

EPSCoR

Nevada Infrastructure for Climate Change Science, Education, and Outreach



Policy,
Decision Making,
Outreach



Cyberinfrastructure



Climate Modeling



Education



Ecological Change



Water Resources

Education Component

Gale M. Sinatra

Education Component Lead

Education Component Team

- ***Abby Beck***, Graduate Student, UNLV
- ***Paul Buck***, DRI
- ***Mike Collopy***, UNR
- ***Jacque Ewing-Taylor***, UNR
- ***John Farley***, UNLV
- ***Zhongwei Liu***, UNLV
- ***Juan McAlister***, NSC
- ***Aubrey Shirk***, Graduate Student, UNLV
- ***Gale Sinatra***, UNLV
- ***Melissa Slayden***, Graduate Student, UNR
- ***Stephanie Patton***, Graduate Student, UNLV

Fall Team Meeting



Convened Education
Component Team in Fall

Met on October, 25th via
WebEx

Objectives: Update on
Activities, Identify Objectives

Sinatra & Lombardi Climate Change Seminar Series Presentation

EPSCoR Nevada Infrastructure for
Climate Change Science, Education, and Outreach



Policy, Education, Outreach
Cyberinfrastructure
Climate Modeling
Education
Ecological Change
Water Resources

Nevada Climate Change Seminar Series

*"IT WASN'T ANY COLDER WHEN I WAS A KID:
HEATING UP INSTRUCTION
ON CLIMATE CHANGE"*

PRESENTED BY:

DR. GALE SINATRA, UNLV DEPT OF EDUCATIONAL PSYCHOLOGY
DOUG LOMBARDI, UNLV DOCTORAL CANDIDATE

Teaching and learning about human-induced climate change presents unique challenges. In addition to misunderstanding the fundamental scientific principles underlying climate change, individuals may be committed to their own views based on attitudes, emotions, and plausibility perceptions that inhibit deep understanding. This presentation will feature recent research into these learning barriers and discuss potential implications for instruction and further research.

December 1, 2010
11 AM: Mixer with refreshments
11:30 AM – 12:30 PM:
Presentation

*The presentation will also be available via live stream at:
<http://www.nevada.edu/epscor/nsf/seminar-series.html>

RSVP to Michela_Casella@nshe.nevada.edu

Locations:
*UNLV (LIVE)
Greenspun Auditorium 1107
Western Nevada College, Carson City
Bristlecone Building 131
Great Basin College, Elko
High Tech Center 137
UNR, Reno
Knowledge Center 110

Survey of University Students and Professors' Views on Climate Change

Last year, UNLV & UNR Students surveyed on their views on climate change

- Data collected, preliminary analyses completed
- Served as basis for Professors' survey

This year, Beck, Sinatra, Findley developed Professor's Survey

- Developed, through IRB, data will be gathered and analyzed this Spring
- Abby will be presenting Tuesday on survey development process

NSF/EPSCoR Summer Undergraduate Research Opportunity Program (UROP)

UROP

Nevada EPSCoR
Climate Change
Project Funded.

Open to all
NSHE students.

Schedule

Awards are
made during
the Spring
Semester.

Projects
completed over
summer.

Application Process

Call went out
Spring 2010.

Received 20
applications.

Review Process

5-person
review
committee
(from UNR,
DRI, UNLV)

13 awards
totally \$58,500.

NSF/EPSCoR Annual Undergraduate Research Opportunity Program (UROP)

UROP

Nevada EPSCoR
Climate Change
Project Funded.

Open to all
NSHE students .

Schedule

Awards made
in Fall.

Projects
completed over
academic year.

Application Process

Call went out in
Fall 2010.

Received 47
applications.


Review Process

6-person
faculty review
committee
(from UNR,
DRI, UNLV)

15 awards (7
UNR, 8 UNLV)
totaling
\$67,500.

EPSCoR Nevada Undergraduate Research Symposium (NURS)

(NURS) held on 13-14 April 2010, in the Joe Crowley Student Union




Funded Nevada EPSCoR Climate Change Project



Showcased undergraduate CC research




Outreach to all UG research programs to increase size and visibility




14 presentations and 28 posters

UNR and UNLV Undergraduate Research Poster Conference (August)


Provide undergraduates an opportunity to present the summer research results.



All summer research programs are invited to attend.



Last summer: NSF-EPSCoR Climate Change Project, 2 NSF-REU (Tahoe-to-Pyramid, Physics), NASA Space Grant, Network for Earthquake Engineering Simulation-REU, and NIH INBRE.



33 UNR and 45 UNLV UGs presented posters on their research projects.

Nevada Undergraduate Research and Creative Activities Symposium

Saturday, April 16th, UNLV

“Festival of Communities Event”

<http://festivals.unlv.edu>

Event include
academic,
cultural
activities,
entertainment,
food.

UG Research
from all
disciplines.

15 UG funded
by Nevada
EPSCoR Climate
Change Project
will be expected
to present.

Task Force Meeting

Convened Task Force

Met on Thursday, Jan. 27th

Tom Piechota
Scott Mensing
Gale Sinatra
John Farley
Matt Lachniet
Dennis Pirages
Danny Taylor
Krystyna Stave

Objectives:

Develop vision for UG minor
and Grad Cert

Produce call for curriculum
development proposals

Summer Institute 2010

- Last year 13 total participants from the North and South.
- Feedback from participants:
 - “It was great to hear from researchers directly.”
 - “Being able to interact with teachers at all levels was a big bonus and being able to connect with the Ph.D.s was terrific!!
 - “The field experience with professionals was invaluable.”
 - “This was the best professional development class I have taken.”
 - “I will present information and activities that I learned in this institute to my students.”

Summer Institute 2010

- Pre to post test scores increased as much as 24%
- Suggestions from participants:
 - “Too much material to absorb in too little time.”
 - “Too much on radiation when we have limited time.”

Summer Institute 2011

ENV 794, Special Topics in Climate Change is being currently taught

10 students enrolled

Course set for Curriculum Committee



Recruitment is underway for Summer Institute.

6 students from the South

3 from the North

Researcher recruited for North Institute.



NSF REESE grant submitted in November

Sinatra, Nussbaum, and Ahmed

Support of Summer Institute included.

Graduate Fellows

11 students are currently receiving or have received funds.

There are enough resources to continue funding these students, but not enough to fund any new students.

Therefore, there will be no new call issued for Graduate Fellows.