduate classes annually, one graduate course every other year, and will advise students at both levels. Courses will include offerings on campus, online, or in some combination. Research should relate to understanding the attitudes, values, ethics, behaviors, and roles of diverse publics associated with complex fish and wildlife resource issues. In all duties the faculty member is expected to demonstrate cultural competence and to exercise their knowledge and skills related to multicultural perspectives. **For full consideration, applications must be received by February 9, 2015.**

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**Climate Change Coordinator position in the Department of the Interior**

WASHINGTON, D.C. (January 26, 2015) —Assistant Secretary for the Insular Areas Esther Kia’aina has established a new Climate Change Coordinator position in the Department of the Interior to help leaders of the U.S. insular areas plan and prepare for the impacts of climate change in their respective jurisdictions. This position, which is now open for applications, has been established as part of a Department-wide effort to implement Executive Order 13563 and the President’s Climate Action Plan to prepare the United States for the impacts of climate change by building a more climate-resilient America and leading international efforts to address the threats of climate change. The applicant will work closely with senior leadership at Interior and collaborate with other federal agencies to help the insular areas develop robust responses to the effects of climate change.

“The people of the insular areas, both in the Pacific and the Caribbean, are increasingly vulnerable to climate change threats to their infrastructure and natural resources, including sea-level rise, coral bleaching, and salt water intrusion all of which impact quality of life and destabilize food and fresh water sources,” said Assistant Secretary Kia’aina. “We want to strategically collaborate and leverage the various federal initiatives and funding sources by working with the insular areas on strengthening or implementing their climate change adaptation plans.”

Interested applicants for the position of Climate Change Coordinator should have demonstrated experience in insular areas issues and climate change policies, preparedness, or adaptation plans. They must also possess excellent written and oral communications skills and the requisite skills to evaluate climate change funding proposals and conduct public outreach efforts. **The application period is open today, Monday, January 26, through Monday, February 9, 2015.** Interested applicants may apply online through USAJOBS at links listed below.


The Department of the Interior is responsible for coordinating federal policy with respect to the territories of American Samoa, Guam, the U.S. Virgin Islands, and the Commonwealth of the Northern Mariana Islands, and administering and overseeing U.S. federal assistance provided to the Freely Associated States of the Federated States of Micronesia, the Republic of the Marshall Islands, and the Republic of Palau under the Compacts of Free Association. The Office of Insular Affairs mission is to foster economic opportunities, promote government efficiency, and improve the quality of life for the people of the insular areas.

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**Social-Ecological Modeling of Resilient Landscapes Post-doctoral Appointment – Rutgers/USDA Forest Service**

Rutgers, The State University of New Jersey, and the New Jersey Agricultural Research Station, through the Department of Ecology, Evolution and Natural Resources, invites applications for a 18 month-2 year post-doctoral appointment as part of the Center for Resilient Landscapes collaboration with the USDA Forest Service (USDA-FS), beginning as soon as February 2015 [http://crl.rutgers.edu](http://crl.rutgers.edu).
The appointee will work on developing an applied socio-ecological simulation model of governance and ecological processes to better address current and future challenges in forest resilience in the face of changing human development and climate regimes. The postdoc will work with faculty and scientists from both organizations to develop a line of research focused on the study of disturbance regimes prevalent in New Jersey and the surrounding region, which could include: fire in the wildland-urban interface (WUI), extreme storm events, developmental pressures, pests and invasive species, and changing economies and markets. The successful candidate also will work with project leaders to develop an institutionally blended, cross-disciplinary team broadly bounded by forest resilience and management practice across the WUI and within the developed and developing landscapes in the urbanized coastal regions of the United States.

