



22nd National NSF EPSCoR Conference

Coeur d'Alene, Idaho

October 24-27, 2011

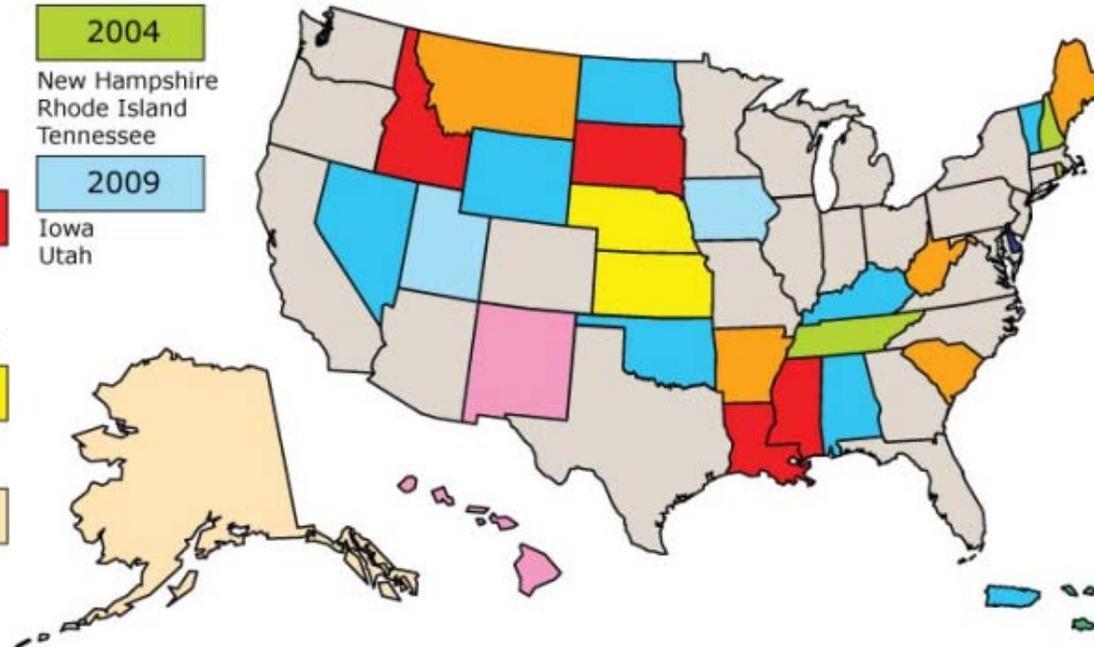
**Welcome to the
22nd National NSF EPSCoR Conference**

October 24 - 27, 2011, Coeur d'Alene, Idaho

NSF EPSCoR Jurisdictions

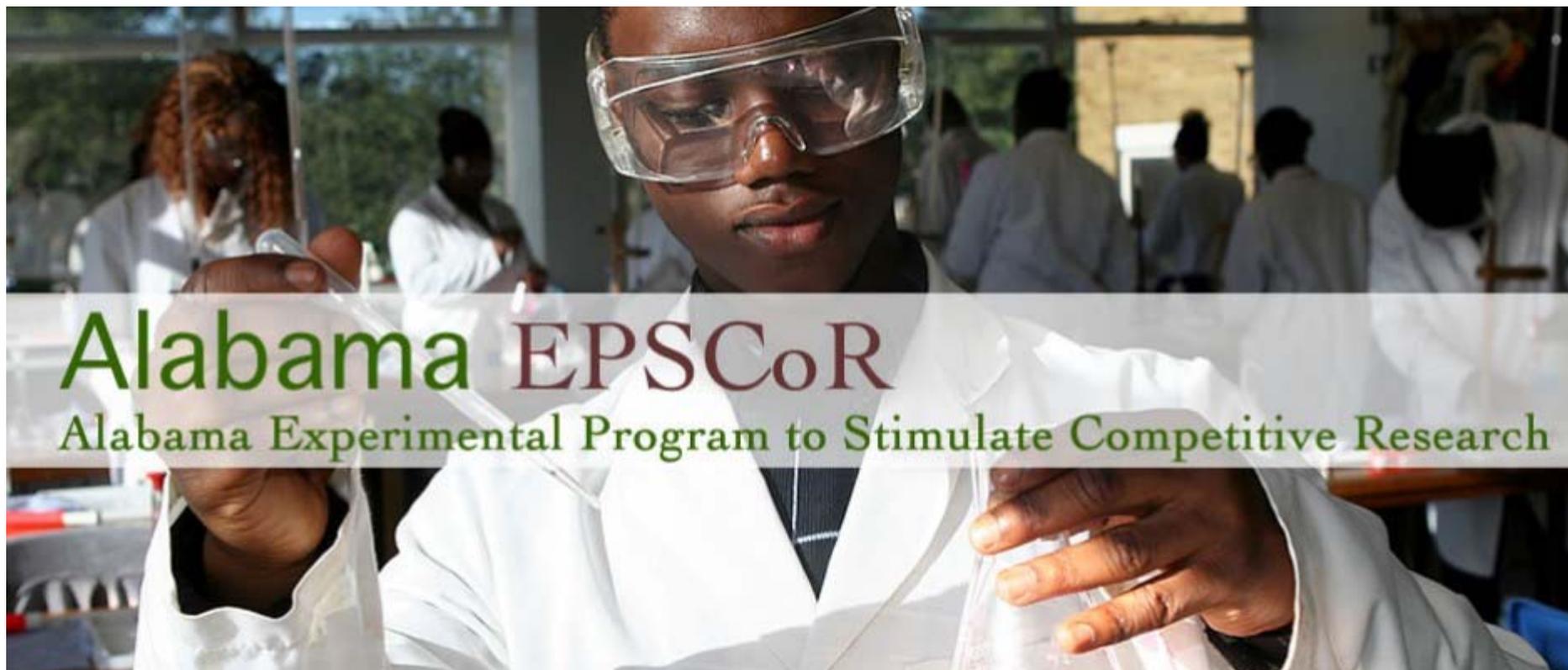


1980	2001
Arkansas Maine Montana South Carolina West Virginia	Hawaii New Mexico
1985	2002
Alabama Kentucky Nevada North Dakota Oklahoma Puerto Rico Vermont Wyoming	U.S. Virgin Islands
1987	2003
Idaho Louisiana Mississippi South Dakota	Delaware
1992	2004
Kansas Nebraska	New Hampshire Rhode Island Tennessee
2000	2009
Alaska	Iowa Utah



