**Weekly RAP December 7, 2015**

**All RAP**  
**Monday, December 7**  
1:00 – 3:00 pm  
401 IARC  

*High-elevation and high-latitude conifer forest response to climate warming and novel fire regimes in western North America*  
Winslow Hansen, RAP Alum and PhD Candidate, University of Wisconsin Madison

ABSTRACT: Climate and disturbance regimes are expected to change profoundly in 21st century forests. Whether and where forests may succumb to projected trends and shift to different ecosystem states is poorly resolved but essential for anticipating both ecological and social consequences of climate change. Evaluating forest resilience to environmental change is an emerging field, often addressed conceptually, theoretically, or observationally at broad scales. Integrated approaches that combine experiments, observations, and simulations are rare but essential for identifying mechanisms that may underpin transitions to alternate states in forest ecosystems and for evaluating associated consequences. In this talk I will present a series of studies that explore the following question: How and why might warming-drying conditions and altered stand-replacing fire regimes catalyze changes in high-elevation and high-latitude conifer-forest ecosystems? In subalpine forests of Yellowstone National Park, the historical climate-fire context, current conditions, and expected trends provide a unique opportunity to address such questions. Climate and fire regimes have varied substantially in the past. Projections suggest, however, that by mid-21st century, fire and climate in these systems will likely exceed the most extreme conditions of the past 10,000 years. The presentation will emphasize research in Yellowstone and will conclude with some discussion on future research directions doing a regional comparison between Yellowstone and the boreal forest of interior Alaska. High latitude and high elevation conifer forests may look qualitatively different in coming years. This talk will attempt to begin painting a picture of how these ecosystems may change and why.

**and**

*Can We Be Honest Brokers of Science? A Case Study with the Listing Decision for Alexander Archipelago Wolves*  
Mark Lindberg, Professor of Biology, UAF

ABSTRACT: Science and other forms of information are often communicated to decision and policy makers following a linear model where scientists and stakeholders in general are not involved in the interpretation of the results and their use in the decision process. I will examine this issue based on my experience with an endangered species listing decision for Alexander Archipelago Wolves. I will further discuss why a linear model is often followed and offer an alternative model, structured decision making. We will briefly explore how decision analytics and resilience concepts might be married. Finally, I will describe the class I am offering in the spring 2016 on decision analytics and how it may provide students interested in applying science to inform decisions and policy with a means to do so.

**Monday, December 7**  
9:30 – 10:30 am  
201 Irving I  
Interdisciplinary M.S. defense  
Comparison of lower body segment alignment of elite level hockey players to age-matched non-hockey players  
Jim Kimbal, M.A. candidate

4:30 -5:30 pm
One Health / Biomedical Seminar Series
Murie Auditorium
From synaptic transmission to satiation: How modulation of viscerosensory signaling in the hind brain controls food intake
Bob Ritter, Washington State University

**Tuesday, December 8**
9:00 – 10:00 am
Geology PhD defense
Runcorn Room (300 Reichardt Bldg)
The paleoenvironments of the Late Cretaceous Lower Cantwell Formation, Sable Mountain area in Denali National Park, Alaska (Dinosaur resort or gate to hell?)
Carla Susanne Tomsich, Ph.D. Geology candidate, Department of Geosciences.

**Wednesday, December 9**
3:30 -4:30 pm
Vera Alexander Learning Center, 201 O'Neill Bldg
Institute of Marine Science Seminar
A Ph.D. proposal presentation by graduate student Sarah Traiger.

**Thursday, December 10**
10:00 -11:30 am
Runcorn Room, 300 Reichardt Bldg
Biochemistry PhD defense
Glucose transporter-4 (GLUT4) expression on peripheral blood mononuclear cells in conditioned vs. sedentary college students
Kendra Sticka, Ph.D. Biochemistry candidate.

12:00 -1:00 pm
Lobby of the Akasofu Bldg (IARC)
IARC Research Salon Series
IARC's Early Researchers poster presentations
This month’s IARC Research Salon Series features IARC’s Early Researchers poster presentations.
AGU attendees will share and discuss the work they will be presenting at the Fall meeting in San Francisco. Posters will be available for viewing all day.