This appointment will be based in New Brunswick, NJ on the Rutgers Cook Campus, but will be part of a developing team of faculty and USDA-FS scientists whose main objective is to study urban natural resources stewardship and the development of social-ecological system resilience, from short-term recovery, to longer-term restoration, to fundamental system reorganization. The research and collaborative team is expected to have a regional focus and will develop programmatic linkages throughout (but not limited to) the Silas Little Experimental Forest; the USDA-FS Urban Field Station network; the Rutgers campuses in New Brunswick, Newark and Camden; and other regional university programs, as opportunity allows. Centrally located between the USDA-FS Urban Field Stations of Philadelphia and New York City, there will be opportunities to form collaborative relationships across and between locations. Applicants with a broad range of disciplinary backgrounds will be considered, including geography, computational sciences, entomology, ecology, plant pathology, forestry, horticulture, environmental sociology, planning, and natural resource management.

Specific responsibilities will include:
* Developing or adapting a socio-ecological model of landscape-level disturbance(s) that can be applied to the New Jersey landscape.
* Working with Rutgers and USFS project members to assemble a broad scientific team focused on study design, implementation and/or publications.
* Identifying and pursuing outside funding sources.
* Leading technology transfer efforts and authoring peer reviewed publications.
* Leading strategic development of the research program in conjunction with expert panels and/or advisory groups.

Requirements include:
* PhD in geography, natural resources, biology, ecology, forestry, statistics, mathematics or related field at time of appointment.
* Strong quantitative or computational skills.
* Interdisciplinary, socio-ecological background.
* Excellent oral and written communication skills.
* An ability to work both independently and in a collaborative team.

Preference will be given to candidates with expertise in the following areas:
* Experience with developing applied, integrated socio-ecological models (e.g., agent-based model, systems dynamics model).
* Experience working with and/or developing decision support tools.
* Computer programming abilities (e.g., R, python, MatLab, agent-based modeling software like MASON)
* Demonstrated written & verbal communication skills for scientific & practitioner audiences.
* Demonstration of strong collaborative and creative team building skills.

Salary and benefits:
A fellowship stipend will be the equivalent of $50,000 per year with a competitive benefits package: http://uhr.rutgers.edu/policies-resources/faqs/faq-postdoc-fellow-health-insurance

Letters of interest should include a CV, a one- to two-page research statement, highlighting the modeling approach the candidate might apply to this postdoctoral appointment, and three letters of recommendation.
These can be submitted to:

Dr. Jason Grabosky  
14 College Farm Road  
New Brunswick, NJ 08901  
grabosky@aesop.rutgers.edu

Application materials may be submitted electronically via e-mail, with the subject heading: “last name USDAFS-RU Pdoc”.  
**Application materials should be submitted by March 1, 2015** for an April 2015 start date, but the application period will remain open until a suitable candidate is identified. The start date is negotiable and could begin as late as June or September 2015.

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**Postdoctoral Fellowship: Agricultural decision making in Africa**

**Job Description**

The Ostrom Workshop in Political Theory and Policy Analysis is seeking a postdoctoral fellow to take a leadership role in the development of work on agricultural decision-making on an NSF project funded through the Water, Sustainability and Climate program. The candidate will work with an interdisciplinary team of scientists to develop her/his own research on the project and be given an opportunity to gain experience in large-team based interdisciplinary research and field research in Africa and multi-method analysis of food and water security. We are seeking a talented, creative, motivated postdoctoral fellow who wants to make a positive impact on the world, while advancing their careers in this exciting new area of study.

**Essential Duties**

This position will involve: 1) household survey, interview and experimental research that will lead to understanding agricultural decision-making of smallholder farmers in Kenya and Zambia, 2) coordinating field teams including graduate students and in-country collaborators, 3) analyzing data and publishing results stemming from this work. The position is focused on collecting and analyzing data related to vulnerability, adaptive capacity, perceptions, environmental decision-making, risk and uncertainty in agricultural contexts. Multi-method analysis will contribute to the development of mental models of agricultural decision-making by smallholders.

