CMMAP Student Colloquium
CMMAP Seminar Room - Rm 121
July 31-August 3, 2012

2012 CMMAP Student Colloquium Theme:
Climate change and impacts, with a focus on pine/bark beetle infestations, fire vulnerability, fire mitigation, and carbon in forest ecosystems.

Tuesday - July 31, 2012

8:30 - 9:00 am **Breakfast**

9:00 - 10:00 am **Welcome, Introductions, and Overview**

10:00 am - 12:00 pm **Student Research Presentations**

Graduate students and summer undergraduate interns will give a 12-minute presentation on their current research. Presentations should include a little about who you are, what your research is about, why it is important to others, and what you expect to find.

10:00	Kate Thayer-Calder
10:15	Aryeh Drager
10:30	James Carpenter
10:45	Break
11:00	Lindsey Hayden
11:15	Renee Curry
11:30	Heather Vazquez
11:45	Allyson Clark

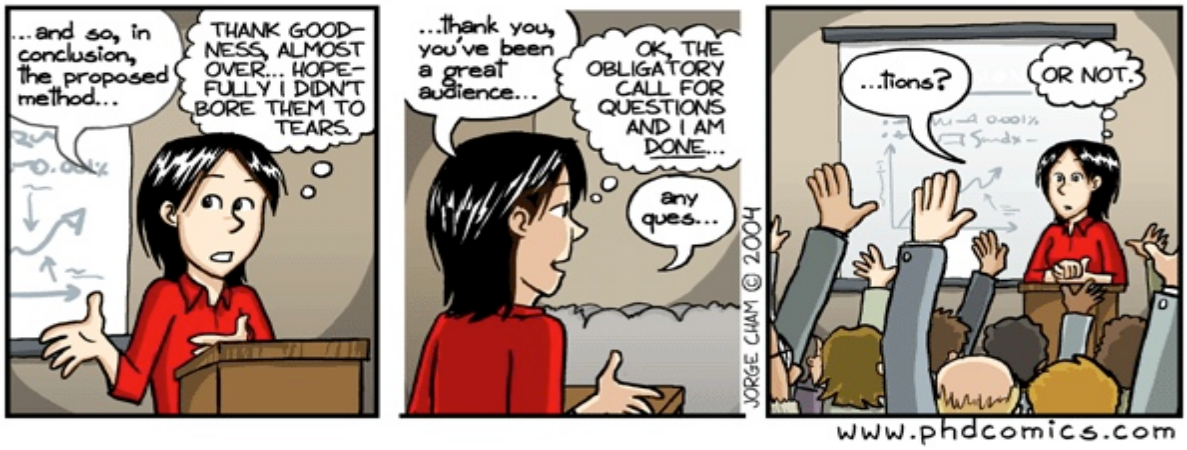
12:00 - 1:00 pm **Lunch and Networking**

1:00 - 2:00 pm **Fire weather: observations and tools'**

Matt Rogers, Cooperative Institute for Research in the Atmosphere

Matt Rogers finished his PhD in Atmospheric Science at Colorado State in 2008, with a focus on satellite remote sensing and cloud properties. After working on the CloudSat and OCO missions, he moved to CIRA in April 2011 where he splits his time between education and outreach tasks and satellite-derived solar resource nearcasting.

2:00 - 2:15 pm **Break**



2:15 - 3:15 pm **Examining mountain pine beetle impacts on fire behavior using coupled fire/vegetation/atmosphere modeling approaches**

Chad Hoffman, Department of Forest and Rangeland Stewardship

Chad Hoffman is an assistant professor of fire science in the Department of Forest and Rangeland Stewardship with a specialization in fire behavior modeling at Colorado State University. His research centers around the quantification of wildland fuels complexes across spatial and temporal scales and the role that fine-scale fuel heterogeneity plays in determining wildland fire behavior. His recent projects have concentrated on examining the interaction between bark beetle caused mortality and wildland fire behavior, the influence of patch selection forest thinning on microclimate, fuels and fire behavior, and validation and evaluation of physics based fire behavior models.

