



Rhode Island EPSCoR



Education, Outreach, Diversity (EOD) Report Annual Meeting July 30, 2014 Jeanette L. Miller, UD

RII - Track -2 IIA 1330446



Goal:

Inspire a diverse group of undergraduate and graduate students to enter STEM careers equipped with skills and experience in collaborative, multidisciplinary research.



EOD Team 2014







Sally Beauman, URI



Beth Chajes, UD



Amy Dunkle, URI



Steve Exler, UVM



Janice Hudson, UD

Lillian Gamache, UVM



Art Gold, URI



Sean Krepski, UD



Jeanette Miller, UD



Amy Slocum, UD



Rebekah Helton, UD



Lindsay Wieland, UVM



Education, Outreach & Diversity

- Year 1 Accomplishments:
 - Undergraduate recruitment and selection process
 - Online application tools
 - Inclusion of partner community colleges, HBCUs, MSIs
 - >UG Short course design & implementation
 >Multimedia project by 4 UG teams
 >Pre-Post evaluations for undergraduates

Recruitment of 8 graduate students and postdocs
 Communications & social media networks

>UGs – 62% female, 23% first-generation
>Graduate & postdoctoral – 50% female, 12.5% UR



Year 1 Dissemination to Communities of Interest

- Press releases on award announcement
- Website and logo created: <u>www.NEWRnet.org</u>
- News stories posted on website
- Social media postings Facebook, Twitter
- Poster presentation at EPSCoR national meeting
- Attendance at professional meetings by group members
- Print materials --including undergraduate internship recruitment postcard



Summer Short Course at the University of Delaware – June 2014



Goals:

- Introduce interns to NEWRnet research concepts and methods
- Provide background information and demonstrate purpose of the research
- Create a network among interns and atmosphere of collaboration among EPSCoR jurisdictions



Kick off the summer of research with some fun!







Summer Short Course at the University of Delaware



June 4

- AM What is NEWRnet? Orientation talks addressing key research areas
- PM Field visits to Brandywine Creek & the Wilmington drinking water treatment facility









Summer Short Course at the University of Delaware



June 4 - NEWRNet group at the Wilmington, DE water treatment facility



Summer Short Course at the University of Delaware



June 5

- AM Pulse of the Watershed; Field Visit to Fair Hill Natural Resource Area
- PM Lums Pond State Park and the zip line!





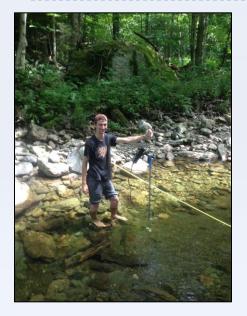




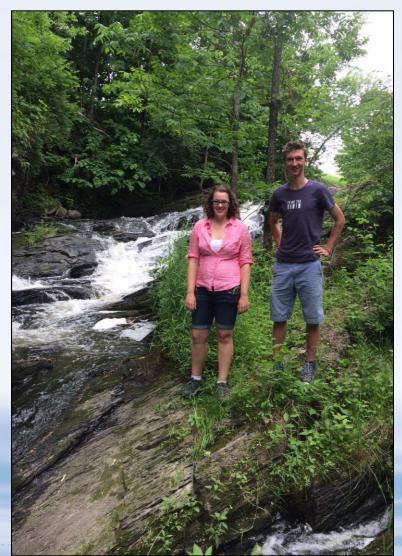


Vermont













North East Water Resources Network

Rhode Island



Undergraduate Research Symposium, August 12, 2014





Less than two weeks!

University of Delaware

Undergraduate Research Symposium, August 12, 2014



- Hosted by the University of Delaware
- Summer research poster session
- Student video presentations
- Guest speakers:
 - Andrew Schroth (U. Vermont)
 - Lyndie Hice-Dunton (DE Natural Estuarine Research Reserve)





Graduate Student Involvement

University of Vermont GRAs:

- Linyuan Shang (Experimental Economics)
 - Integrating phosphorus module in Daycent model into a hydrological RHESSys model
- Matthew Vaughan (Rubenstein School of Environment and Natural Resources)
 - Deploying an array of sensors throughout northern Vermont to record high-resolution river water quality data





Graduate Student Involvement

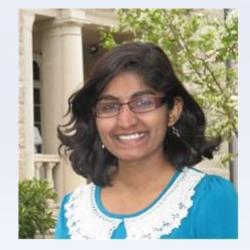
University of Rhode Island:

Buddini Karawdeniya (Chemistry)

Electroless plating of thin gold films directly onto silicon nitride thin films and into micropores

Haoran Miao (Environmental and Natural Resource Economics)

Experiment programming and implementation, working papers, academic conferences, UG mentoring









Graduate Student Involvement

University of Delaware:

Janice Hudson (Geography) Currently assisting with the coordination of set-up, collection, and analysis of throughfall chemistry samples from all states.

Doug Rowland, Catherine Winters (Water Science & Policy)

Assessment of carbon and nitrogen responses in watershed runoff using high-frequency, in-situ water quality sensors







Postdoctoral Fellow

University of Delaware: Jacob Fooks, Ph.D.

Working with Kent Messer in experimental economics research.



Broader Impacts: Outreach to K-12 Schools



Year 1:

 Hiring and placement of graduate students and postdocs in NEWRnet labs; mentoring established

• Goals for Year 2:

 5 presentations by graduate students and postdocs in classes for experience in the STEM classroom & in communicating with the lay public







...see what life is like outside of the classroom. - NEWRnet UG

This internship has given me great hands-on experiences ... and spend my entire summer outdoors. It's the perfect job. – NEWRnet UG

I walked into this opportunity completely overwhelmed with the choices I have to make in a year when I graduate. Now I can walk away with valuable skills such as researching and networking – and what I think is most important – confidence as I go into the work force. – NEWRnet UG

Discussion