**Qualifications**

Must have a doctorate in a program providing interdisciplinary training (preferably related to environmental decision-making) and have a desire to conduct field research in Kenya and/or Zambia. Strong record of scholarly achievement, ability to work effectively in interdisciplinary teams. Ability to conduct or oversee statistical analysis of survey and related data. A PhD in any of the following fields is advantageous but not required: applied economics, agricultural economics, psychology, cognitive science, or geography. Experience with the following methodological tools is a plus: GIS, spatial modeling, statistical analysis, relational database structures or econometrics. Prior experience conducting fieldwork in developing countries.

**Administrative and Project Information**

The Ostrom Workshop is an interdisciplinary research center at Indiana University with substantial research program on environmental decision-making and governance. This position is associated with a project titled “Impacts of Agricultural Decision Making and Adaptive Management on Food Security” that is a joint $3.6M project between Indiana University and Princeton University.

**To apply:**

Submit the following materials: 1) a cover letter providing a brief explanation of fit for the position, 2) a CV, 3) sample of up to 3 examples of scholarly writing (journal articles, dissertation chapters), 4) the name, email address and institutional affiliation/position of three references. Only electronic applications will be accepted. **Applications must be received by February 23, 2015. Start date is May or June 2015.**

Interested candidates should review the application requirements and submit their application at:
Questions regarding the position or application process can be directed to: Tom Evans, Ostrom Workshop in Political Theory and Policy Analysis, Indiana University, 513 North Park, Bloomington, IN 47401, evans@indiana.edu.

**Deadline to apply:** Applications will be accepted until the position is filled.

Indiana University is an equal employment and affirmative action employer and a provider of ADA services. All qualified applicants will receive consideration for employment without regard to age, ethnicity, color, race, religion, sex, sexual orientation or identity, national origin, disability status or protected veteran status.

Department of Geography
Indiana University
Bloomington, IN 47405
Email: evans@indiana.edu
http://pages.iu.edu/~evans
http://www.indiana.edu/~workshop
http://www.indiana.edu/~cipec

Tanana Chiefs Conference in partnership with the Gwichyaa Zhee Gwich’in Tribal Government is submitting a proposal for Phase II of a greenhouse project in Fort Yukon. One aspect of this proposal will include funding for the completion of a production and operations plan for the greenhouse. This could be an ideal graduate project for someone who is interested in sustainable food systems and high latitude agriculture research with an applied research component. More information about the project is attached. Please contact Krista Heeringa, kmheeringa@alaska.edu before February 13 for more information. A pdf describing the project is attached to this email.

The Center for Environmental Farming Systems (CEFS) Summer Internship in Sustainable Agriculture, based in Goldsboro, NC started in 1999 and has attracted students from a wide variety of backgrounds and majors from across the country and the world. This eight-week internship program (June 9 – July 31, 2015) provides undergraduate students with experience in various aspects of sustainable agriculture from expert faculty and staff at CEFS and through hands-on farm work, lectures and discussions, community engagement, and field trips to local farms and markets. The goal of this program is to provide experiential learning opportunities through collaboration with faculty from North Carolina State University (NCSU) and North Carolina A&T State University (NCA&T SU) and farm staff from the North Carolina Department of Agriculture and Consumer Services (NCD&A&CS). Interns will become familiar with farming practices that promote

- Strong local food system networks;
- Agricultural production systems of animal and crops that efficiently use energy and water in the biological systems;
- Efficient use of nutrient cycling in production systems;
- Diverse complementary production systems and season extension techniques;
- Community gardens for food and education in good food choices;
- Use of organic crop rotations, crop/animal integration, and natural systems for animal production.

The internship combines topical subject matter with real-world, hands-on agricultural experience and problem solving through various field trips to farms, markets and community sites. As part of their research experience, each intern will be mentored by NCSU, NCA&T SU and NCD&A&CS faculty and staff from a variety of fields working in sustainable agriculture at CEFS. Students will also have the unique experience of learning about community food systems as they visit and work with a variety of community members in town of Goldsboro.

Student interns will receive 6 credit hours from NCSU (CS 492) for the internship program.