3:30 **Adjourn**

5:30 - ? **Social Event at Coopersmiths**

Wednesday - August 1, 2012

8:30 - 9:00 am	**Breakfast**
9:00 - 10:15 am	**Student Research Presentations**
9:00	Aaron Pina
9:15	Noel Hilliard
9:30	Grant Firl
9:45	Daniel Miller
10:00	Catie DeMets
10:15 - 10:30 am	**Break**
10:30 am - 12:00 pm	**Student Research Presentations**
10:30	Alex Gonzalez
10:45	Jessica Camacho
11:00	Gabe Kooperman
11:15	Raymond Ruiz
11:30	Walter Hannah
11:45	Leah Lindsey
12:00 - 1:00 pm	**Lunch and Networking**
1:00 - 2:00 pm	**Climates of Change: Bark Beetles, Forests and Management**

Sky Stephens, Colorado State Forest Service Entomologist

Dr. Sky Stephens, forest entomologist with the CSFS, has spent the last nine years working on insect pest-tree host relationships. She has studied in the high elevation pine forests of Arizona and the tropical hardwood forests of West Africa looking at pest management, diversity issues and sustainable timber production. She completed her graduate work in forest entomology at Northern Arizona School of Forestry prior to joining the CSFS. As CSFS Forest Entomologist, Sky participates in annual aerial detection surveys, conducts detection and monitors trapping for exotic insects and works with many special interest groups.

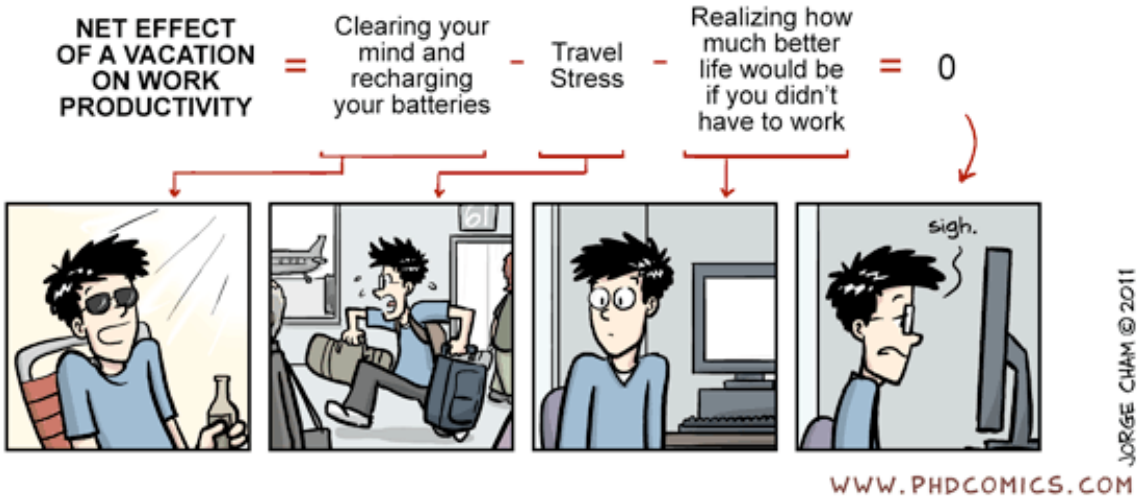
2:00 - 2:15 pm	**Break**

2:15 - 3:15 pm **Linking bark beetle caused hydraulic failure to declining ecosystem fluxes in a high elevation Rocky Mountain (Wyoming, USA) forest**

John Frank, U.S. Forest Service

John Frank is an electronics engineer with the U.S. Forest Service, Rocky Mountain Research Station. Since 1999 he has specialized in micrometeorological research at the high-elevation GLEES AmeriFlux site with all of its unique challenges because of the cold and windy Wyoming winters. He earned both a bachelor's and master's degree in electrical engineering from Kansas State University and is currently working on a PhD in ecology at the University of Wyoming.