5:10 – 7:00 pm
501 Akasofu Bldg (IARC)
Meeting of the Association for Women in Science--Alaska Chapter (AWIS-AK)
Come to this brainstorming, planning and continuing fellowship session and share your ideas for activities you want to do this coming year. Faculty, staff, graduate students and undergraduate students who are passionate about science are welcome to attend.

**Friday, December 11**
12:00 – 7:00 pm
Fine Arts Complex
UAF Art Department’s Student Studio Sale - Ceramics/Prints/Metals

2:00 -5:00 pm
201 Elvey
Alaska Sea Grant Holiday Open House

3:30 – 5:00 pm
202 Reichardt
Geosciences Seminar
Inspiration in times of challenge: Retracing the steps of pioneers in North Alaska Geology
Gregory Wilson, ConocoPhillips

ABSTRACTS/MEETINGS/PROFESSIONAL DEVELOPMENT

INTERDISCIPLINARY SCHOLARSHIP IN LAND USE AND ETHICS: POETICS
Dates: June 10 – 12, 2016
Location: Huntington Lodge at SUNY-ESF’s Newcomb Campus
Contact: Marianne Patinelli-Dubay at mpatinelli@esf.edu

Description: SUNY College of Environmental Science and Forestry’s Northern Forest Institute invites submissions for its fourth annual Symposium of Interdisciplinary Scholarship in Land Use and Ethics. Our focus will be on a poetic approach to the topic of land use and ethics. We welcome submissions related to the Symposium theme in the areas of poetic criticism and interpretation, new and original poetry including a scholarly contextualization to situate the poem(s) in the event topic, submissions that re-imagine a philosophical approach to land ethics as poetry, treats an other-than-poetic work as poetry and/or emphasizes the lyricism of non-poetic academic work for the purpose of illustrating how what has been traditionally viewed as other can be read through a poetic lens.
Website: http://www.esf.edu/nfi/symposium/

Registration opened this week for 2016’s largest international gathering dedicated to the Arctic, which will be held this spring break at the University of Alaska Fairbanks.

The Arctic Science Summit Week (https://assw2016.org/), Arctic Observing Summit (http://www.arcticobservingsummit.org/aos-2016-themes-and-important-announcements), Arctic Council Senior Arctic Officials Meeting, Model Arctic Council and related events will attract nearly 1,000 scientists, policy makers, technical experts, educators and other Arctic authorities from around the world to UAF from March 9-20, 2016.

Alaska’s presence in the Arctic is the reason the United States is an Arctic nation and why UAF — America’s Arctic university — is taking leadership on the event. The summit will provide unprecedented opportunities for UAF students, staff and faculty to highlight our expertise, demonstrate our leadership and engage in international science and policy in a variety of ways.

An extensive planning effort has been underway for almost a year, but as we approach the conference the Local Organizing Committee will share occasional updates on progress, planning, opportunities and other news.

Subscribe for updates
Find out what’s happening with ASSW and the other meetings by exploring the website (https://assw2016.org/) and subscribing for email updates (https://assw2016.org/subscribe). You can also like “ASSW 2016” on Facebook or follow us on Twitter (@arctic2016).

Register for the conference
The conference will include plenary presentations, panel discussions, open and closed-business meetings, working group sessions, an exhibit hall, and other activities. Browse the program (https://assw2016.org/assw-program) for more
information and to determine if you would like to register (https://assw2016.org/register) for one day or more of the meeting.

Public events
Several events will be open to the Fairbanks community. Many are being confirmed, so subscribe to our email list (https://assw2016.org/subscribe) and watch for more information soon.

Get involved
Putting together a conference of this magnitude is no small feat. Please work with us to help UAF shine and make the event a success. We will be looking for student volunteers this fall and winter, and we continue to look for help from staff, faculty and students for various planning activities. If you have funding, staff capacity or want to get involved in some other way, please email Scott Rupp (tsrupp@alaska.edu), chair of the Local Organizing Committee.