**All applications for the CEFS Summer Internship Program must be RECEIVED by Monday, March 2, 2015.**

For more information, please visit our website: http://go.ncsu.edu/2015_internship

Assistant Professor Tenure-track Position
First Nations Studies Department
College of Arts, Social and Health Sciences
University of Northern British Columbia
The University of Northern British Columbia, in conjunction with the First Nations Studies Department, invites applications for an Assistant Professor (tenure-track position) with an anticipated start date of July 1, 2015. The First Nations Studies Department offers an interdisciplinary program that includes contemporary issues, health, gender, governance, traditional ecological knowledge, languages and culture, spirituality, art and material culture, and community research. The Department seeks applicants with demonstrated research and teaching success within First Nations Studies. The successful candidate will possess the knowledge and experience necessary to teach undergraduate and graduate courses as well as supervise graduate students. The successful candidate will contribute to the First Nations Studies Department mandate to foster understanding of the diversity and strengths of Aboriginal peoples in Canada and abroad. Experience working or living in an Aboriginal community and the ability to speak an Aboriginal language are considered assets. The ability to work collaboratively across one or more disciplines is also considered an asset.

Applicants must have a PhD in a relative discipline, or have completed all the components of a PhD, prior to the start date of July 1, 2015. **Applications received on or before February 27, 2015, will receive full consideration;** however applications will be accepted until the position is filled.

Applicants should include a letter indicating potential contributions to the department, curriculum vitae, one sample of scholarly work, and the names and addresses of three references (including telephone, fax, and email information) quoting competition # FAFN24-14 to: The Office of the Provost, University of Northern British Columbia, 3333 University Way, Prince George, B.C., V2N 4Z9. Fax: (250) 960-5791. Please direct inquiries to: Dr. Ross Hoffman, Chair of the First Nations Studies Department, at Telephone (250) 960-5242, Email hoffmanr@unbc.ca. This position is being advertised subject to budgetary approval. Electronic submissions of CVs can be forwarded to: FacultyRecruitment@unbc.ca.

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority. The University of Northern British Columbia is committed to employment equity and encourages applications from women, aboriginal peoples, persons with disabilities and members of visible minorities.

The University of Northern British Columbia is ranked as one of Canada’s best small research universities with a core campus in Prince George and regional campuses throughout northern BC. UNBC has long established partnerships with many First Nations Bands and Tribal Councils. There is a strong support system for students, including the First Nations Centre, an innovative Peer Support Network, the Northern Advancement Program and other academic and cultural bridging programs. Currently there are over 3500 students enrolled in more than 40 undergraduate and graduate UNBC degree programs throughout northern BC. For more information on the First Nations Studies Department, please visit [http://www.unbc.ca/firstnations/](http://www.unbc.ca/firstnations/).

The National Socio-Environmental Synthesis Center (SESYNC), in collaboration with NSF’s Long Term Ecological Research (LTER) program, invites applications for two-year Postdoctoral Synthesis Fellowships that will begin August 5, 2015. [http://www.sesync.org/opportunities/sesync-lter-synthesis-postdoctoral-fellowships](http://www.sesync.org/opportunities/sesync-lter-synthesis-postdoctoral-fellowships)

**Synthesis** is a research approach that accelerates knowledge by distilling or integrating existing data, ideas, theories, and methods to draw more reliable or generalizable conclusions and to reveal novel areas of study. Synthesis often involves merging large or heterogeneous data sets from multiple sources, researchers, or fields of inquiry, as well as critical analysis in evaluating arguments and interpreting evidence. It can employ a diverse array of theoretical and methodological approaches (e.g., statistical/mathematical, structured case studies comparison, scenario studies, game theory, organizational theory, simulation/computational modeling).

**Synthesis of long-term data sets, on-going experiments, and model results is an important goal of NSF’s LTER program. These syntheses can provide new research findings, derived data sets, and new models that establish future research**
directions and guide the development of environmental policy. The 25 current LTER projects collect long-term data in five core areas, and these are among the topics ripe for data discovery, analysis, visualization, and synthesis by SESYNC–LTER Postdoctoral Synthesis Fellows. A key element of successful Postdoctoral Fellowship applications will be the identification of specific research questions and how they will be addressed using synthesis methods with these data. Applications should identify the sources and accessibility of existing data and the theoretical and analytical methods to be used. Prospective Fellows should not propose projects that require collection of new data.