3:30 **Adjourn**

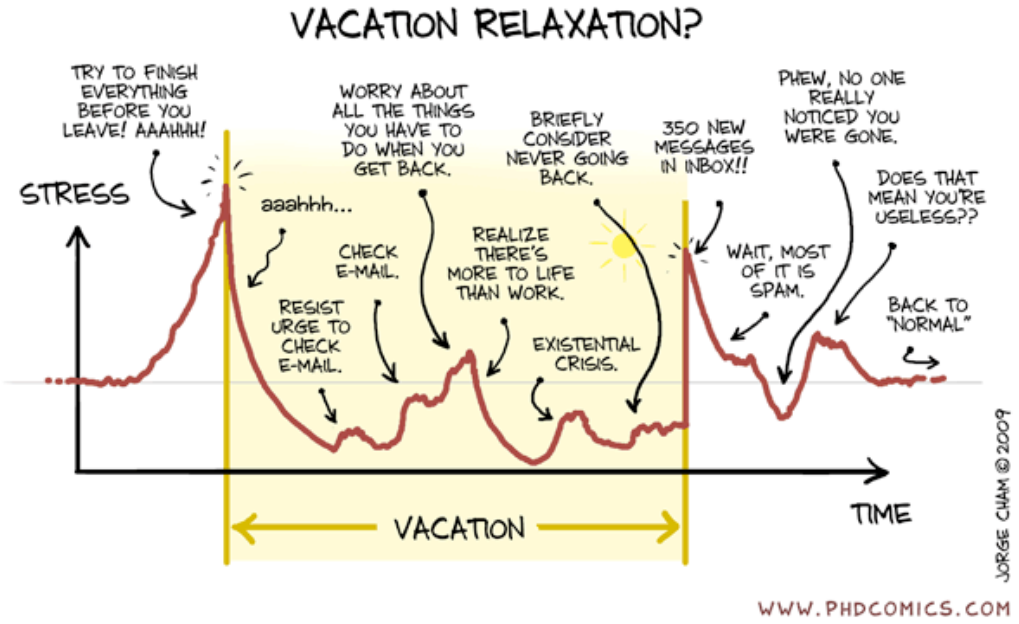


Thursday - August 2, 2012

8:00 - 8:30 am	**Breakfast**
8:30 am	**Depart for the Glacier Lakes Ecosystem Experiments Site (GLEES)**
10:30 am- 3:30 pm	**GLEES Tour**
3:30 pm	**Return to Fort Collins**

Directions to GLEES

Take US 287 up to Laramie. And then take WY 130 to Centennial and beyond. After Centennial you drive another ~8 miles on WY130 until you drive through a grandiose "S" curve and then turn at your first right onto the dirt USFS 317/Brooklyn Lake Rd. Drive that for about a mile, past St. Alban's chapel on the right and the scaffold is on about ¼ mile ahead on the right (we park at the North Fork Trail).



Friday - August 3, 2012

8:30 - 9:00 am	**Breakfast**
9:00 - 11:00 am	**Student Research Presentations**
9:00	Anthony Cosio
9:15	Parker Kraus
9:30	Steven Brey
9:45	Matt Muscato
10:00	Break
10:15	Bilijana Orescanin
10:30	Josh Anderson
10:45	Daniele Rosa
11:00 am -12:00 pm	**My experience as the Captain of the Rist Canyon Volunteer Firefighter Department during the High Park Fire**

Carol Dollard, CSU Utilities Engineer

Carol Dollard is an Energy Engineer in charge of sustainability, energy efficiency and renewable energy programs for Colorado State University. Her life experience includes solar energy research and applications, greenhouse gas accounting, energy and water conservation, green buildings, and operation and maintenance of utility systems. Carol is a licensed Professional Engineer and a LEED AP. In addition to her work at the university, Carol is the Captain of the Rist Canyon Volunteer Fire Department & has been a member of the Department for 28 years.

12:00 - 1:00 pm	**Lunch and Networking**
1:00 pm	**Adjourn**

Another scheduled activity:

Tour of NCAR Mesa Lab, 3:00-4:00pm
Due to the Flagstaff fire in late June, the summer interns weren't able to take a tour of the Mesa Lab. This is a rescheduled activity that everyone is welcome to attend. We will depart the Foothills Campus at 1:30 pm.