10/12/2015

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**INTERNSHIPS/FELLOWSHIPS/ EMPLOYMENT**

**Tenure Track or Tenured Professor for Interdisciplinary Initiative in Climate Change Impacts and Adaptation University of California San Diego**

The University of California, San Diego has made an unprecedented commitment to understanding climate change impacts through long term global observations and modeling and addressing these impacts through the development of scalable adaptation tools and solutions. We invite applications from outstanding candidates for up to four separate searches (totaling 8 positions) for TENURE TRACK or TENURED FACULTY POSITIONS. These positions are part of a bold multi-discipline, multi-year initiative that spans the entire University. Each appointment will be made jointly between at least two departments from across the campus in order to facilitate collaborations in new inter-disciplinary fields. They include but are not limited to the Scripps Institution of Oceanography (SIO), Health Sciences (School of Medicine and Skaggs School of Pharmacy and Pharmaceutical Sciences), the Jacobs School of Engineering, the Division of Biological Sciences, the Division of Physical Sciences, the Division of Arts and Humanities, the Division of Social Sciences and the School of Global Policy and Strategy. The initiative in climate change impacts and adaptation seeks to build on existing cross-disciplinary strengths to understand the implications of climate change and address the planet’s most pressing climate related needs with actionable adaptation strategies. The initiative will leverage UC San Diego’s existing strategic partnerships to inform climate change policy and adaptation decisions at multiple levels - local, state, federal and international - and address issues related to national security, public safety, global health, resilience and more. In addition to these appointments, UC San Diego’s newly established Center for Climate Change Impacts and Adaptation demonstrates the organization’s commitment to addressing the consequences of climate change. Appointments generally will be at the Assistant or Associate Professorial level and in exceptional cases at the very early Professorial level. UCSD is committed to academic excellence and diversity within the faculty, staff, and student body.

There will be four focus areas within the climate change impacts and adaptation initiative:
1) Human health and climate change
2) Hazards from climate impacts in the natural and built environment
3) Biological, ecological and human adaptation to climate change
4) Sensor and platform development to monitor the changing environment

Candidates may submit an application to one or more of these areas.

Applicants must have a PhD in a relevant field. Successful applicants will be expected to teach both graduate and undergraduate students in the participating departments and establish a vigorous program of high quality, independently-funded research. The preferred candidates will have demonstrated strong leadership or a commitment to support diversity, equity, and inclusion in an academic setting.

The level of appointment and salary is commensurate with qualifications and based on UC pay schedules.
Completed applications received by November 13, 2015 will be assured of consideration and the positions will remain open until filled.

Applications must be submitted electronically through the AP-Online Recruit website. Candidates may submit an application to one or more of these areas.

Applications at the Assistant Professor level, please refer to the links below:
Human health and climate change https://apol-recruit.ucsd.edu/apply/JPF00933
Hazards from climate impacts in the natural and built environment https://apol-recruit.ucsd.edu/apply/JPF00935
Biological, ecological and human adaptation to climate change https://apol-recruit.ucsd.edu/apply/JPF00937
Sensor and platform development to monitor the changing environment https://apol-recruit.ucsd.edu/apply/JPF00939

Applications at the Associate or Full Professor level, please refer to the links below:
Human health and climate change https://apol-recruit.ucsd.edu/apply/JPF00934
Hazards from climate impacts in the natural and built environment https://apol-recruit.ucsd.edu/apply/JPF00936
Biological, ecological and human adaptation to climate change https://apol-recruit.ucsd.edu/apply/JPF00938
Sensor and platform development to monitor the changing environment https://apol-recruit.ucsd.edu/apply/JPF00940

For applicants with interest in spousal/partner employment, please see http://academicaffairs.ucsd.edu/aps/partneropp/index.html for the UC San Diego Partner Opportunities Program.

Please direct inquiries to climatechangerecruit@ucsd.edu

The University of California San Diego is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, age or protected veteran status.

The Faculty of Arts, Department of Anthropology and Archaeology invites applications for a tenure track position in Development Studies at the rank of Assistant Professor. The anticipated start date is July 1st, 2016.