Fellowships will engage and assist early-career investigators in the use and analysis of existing long-term data and in advanced computational methods to ask new questions and initiate new research collaborations. Fellows will identify long-term datasets that form the foundation for these syntheses. These must involve LTER data, but applicants are encouraged to include additional long-term data collected for projects outside of the LTER network as well. Proposed projects can focus on ecological or interdisciplinary questions. All types of projects may be proposed, including those that synthesize data across LTER sites and those that synthesize natural and social science data.

**Preliminary Screening**

Interested applicants must first submit a pre-screening application. To be eligible for the Fellowship, prospective Fellows must have received their PhD in an appropriate discipline (e.g., ecology, ecosystem science, statistics) within the past five years: no earlier than June 1, 2010, and no later than June 1, 2015. If the applicant has not received his or her PhD at the time of submission, a letter from their graduate advisor or a committee member must be included. The letter should verify expectations for date of degree completion. Candidates who are offered a fellowship but do not complete their PhD by June 1, 2015, will have to reapply.

Fellowships are open to recent PhD recipients who are citizens of the United States.

To submit a pre-screening application, please go to [www.sesync.org/forms/sesync-lter-synthesis-postdoctoral-fellowships](http://www.sesync.org/forms/sesync-lter-synthesis-postdoctoral-fellowships)

Applicants must include a CV. If the applicant has not yet received his or her PhD, a verification letter must be included as described above.

**Pre-screening applications are due February 2, 2015, 5 p.m. Eastern Standard Time (EST) but will be accepted on a rolling basis before then.**

Please contact:
Cynthia Wei, SESYNC Assistant Director of Education and Outreach: [cwei@sesync.org](mailto:cwei@sesync.org)
Robert Waide, LNO Executive Director: [rwaide@lternet.edu](mailto:rwaide@lternet.edu)
The University of Maryland is an Equal Opportunity Employer. Minorities and Women Are Encouraged to Apply.

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**The Fulbright Arctic Initiative**

*The Fulbright Arctic Initiative seeks to create a network to stimulate international scientific collaboration on Arctic issues while increasing mutual understanding between people of the United States and the people of other countries.*

**Application Deadlines:**
Norwegian Applicants - Monday, February 2, 2015
U.S. Applicants - Monday, February 16, 2015

The Fulbright Arctic Initiative will support a team of scholars and researchers from the Arctic Council member countries to research and assess the impact of change in the Arctic and engage in collaborative thinking, analysis and problem solving. Scholars will come from different countries and different fields but will share a commitment to working together to understand and address Arctic issues.

The Fulbright Arctic Initiative will take place over an 18-month period in 2015-2017, coinciding with the United States’ chairmanship of the Arctic Council. Selected scholars will participate in an individual Fulbright exchange of up to two months, as well as in-person seminars and ongoing virtual communication, all supporting the scholars’ collaborative
research projects. Scholars will focus on collaborative work in multidisciplinary and multinational research teams, and will propose and carry out an individual exchange element. Areas of research focus will include:

* Energy: How will oil, gas, and other natural resources be developed in the Arctic? What can be done to promote clean renewable energy, reduce pollutants, guarantee the inclusion and rights of indigenous people, and protect the environment?

* Water: How can we understand, mitigate, and adapt to the dramatic changes occurring and projected for the Arctic Ocean environment and fresh water regimes, such as changes to fisheries, oil spills, the emergence of invasive species, and shifts in the food supply for local communities?

* Health: What specific issues do coastal communities face, such as erosion and storm surge, subsistence activities and food supply, availability of medical care, transportation, telecommunications, protection and continuity of their identities as indigenous peoples? What opportunities and vulnerabilities can be addressed for the sustainability of affected communities?