Research Infrastructure Improvement

Alabama EPSCoR

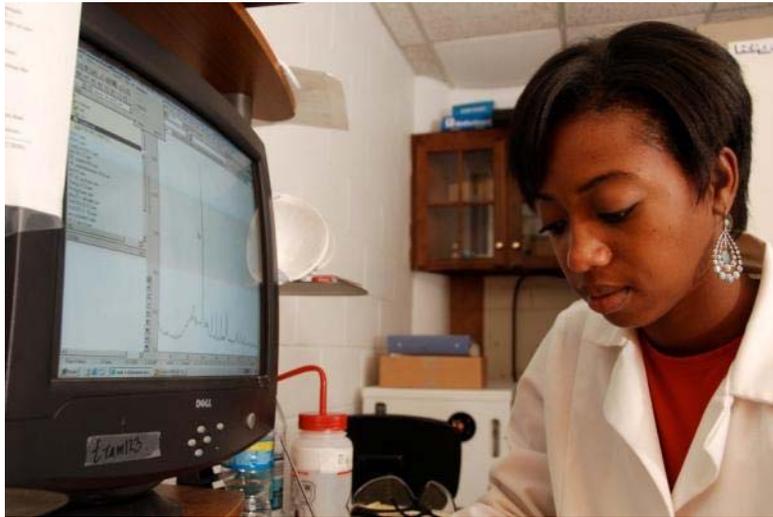


**Research, Education and outreach in
Nano and Biomaterials, Nanofabrication
Biotechnology, and Optics and Sensors**

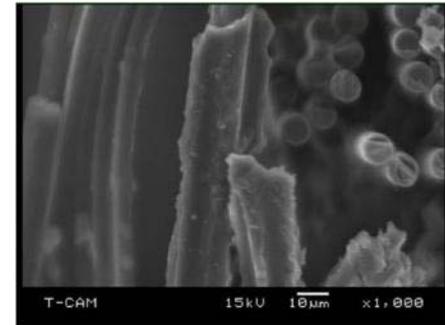


Nano and Biomaterials

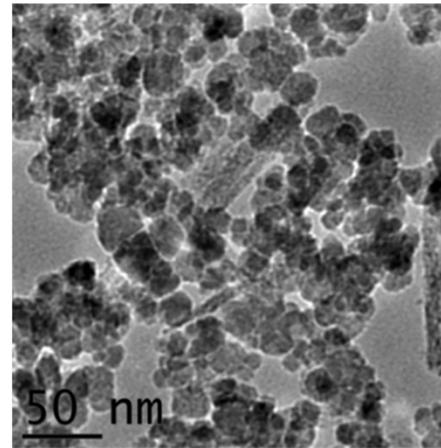
Development of Nano and Biomaterials for structural, biomedical and pharmaceutical applications



Nydeia Wright-Bolden (PhD, 2011)
characterizing iron oxide nanoparticles through X-ray diffraction



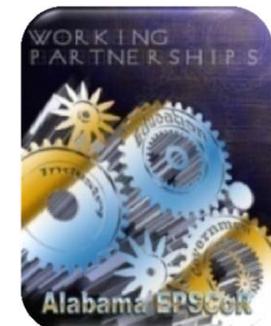
Improved interface between fiber and matrix in composites using nanoclay



TEM image of iron oxide nanoparticles for drug delivery applications

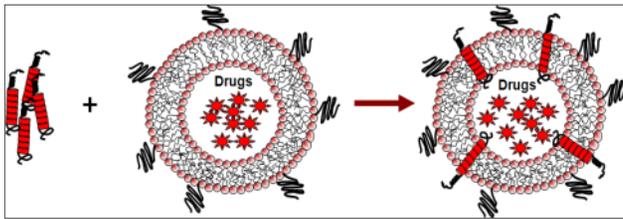


Glassy Polymeric Composite (central black materials) heart valve

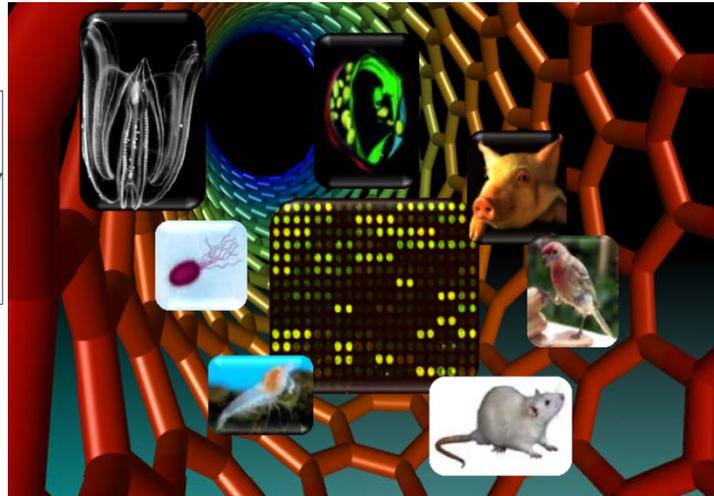


Biotechnology

Fostering discovery, development, bioengineering and translational nanotherapeutic innovation at the interface of organismal, cellular and molecular biology and nanotechnology.

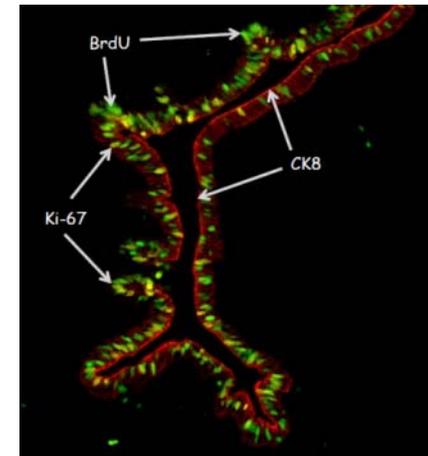


Designing phage-display based cancer nanotherapeutic drugs

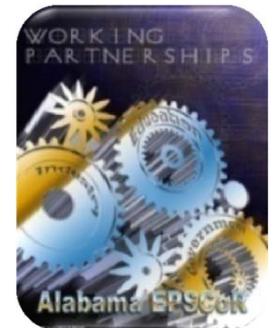


Bio-nano Connections

Developing molecular tools, multi-tiered organismal model systems and approaches to assessment of environmental impacts on living systems and the efficacy of nano-material applications *in vivo*.