We are seeking a scholar who will establish and maintain an active research program in the area of Development and Sustainability, with the ability to secure external research funding. The scholar must have a focus on critical development studies, and be open to working beyond the boundaries of conventional academic disciplines. Both development and sustainability recognize the need for interdisciplinary approaches and solutions – ones that integrate natural sciences, social sciences and the humanities. Expertise in areas that address interrelationships between development and environment, climate change, social impacts of industry, community wellbeing, changing life ways, and food sovereignty, is a high priority. The regional focus for this hire is open.

The successful candidate will be expected to produce high impact research and scholarship, to secure external research funding and will play an active role in teaching and graduate supervision in the Department of Anthropology and Archaeology. Service to the department, faculty, University and community will also be expected.

The preferred candidate will have a Ph.D. in a social sciences discipline, with evidence or strong potential for interdisciplinarity. The preferred candidate must demonstrate research excellence through evidence of, or potential for, publications in high quality journals. Demonstration of teaching excellence is also expected through a strong statement of teaching philosophy, outstanding teaching evaluations and evidence of commitment to undergraduate and graduate teaching, student supervision and mentorship.

The Development Studies Interdisciplinary Program (DEST) is housed in the Department of Anthropology and Archaeology. We are a research-intensive department with high standards in teaching. We value interdisciplinary and multidisciplinary approaches to research and training, and strongly encourage collaboration. For more information about the Department and the DEST program, please visit http://antharky.ucalgary.ca.
All applications must be received by January 14, 2016. Please provide an up to date curriculum vitae, a statement of research interests, a teaching dossier, three samples of scholarly work, and the names and contact information for 3 referees. The materials should be directed to:

Julie Boyd
Department of Anthropology and Archaeology
University of Calgary
Development and Sustainability Position
Earth Science 620
2500 University Drive NW
Calgary, Alberta, Canada, T2N 1N4

These materials can also be sent electronically to boydj@ucalgary.ca. All applicants are strongly encouraged to visit http://antharky.ucalgary.ca to obtain additional information on our department.

The University of Calgary believes that a respectful workplace, equal opportunity and building a diverse workforce contribute to the richness of the environment for teaching, learning and research, and provide faculty, staff, students and the public with a university that reflects the society it serves. All qualified candidates are encouraged to apply; however Canadians and permanent residents will be given priority. In this connection, at the time of your application, please answer the following questions: Are you a Canadian citizen or a permanent resident of Canada? (Yes/No) and are you currently legally entitled to work in Canada? (Yes/No)

GRANT OPPORTUNITIES/SCHOLARSHIPS/OTHER AWARDS

COURSES

RD F655 (DD1) Circumpolar Health Issues, CRN 38551
Spring 2016  3 credits
Judith Ramos jramos2@alaska.edu
Wednesdays, 5:10 – 8:10 pm

This course provides a comprehensive overview of major circumpolar health issues affecting Northern residents. Includes an analysis of health and traditional healing practices prior to contact. Examines the emergence of chronic diseases, problems of alcohol abuse and violence, efforts to combine traditional healing practices and Western medicine. Includes environmental health issues, including water, sewer and food contamination. Overview of healthcare systems and public health infrastructure in the North. Prerequisites: Graduate standing or instructor permission.

Northern Studies F611 UX1 American Environmental History  CRN: 38692
Spring 2016  3 credits
Distance delivered
Diana DiStefano, didistefano@alaska.edu

Course Description:
This class explores major themes in American Environmental History (1500-present) by posing three main questions: How have Americans interacted with their landscape? What were the consequences of those interactions? How have environmental ethics changed over time and why? More specifically, this class looks at different Americans’ conceptions of land use and natural beauty, the impacts of an industrial economy, and efforts to preserve or protect wilderness. Our examination begins with the arrival of Euro-Americans in North America, continues onto how industrialization changed Americans’ relationship with the environment, and extends through the environmental justice movements and issues of global climate change in the present. This will allow us to look both analytically and critically at our changing relationship with the environment.

NRM641 Remote Sensing Applications Using ArcGIS
Spring 2016 3 credits

COURSE GOALS:
1) To learn basic image processing methods using ArcGIS including panchromatic and color image display, image fusion, image georeferencing, change detection methods, supervised and unsupervised classification, and accuracy assessment methods.