* Infrastructure: How can we rethink ports, pipelines, freshwater storage and treatment, and other infrastructure and security issues? What measures and policies should be developed to promote multi-national cooperation on search and rescue, emergency environmental response, and safe shipping?

Successful candidates will include scholars at all career stages, applied researchers or professionals active in the academic, public or private sectors that demonstrate outstanding qualifications and a record of experience and accomplishment in an area clearly related to one of the designated research themes.

Applicants must be:

* Conducting current research relevant to the program's themes and objectives
* Open to exploring and incorporating comparative, interdisciplinary approaches in their investigations
* Interested in developing collaborative activities with other Fulbright Arctic Initiative Scholars

Eligibility requirements [http://www.cies.org/program/fulbright-arctic-initiative](http://www.cies.org/program/fulbright-arctic-initiative)

Timeline

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<td>Fulbright Arctic Initiative Scholar Competition Opens</td>
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<td>February 2, 2015</td>
<td>Visiting Scholar Application Deadline</td>
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<td>February 16, 2015</td>
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<td>April 2015</td>
<td>Finalists notified of selection decisions</td>
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<td>First group meeting and orientation</td>
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**GRANT OPPORTUNITIES/SCHOLARSHIPS/OTHER AWARDS**

The DOE Office of Science is pleased to announce that the Office of Science Graduate Student Research (SCGSR) program is now accepting applications for the 2015 solicitation. **Applications are due 5:00pm ET on Tuesday April 14, 2015.** The SCGSR program supports supplemental awards to outstanding U.S. graduate students to conduct part of their graduate thesis research at a DOE national laboratory in collaboration with a DOE laboratory scientist for a period of 3 to 12 consecutive months—with the goal of preparing graduate students for scientific and technical careers critically important to the DOE Office of Science mission. The SCGSR program is open to current Ph.D. students in qualified graduate programs at accredited U.S. academic institutions, who are conducting their graduate thesis research in targeted areas of importance to the DOE Office of Science. The research opportunity is expected to advance the graduate students’ overall doctoral thesis while providing access to the expertise, resources, and capabilities available at the DOE laboratories. The supplemental award provides for additional, incremental costs for living and travel expenses directly associated with conducting the SCGSR research project at the DOE host laboratory during the award period. The Office of Science expects to make approximately 100 awards in 2015, for project periods beginning anytime between October 2015 and September 2016. Detailed information about the program, including eligibility requirements and access to the online application system, can...
ANNOUNCEMENT OF TRAVEL GRANT OPPORTUNITY FOR SPRING/SUMMER 2015

The UAF Graduate School announces an opportunity for graduate students in good standing to apply for grants to partially cover expenses for travel that will substantially further their education. These funds are provided by the Graduate School to enhance the graduate education experience of our students.

Guidelines are as follows:

• Students enrolled in Master’s and Doctoral degree programs are eligible.
• Students must be in good academic standing (GPA >3.0 and all Graduate School paperwork current and on file with the Graduate School).
• Travel must be to present a paper at a professional meeting or workshop, participate in an art or musical performance, attend a field school, or undertake some critical collaboration that must be face–to–face. The trip should contribute directly to the student’s graduate education, research, and/or acquaintance with her/his broader professional community.
• Travel must begin on or after March 1, 2015 but not later than June 30, 2015.
• Funds will be transferred to the student’s department when the application is approved so that they can be used to purchase tickets and/or pay registration fees prior to the trip. (If the student does not take the trip, the funds should be returned to the Graduate school.)
• The amounts available will be as follows: $500 for meetings within Alaska (exception: $1000 for field schools within Alaska); $1000 for trips within the US and Canada; $2000 for international travel.
• Applications are due as soon as possible but no later than close of business Friday, February 13, 2015 and will be reviewed by the selection committee as quickly as possible thereafter.
• Because funding is limited this year, we will likely have to restrict awards to a few applications of exceptional merit.
• Some students have requested making the list of awardees public. The application form provides a place to check if you agree to be listed as an awardee if you are successful. Whether you agree or not will have no effect on the decision about your application. Please read the entire set of instructions before proceeding to the electronic form.