Imaging and quantification of multiple gene expression events *in situ* using multi-spectral imaging

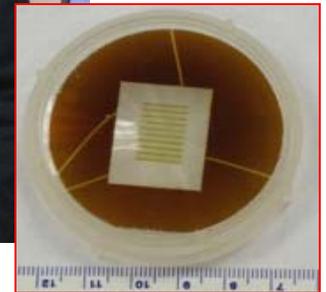


Optics and Sensors

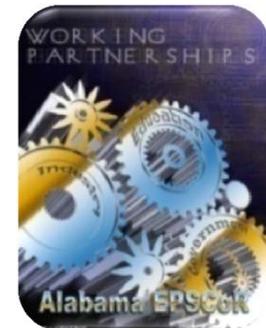
- First demonstration of mid-IR lasing in Cr:ZnSe waveguide structures
- First Lasing in the Cr:ZnSe:As₂S₃:As₂Se₃ composite materials
- Development of new, faster, on-site methods for characterization of environmental toxins released at environmental disasters and Homeland security events.



Sree Usha, a masters student at University of Alabama is working to identify secondary lines in the Mid-IR spectral range for organic compounds.

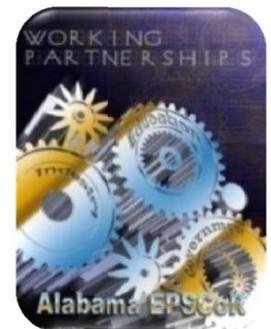


Graduate Assistant Jonathan Williams at University of Alabama at Birmingham fabricated active semiconductor waveguide structures for tunable Mid-IR lasers



Science and Technology Open-house

- Inform Larger Community
Research Generated
- K-12/Post-Secondary
Teachers and Students
- Civic/Government
Organizations
- Day Long Program
- Student
Posters/Presentations
- Includes REU, RET, REH





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About Us

Research Focus

Highlights

Internal Awards

Education and Outreach

Elive

Living on Earth I & II

All-Hands Meetings

Travel Procedures

Links

Archive

Site Map

Alaska EPSCoR
PO Box 757010
305 Eielson Building
University of Alaska Fairbanks
Fairbanks, AK USA
99775-7010

email: ua-epscor@alaska.edu
phone: 907.474.5895

Welcome to Alaska EPSCoR

Alaska EPSCoR is dedicated to improving Alaska's research capacity by distributing [National Science Foundation](#) and state funds. We support undergraduates, graduate students and faculty members throughout the University of Alaska system and conduct active K-12 education, public outreach and workforce development programs.

Alaska EPSCoR is currently in the fifth year of a research project entitled "Resilience and Vulnerability in a Rapidly Changing North: The Integration of Physical, Biological and Social Processes." Project research focuses on the rapid environmental and social changes taking place in Alaska and across the world's northern latitudes, and encompasses the fields of physical science, biology, and social science, as well as interdisciplinary research themes of Mobilities, Human-Hydrological Systems, and Ecosystem Services and Livelihoods. For more information, please see Alaska EPSCoR's [Project Summary](#).

A UA research team is putting together a proposal to fund Alaska EPSCoR from 2012-17. The proposal will be submitted to the National Science Foundation in fall 2011.

EPSCoR provides ICASS travel support

Alaska EPSCoR provided partial travel funding for 11 University of Alaska researchers to attend the Seventh

2012 Alaska EPSCoR Award Programs Announced

Alaska EPSCoR is pleased to announce a schedule of award programs available for the 2012 spring semester. Programs include undergraduate research stipends, graduate research fellowships, integrative faculty development awards, and travel grants (open to both students and faculty.)

Undergraduate and graduate award applications will be due to Alaska EPSCoR September 30; faculty and travel award applications will be due October 7. Integrative Faculty Development Award applications from UAA faculty only will be due to the UAA Office of Sponsored Programs (not to Alaska EPSCoR) September 30.

Please click the links below for forms and instructions:

[Undergraduate Research Stipends](#)

[Graduate Research Fellowships](#)

[Integrative Faculty Development Awards](#) (faculty will also need the [C&P Form](#))

[Travel Grants](#)

Applicants also must submit budget forms (student and faculty) and campus submission forms (UAA, UAF, and UAS.) Here are [instructions](#) for the UAA campus submission form.



www.alaska.edu/epscor

Alaska

Integrative Social-Ecological Study



**Resilience and Vulnerability in a Rapidly Changing North:
The Integration of Physical, Biological and Social Processes**

Living on Earth I and II



National Conferences on Social-Ecological Systems Research

“Climigration” project



**Establishing a human-rights framework for communities
relocating due to climate change**

Permafrost and Ground Ice Research



Studying interactions between permafrost and ecosystems, ground ice formations, and construction methods for building on permafrost