2) To learn about sensors especially applicable to vegetation applications in Alaska including color infrared aerial photography, LIDAR, IFSAR, Landsat, MODIS, and AVHRR sensors and data products.

3) To use ArcGIS to explore changes associated with climate warming in Alaska including greening of the arctic, browning of the boreal forest, mapping wildfire severity and hotspots, mapping shrinking lakes and coastal erosion, etc.

I will be teaching this as a distance-delivery class, primarily via taped video sessions and weekly ArcGIS assignments. [https://elearning.uaf.edu/course-details-2/?crn=37176](https://elearning.uaf.edu/course-details-2/?crn=37176)

if interested please email: dlverbyla@alaska.edu

WLF 694 Decision Analysis for Conservation
Spring 2016 3 credits

I will be offering a new graduate class (WLF 694) during the spring 2016, which will be of interest to students who want to learn more about how to use science to inform conservation and management decisions. Decision Analysis for Conservation will introduce students to the theory and application of structured decision making (depicted below) and adaptive management for conservation problems. Knowledge and skills in this field have been identified as essential for future success by a number of leaders in our profession and as a result the US Fish and Wildlife Service has been offering training to agency employees through the National Conservation Training Center (NCTC). WLF 694 is a 3 credit class based largely on the introduction to structured decision making class offered through the NCTC. I recently participated as an instructor for 2 decision analysis workshops offered by NCTC and worked with international leaders in the field both in the US and Australia. I will bring those experiences to the classroom.

The course will meet TR 9:45-11:15 in Murie 309 and the class will include lectures, computer exercises, and group discussions. Required texts are:


Grades will based on homework assignments (50%), which will be completed during the first half of the semester, and a term project, which will be application of decision analysis to a real issue and oral presentation of that application. The syllabus, which is undergoing final approval, is available upon request. Please contact Mark Lindberg, mslindberg@alaska.edu with additional questions.

OTHER

The sale shelves on the main floor of Rasmuson Library have been stocked with a number of "northern" titles at very reasonable prices (mostly $1, $3, and $5, but a few items higher). Don't worry, we are not removing these titles from our circulating collections. These are surplus copies received from retiring faculty and others. All proceeds of the sale go into a fund for repair/conservation of items in our circulating and rare collections that cannot easily be replaced.
Items that may be of particular interest to you set aside on two separate carts: EIS reports; ADF&G field reports; bird books; reports on effects of and recovery from the 1964 Alaska Earthquake; reports on and plans for the Trans-Alaska Pipeline and other infrastructure projects; etc. Of course you are welcome to peruse the bookshelves containing our histories, memoirs, fiction, travel literature, and other offerings as well. The sale will continue through the end of the semester (closing time, Dec 19th), and I will be putting out new items around noon every day through Dec. 11th.

Katherine Arndt
Alaska and Polar Regions Bibliographer

PoLAR Voices, A podcast investigating climate change science and its impact on life at the poles

Listen. Tune in every 3rd Wednesday at thepolarhub.org for the latest episode, or find us on iTunes. Learn Why is climate change more intense at the poles? How does climate change impact life in the North? What is the global impact of polar warming? How can we mitigate negative changes? Explore the science of polar climate change on PoLAR Voices.

Learning Tools. Our learning tools allow you to test your knowledge and link to additional thepolarhub.org/project/polar-voices educational resources. Try out our episode specific quizzes or connect with current research on climate change.

Participate. Have something to add? Post a comment on our blog: https://polaraudio.wordpress.com/
Have something to say? Post feedback on our blog or website: https://polaraudio.wordpress.com/ or http://thepolarhub.org/project/polar-voices

Have something to share? If you are a researcher or are living in the North and have an interesting story about high latitude climate change, contact us about being featured in an episode.

Contact Us
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http://thepolarhub.org/project/polar-voices

Polar Voices is part of the Polar Learning And Responding (PoLAR) Climate Change Education Partnership and is funded by the National Science Foundation.

Please send suggestions, announcements, etc. to Mary van Muelken, mavanmuelken@alaska.edu