Application procedure (paperless):

• Fill out this form https://docs.google.com/a/alaska.edu/forms/d/1BVve7g49oOto9qoliPRWPKveqelhB_M3dZNO5Y0oSW4/viewform . Note that there are two sections adapted from the normal NSF review procedure: Intellectual merit: What new things will you learn and/or what original results, concepts, or methodology will you contribute? Why are you especially qualified to take advantage of this opportunity? Broader impacts: How do you expect this trip to benefit your career and the work of colleagues with whom you will be interacting? What is the potential benefit to others in your program here at UAF?
• Attach an e–file of a flyer or other document/URL describing the meeting, performance event, or field school.
• Attach an e–file memo from your advisor endorsing your application and stating that you are making fully satisfactory progress towards your degree.
• Submit the application to the Graduate School. If you have questions, please call or email Juan Goula at 474–5960 or jagoula@alaska.edu.

This grant will likely be less than your actual expenses. The intent is to make it feasible for many students to travel, not to pay the entire cost for a few. You are responsible for obtaining the balance needed, which may include using your own funds.

The Alaska Space Grant program is currently soliciting proposals in the Higher Education and Pre-college Education program areas. The goal of the Higher Education program is to contribute to the development of the science, technology, engineering, and mathematics (STEM) workforce in disciplines needed to achieve NASA’s strategic goals. Alaska Space Grant seeks to meet this goal by funding Higher Education Projects that:

* Assist faculty with the development of new (or revised) college-level courses or curriculum in areas of relevance to NASA.
* Provide support for interdisciplinary student team activities in areas that support NASA’s workforce needs.

* Competition is open to full-time faculty members at an Affiliated Institution.
*Faculty must be U.S. citizens. Faculty who are not U.S. citizens may apply for the grant to supply salary or other support for students (who are U.S. citizens) working on the project.
*Faculty must hold the rank of assistant professor, associate professor, professor, research associate, full-time faculty/instructor at a community college, or equivalent (adjunct faculty members and post doctoral fellows are not eligible). [http://spacegrant.alaska.edu/Funding/HigherEd](http://spacegrant.alaska.edu/Funding/HigherEd)

The goal of the **Pre College Education** program is to attract and retain students in STEM disciplines through a progression of educational opportunities for students, teachers, and faculty. Alaska Space Grant seeks to meet this goal by funding Pre College Projects that:

*Provide in-service and/or pre-service teacher professional development and training opportunities to educators that result in deeper content understanding and/or competence and confidence in teaching STEM disciplines
*Provide k-12 students with authentic, first-hand opportunities to participate in NASA mission activities, and/or other NASA related STEM activities. Proposed student-focused projects must describe how the effort will demonstrate (quantitatively and/or qualitatively) increased enrollment in STEM disciplines or interest in STEM careers.
*Competition is open to personnel at Affiliated Institution.
*All participants receiving direct support must be U.S. citizens. [http://spacegrant.alaska.edu/Funding/PreCollege](http://spacegrant.alaska.edu/Funding/PreCollege)

Women, faculty from underrepresented groups, and early career faculty are especially encouraged to apply.

**ACCAP mini-grant applications due February 5**
The Alaska Center for Climate Assessment and Policy (ACCAP) is now accepting proposals for one month of faculty summer salary or summer graduate student support to conduct research and engage with stakeholder groups on climate change adaptation. More information and a copy of the funding announcement can be found in the online science calendar entry for February 5 ([www.cgc.uaf.edu/calendar.html](http://www.cgc.uaf.edu/calendar.html)).