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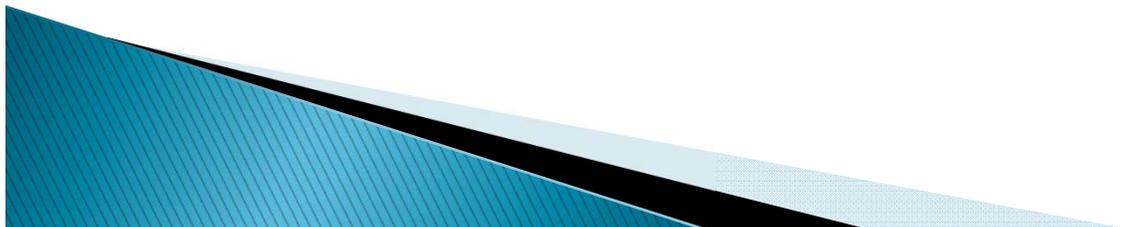
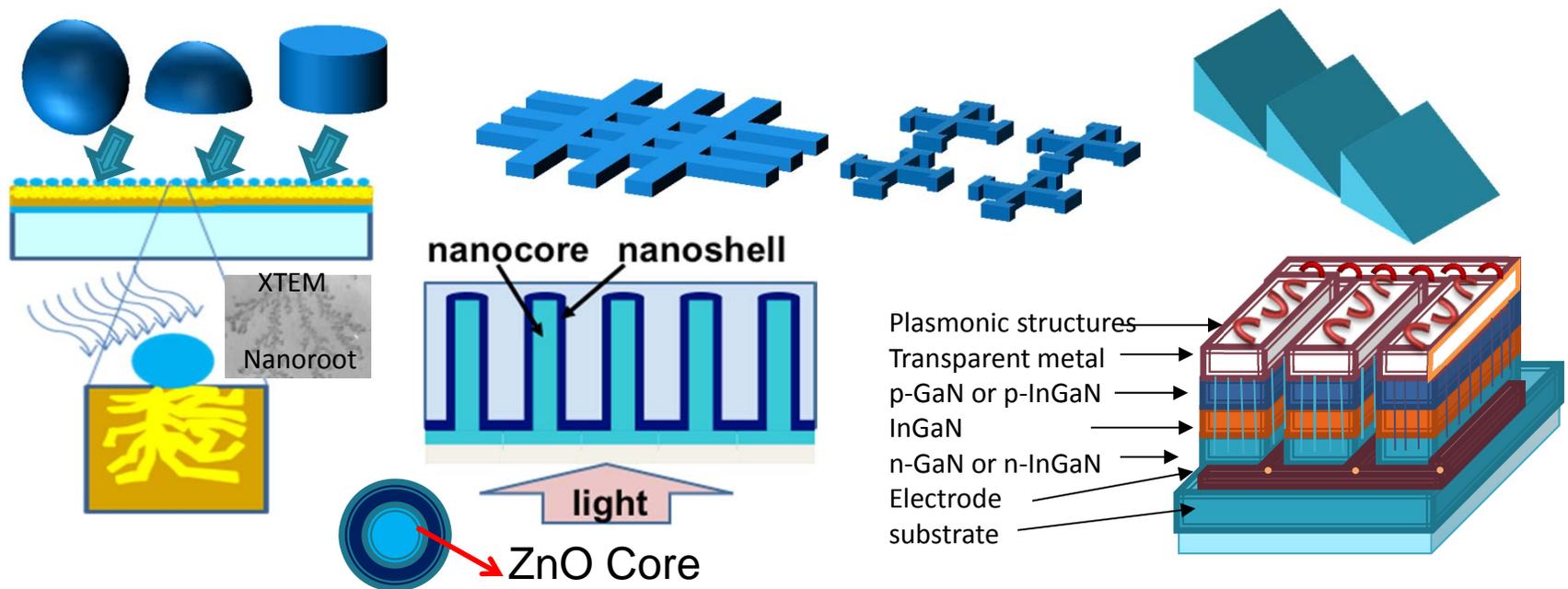


Arkansas EPSCoR ASSET Initiative Project

<http://www.arepscor.org>

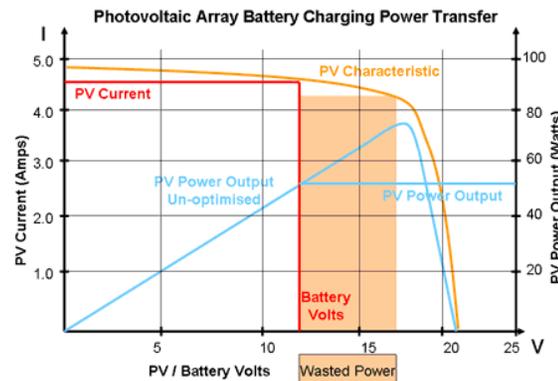
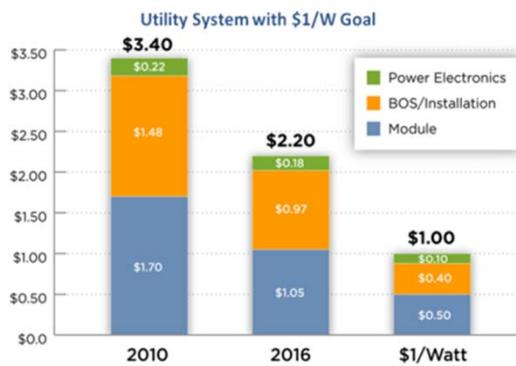
Arkansas

Solar Cell Research that Exploit Plasmonics and Nanophotonics

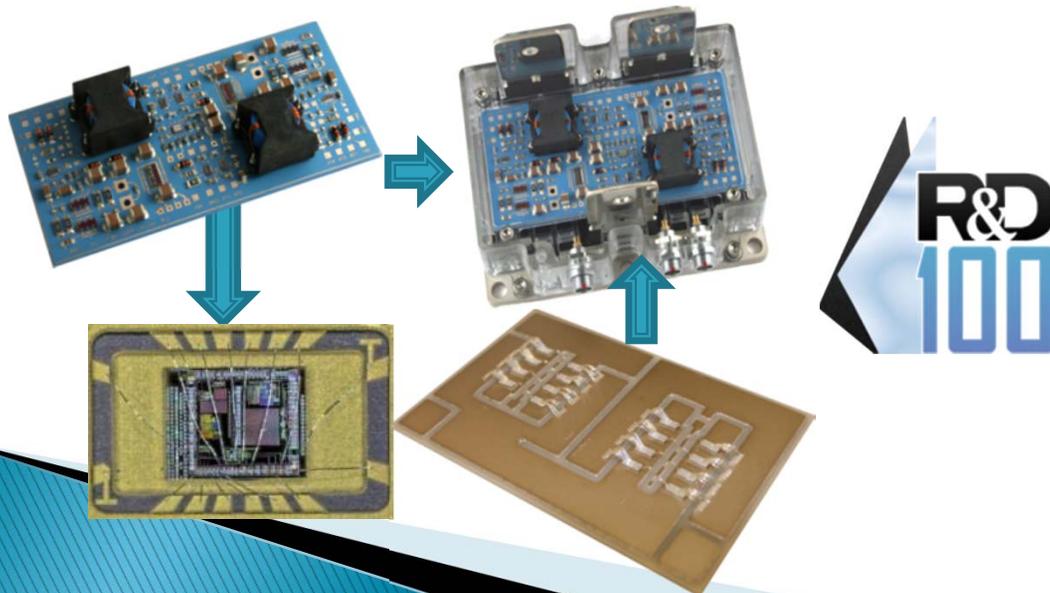


From Nanomaterials to Power Grid

Power Electronics



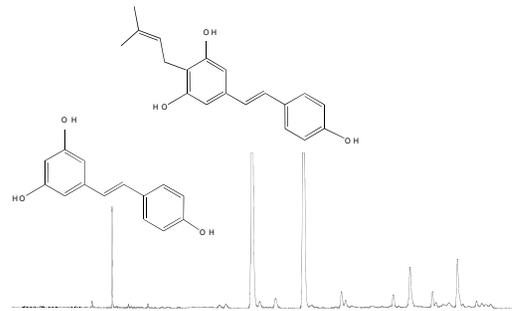
Grid Testing Facility



Plant Biology and Plant-based Bioproduction

Plants make hundreds of thousands of unique phytochemicals

- to impact their environment
- to prevent disease or predation
- to promote health