**John A. Knauss Marine Policy Fellowship**
Alaska Sea Grant is recruiting graduate students for the 2016 National Sea Grant Knauss Marine Policy Fellowship. Application **deadline: February 13, 2015**. Fellowship begins: February 2016. The Fellowship is well suited for graduate students with an interest in national policy decisions affecting coastal and ocean resources and involves spending a year in the Washington, D.C., area in an executive or legislative position. Recipients work on substantive national policy issues related to aquatic resources. For more details or to apply, go online to: [http://seagrant.uaf.edu/research/knauss/knauss-application.html](http://seagrant.uaf.edu/research/knauss/knauss-application.html)

**Alaska Sea Grant State Fellowship**
The Alaska Sea Grant State Fellowship Program strengthens the workforce dedicated to healthy fisheries and coastal environments by encouraging graduate students to launch careers in Alaska. The program provides a unique professional opportunity for graduate students who are interested both in marine resources and in the policy decisions affecting those resources in Alaska by providing on-the-job experience in the planning and implementation of marine and/or coastal resource policies and programs in Alaska. Highly motivated graduate students are matched with host state or federal agencies in Alaska for a paid fellowship. Graduate students close to completing a degree, or with a recently earned degree, can apply. Fellows may be located in Fairbanks, Anchorage, or Juneau, with possible start date of July 1, 2015. Application **deadline is February 13**. For more about the fellowship and how to apply, visit [http://seagrant.uaf.edu/research/state-fellowship/index.php](http://seagrant.uaf.edu/research/state-fellowship/index.php)

The People’s Endowment Board at the University of Alaska Fairbanks is pleased to announce the availability of funds for Spring 2015. The People’s Endowment was established at the UA Foundation in 1986 with the intent to provide a source of funds for projects that will improve UAF but would likely remain unfunded due to institutional priorities. Grants are intended to be used for a special project or to fill a critical need at UAF. Proposals will be accepted from UAF faculty, staff, and students. All proposals will be submitted to the People’s Endowment Board for review and selection.
**Deadline:** The deadline for receipt of complete proposals is **February 3, 2015.** **Proposals received after 5 p.m. of the deadline date will not be considered.** Successful recipients will be notified on February 16, 2015.

**Maximum Grant Amount:** $5,000

The board may fund more than one grant depending on available funds and amounts requested. Requests for smaller amounts or partial funding will be considered.

**Submission Guidelines:**

Proposals must be submitted in the provided template format. Proposals should contain evidence that the funded project will provide a margin of excellence that could provide support or assistance to improve the overall quality or stability of university programs and efforts.


Examples of projects not likely to receive funding include scholarships or pure research projects, for which there are other funding opportunities available. In general, grants will not fund projects that are part of normal university activities.

**The People’s Endowment does not fund honorariums, salaries, and consultation service fees to UA employees.**

To apply, you must submit the proposal template provided which includes the following information:

*Title and general description including outline of problem to be solved; how will PE funding fill a critical need or improve UAF?*

*Detail of budget requested, including other grants sought and awarded/denied.*

*Student groups interested in applying for a grant must include a faculty mentor who will assists in overseeing and guiding the project.*

*Applicant contact information, including name, address, phone number and e-mail address, and university affiliation.*

Send complete proposals via e-mail to the Provost’s office at [jahoppough@alaska.edu](mailto:jahoppough@alaska.edu). Proposals are available online at [www.uaf.edu/provost/peoples-endowment](http://www.uaf.edu/provost/peoples-endowment). General questions about this grant can be addressed to the Provost’s Office at 474-7096 or [jahoppough@alaska.edu](mailto:jahoppough@alaska.edu).

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**OTHER**

**The Alaska Summer Research Academy (ASRA) summer 2015 applications are now open!**

ASRA is an intensive, two-week DAY ONLY (housing is not provided) learning experience for students with an interest in science, technology, engineering and math. Students study one subject (module), work in small teams, and participate in project based learning in a college environment. Both middle school (grades 7-8) and high school (grades 9-12) modules will be offered from July 20-31, 2015.

For more information or to apply, visit the ASRA website, [www.uaf.edu/asra](http://www.uaf.edu/asra). Applications close on March 22nd.

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