ASSET Promotes STEM Education





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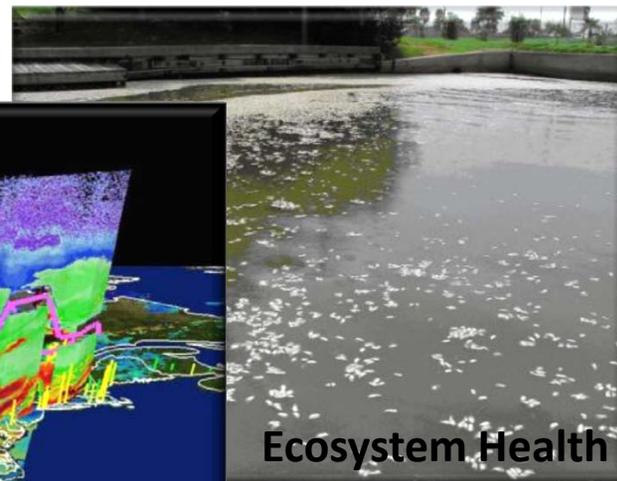
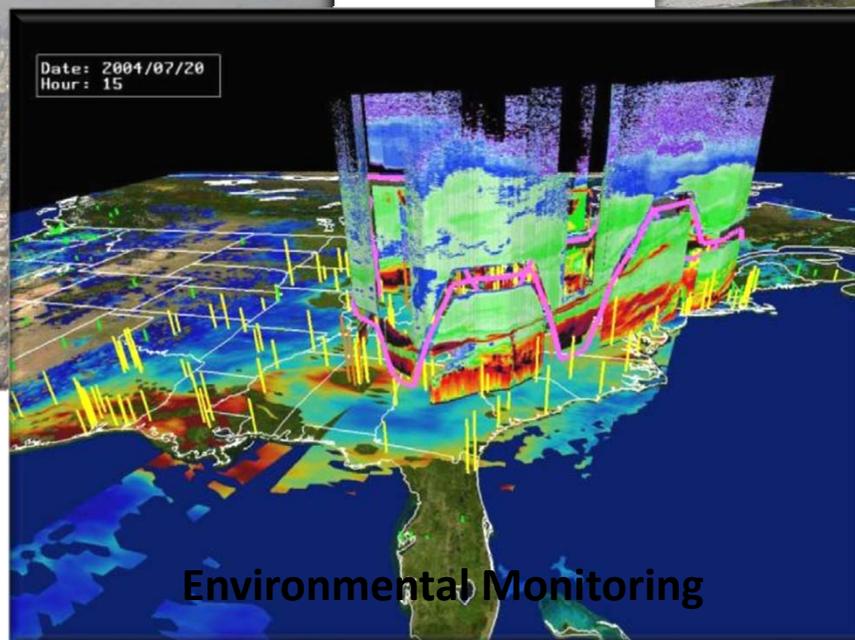


**Improving Delaware's Environment and Economy
Through Research and Education**



Expanding Research Capacity

Goal: Build a competitive and sustainable research capability in environmental sciences



Broadening Participation

Goal: Develop future scientists and technologists in increasing numbers and diversity to meet the challenges of the 21st century workforce and strengthen scientific literacy throughout the state.



Economic Development

Goal: Increase awareness and capability to pursue business opportunities.

Office of Economic Innovation and Partnerships enables

- Patents
- Business development
- SBIR awards

The screenshot shows the website for the Office of Economic Innovation & Partnerships (oeip) at the University of Delaware. The header includes the university logo and the oeip logo, with a search bar. A navigation menu lists: innovation & entrepreneurship, technology transfer, business development, partnerships, and impact. The main content area features a large heading "Enabling innovation" and a sub-heading "Establishing the 'Entrepreneurial Ecosystem'". Below this is a paragraph describing the office's role in supporting students, faculty, and researchers. A photo of two men is shown with the headline "DogfishHead named to SBA 100" and a sub-headline "Off-centered ales for off-centered people. The de facto mission statement of Dogfish Head Craft Brewery says it all...". A "Read More on SBDTC" link is provided. Below this is a "Spotlight: Marketing Intellectual Property" section for Evozym, an evolutionary biology company. The footer contains three sections: "creating a culture" with a quote from David Weir, "MARKET" with a shopping cart icon, and "forms policies template agreements patent filing process" with a person icon.

Communication and Dissemination

Home Science Education Ethics & Policy Economic Development FIND

Delaware EPSCoR
Improving Delaware's environment and economy through research and education

August 10, 2011

- ▲ About EPSCoR
- ▲ Partnering Institutions
- ▲ Funding Opportunities
- ▲ Contact Us

Delaware Experimental Program to Stimulate Competitive Research

SCIENCE

Delaware EPSCoR seeks to advance scientific research in three areas...
[Find out more](#)

EDUCATION

EPSCoR works with K-12 educators and students to increase awareness of and interest in science.
[Find out more](#)

ETHICS & POLICY

The ethical challenges posed by technological innovation frequently make headlines.
[Find out more](#)

ECONOMIC DEVELOPMENT

A major goal of Delaware EPSCoR program is to help the State's economy
[Find out more](#)

NEWS & EVENTS

Research rules

Thirty-nine undergraduate students from the University of Delaware, Delaware State University, Wesley College and Delaware Technical and Community College are spending the summer immersed in the nitty-gritty of environmental research with the support of the Delaware EPSCoR program. [Read full article](#)

An ultra-bright future

Graduate students in soil and environmental chemistry at the University of Delaware have logged an unusual record of success in gaining access to some of the most advanced scientific equipment in the world at national laboratories around the country. [Read full article](#)

Communicating science

June 27, 2011—"So, what do you do?" It's one of the most common questions posed in everyday life, but for scientists and engineers, answering can be problematic, requiring a quick assessment of the technological savvy of the questioner, whether that person is a relative, a colleague, a

www.epscor.udel.edu



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Login



Governor Abacrombie addresses EPSCoR State Conference
 Hawaii governor Neil Abacrombie addresses EPSCoR Statewide Conference via video message.

[Read more...](#)

- Hawaiian Coral Research
- DrupalCamp, where the EPSCoR website was demonstrated
- Governor addresses state conference

EPSCoR: Investing in Multidisciplinary University Activities III

EPSCoR: Investing in Multidisciplinary University Activities III

IMUA III: Pacific High Island Evolutionary Biogeography: Impacts of Invasive Species, Anthropogenic Activity and Climate Change on Hawaiian Focal Species

As a unique island ecosystem, Hawai'i possesses an extraordinary diversity of natural resources and attributes (geological, marine, terrestrial, atmospheric, and biological). The primary focus of IMUA III is to develop Hawai'i's scientific and technological capabilities in order to understand how invasive species, human-related activities and climate change impact the biodiversity, ecosystem function and current or potential use of certain endemic Hawaiian species. Results of these studies will be important for understanding both short-term and long-term changes in Hawai'i and the impacts of human activities on tropical ecosystems world-wide.

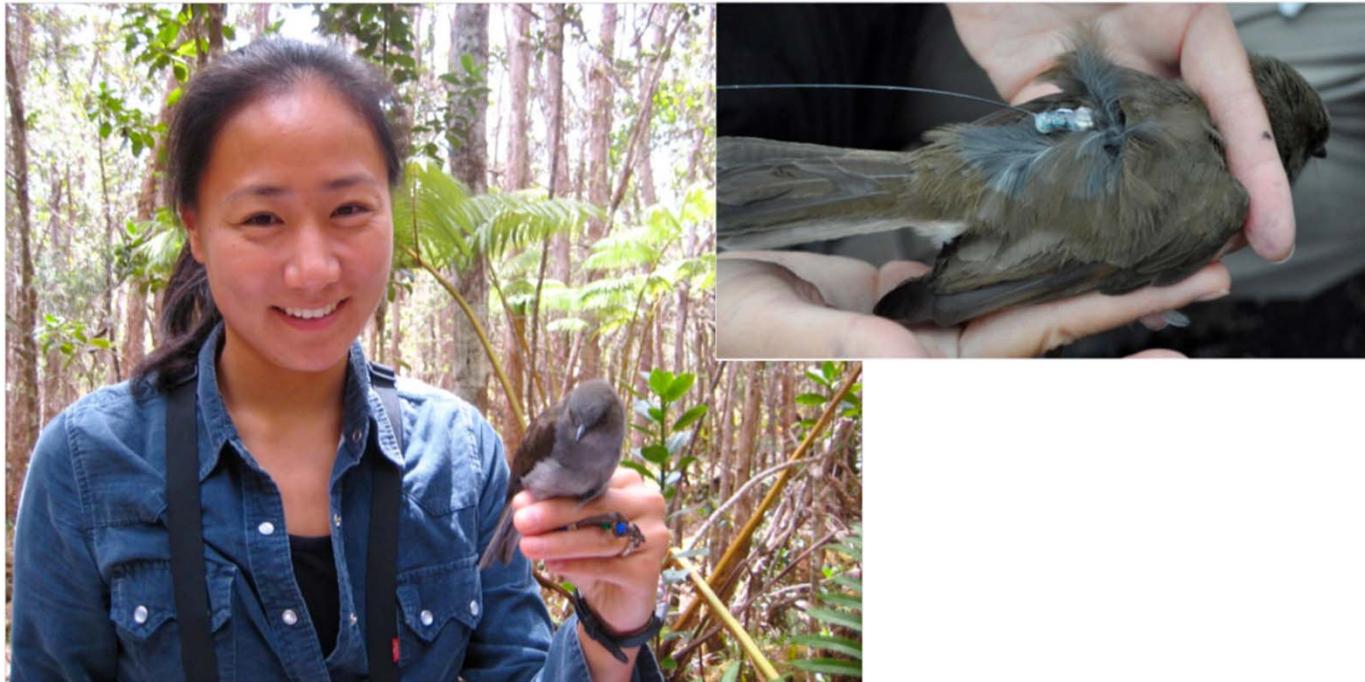
Upcoming Events

- From Service to Science, Iowa Campus Compact
 October 17, 2011 - 8:00pm - 9:00pm
 Iowa City Community College
- From Service to Science, Florida Campus Compact
 October 19, 2011 - 8:00am - October 21, 2011 - 7:40pm
 University of Central Florida
- Kaploliani CC STEM Opportunity Expo
 October 19, 2011 - 10:00am - 2:00pm
 Kaploliani Community College, Iliahi Bldg
- 22nd National NSF EPSCoR Conference
 October 24, 2011 - 7:30am - October 27, 2011 - 5:30pm
 Coeur d'Alene, ID
- From Service to Science, Florida Gulf Coast University
 October 24, 2011 - 8:00am - 4:00pm
 FGCU, Fort Myers, Florida
- Successful Support Strategies for Native Hawaiian Students (SACNAS conference)
 October 28, 2011 - 4:00pm - October 30, 2011 - 12:00pm
 San Jose, CA

www.epscor.hawaii.edu

Hawai'i

Cyberinfrastructure for Ecological Research



**Tracking Native 'Ōma'ō Movements and Seed Dispersal Using
Real-time Radio Transmitters**

Climate Change & Ecosystem Response



**Building Capacity for Research and Education Through a
Climate-Ecosystem Observatory**

Ecological Genomics and Metabolomics



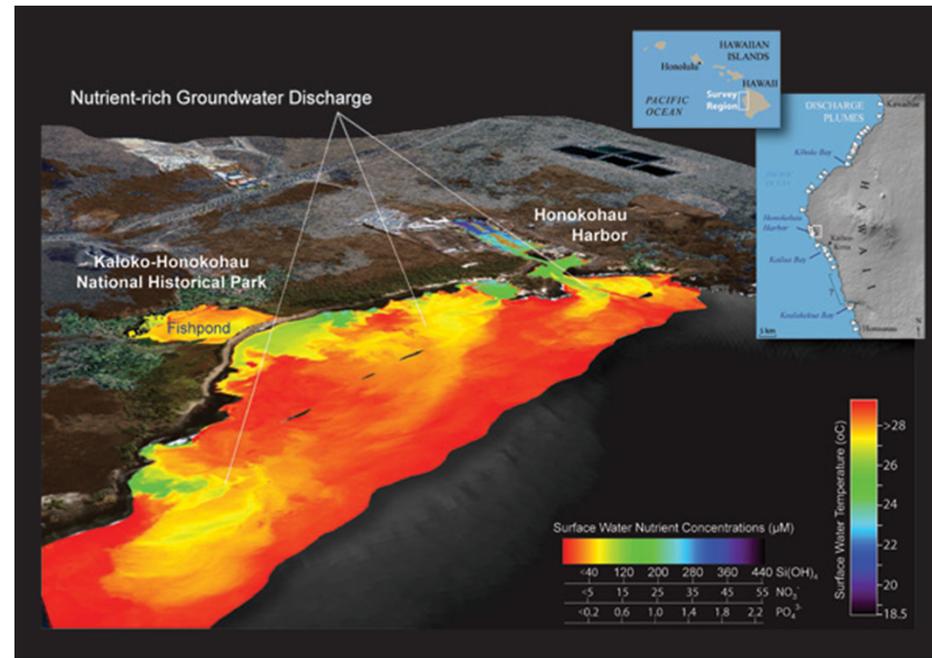
Phenotypic and Genetic Responses of Native Hawaiian Plant and Animal Species to Environmental Change

Mānowai o Hanakahi (The Channeled Streams of Hanakahi)



**Engaging Underrepresented Middle School Minority Students
in Culturally Sensitive Research Programs**

Environmental Dynamics & Groundwater Modeling



Submarine Groundwater Discharge & Associated Nutrient Fluxes in Regions of Honokōhau Harbor and Kīholo Bay



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Hands-On Science for Native American Students



Accepting REU Applications

Currently accepting applications for Research Experiences for Undergraduates (REU). Up to \$5,000 per year will be provided to allow university students from UI, OSU, or ISU to work on research projects during their summer vacation at Idaho Researcher in a Classroom (IRAC). Information available on the [epscoridaho.org](#) website.



Fall 2010 Newsletter

The latest edition of Idaho EPSCoR newsletter is now available on the [epscoridaho.org](#) website.



INSIDE IDAHO

INSIDE Idaho is the official governmental clearinghouse for the State of Idaho and provides a comprehensive governmental digital library. INSIDE Idaho website link is available on the [www.epscoridaho.org](#)

Events

[2010 Annual EPSCoR Conference](#)
October 24 - October 27, 2010 - Coeur d'Alene, Idaho

[2010 Annual EPSCoR In-State Professional Development Meeting](#)
April 8, 2011 - Arco, Arco, Idaho

[2010 EPSCoR Workshop](#)
October 20-21, 2010 - Idaho Falls, Idaho

News

McCall Outdoor Science School Offers Winter Environmental Education to State Teachers
The McCall Outdoor Science School is offering a winter science faculty development course and winter research camps. This faculty course is open to Idaho teachers and will be held at the University of Idaho McCall Field Campus in McCall, Feb. 25-27.
[View More](#)

Podcasts

[Highlight: Idaho Teacher Workshops at Coeur d'Alene Camp](#)

www.uidaho.edu/epscor

Idaho

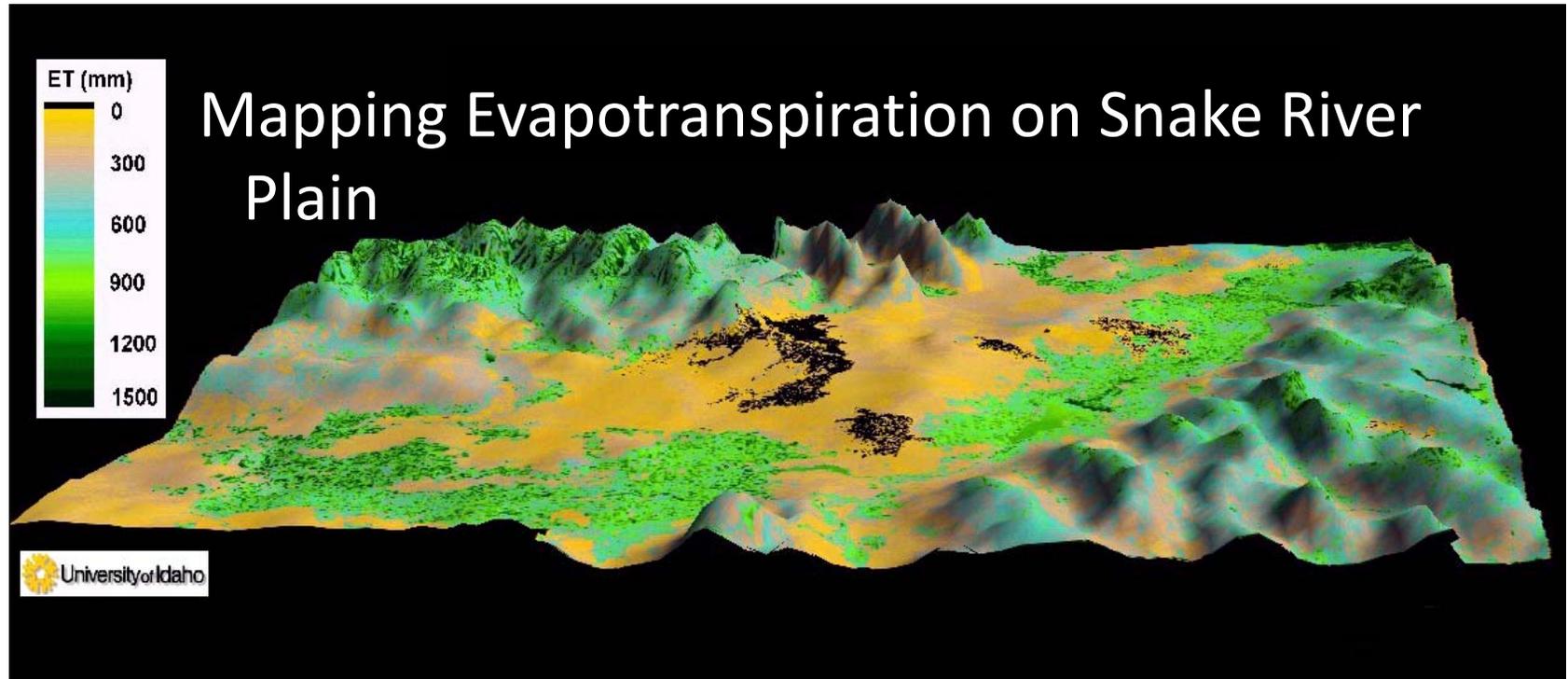
McCall Outdoor Science School – MOSS



**Increasing Scientific Literacy for 7th-12th graders
and Idaho K-12 Teachers**



Hydroclimatology Research



Modeling complex hydrologic systems with focus on surface-groundwater connections, evapotranspiration, and plant-soil-water feedbacks



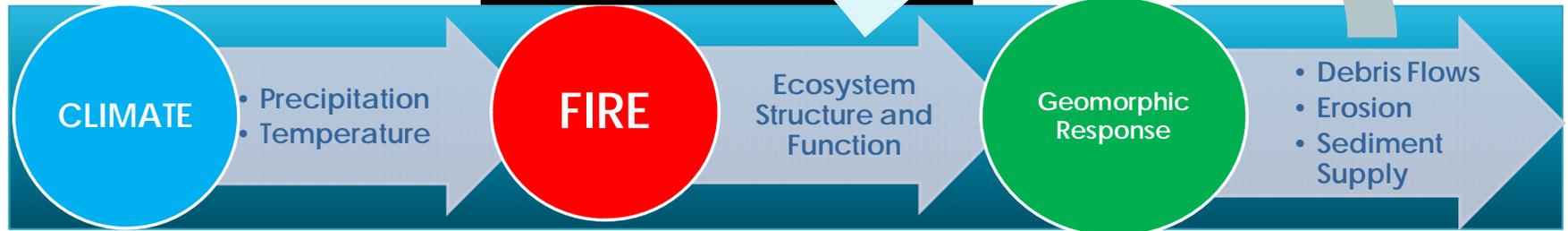
Collaborative Research on Ecological Change



Ben Crosby, ISU



Colden Baxter, ISU



Jen Pierce, BSU



Elowyn Yager, UI



New Faculty Positions



One-third of Track 1 RII funding invested in 10 new tenure-track faculty positions in Idaho.





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EXPERIMENTAL PROGRAM TO STIMULATE
COMPETITIVE RESEARCH

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HOME

[ABOUT US](#)

INFRASTRUCTURE
IMPROVEMENT

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[CYBERCOMMONS](#)

[PRAIRIE LIGHT](#)

FUNDING
OPPORTUNITIES

NEWS & EVENTS

PUBLICATIONS

LINKS

KANSAS LINKS

[Kansas S & T Plan
\(Roadmap - PDF\)](#)

[Economic
Development - KTEC](#)

[Kansas Colleges and
Universities](#)

Latest News & Events...



Does crop irrigation cool surface temperatures?

Research Adventures in a Blog from Norway

Paula Smith, a KU graduate student in geography and mentor for the **Haskell Environmental Studies Research (HERS) Institute**, traveled to northern Norway last spring to conduct research for her

Kansas NSF EPSCoR
2021 Constant Ave.
University of Kansas
Lawrence, KS
66047-3729
785-864-3096

Special
Announcements

September
30, 2011

[CyberCommons
for Ecological
Informatics
Symposium -
Norman, OK](#)

September
10, 2011

[Girl Scouts -
Explore the Konza
Prairie -
Manhattan, KS](#)

Kansas

<http://www.nsfepscor.ku.edu/>

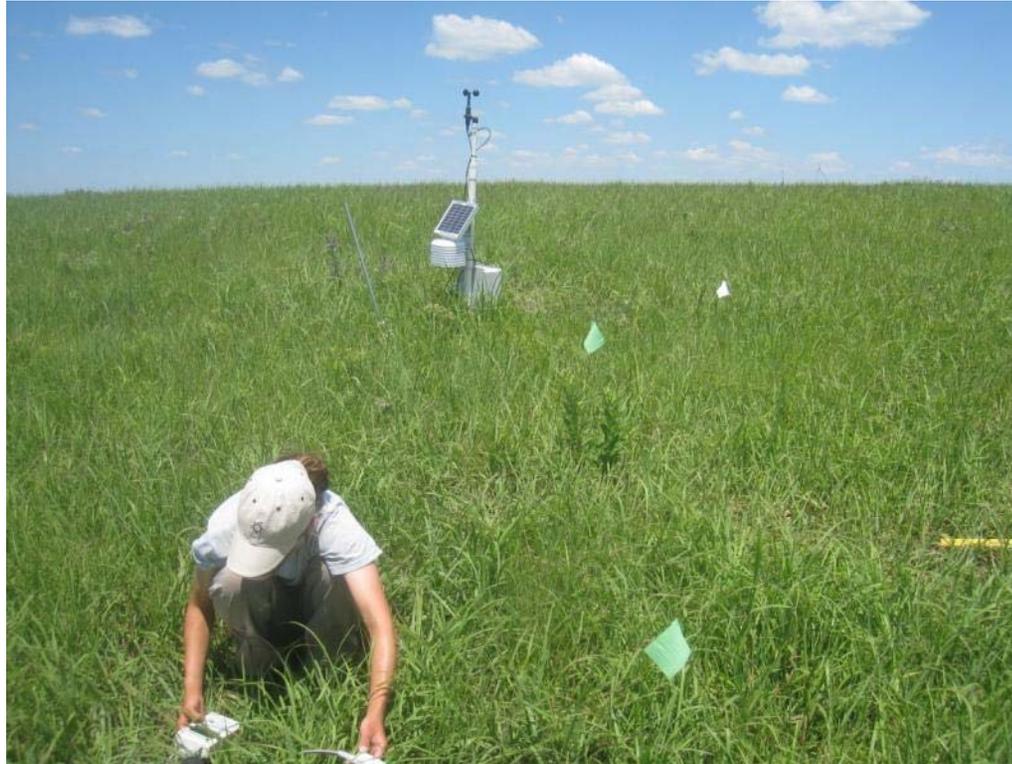
Climate and Energy Science



Linkages between climate and energy science are being established to better address issues involving renewable energy and the influence of climate variability on agriculture.



A cyberCommons for Ecological Forecasting



EPSCoR scientists in Kansas and Oklahoma are developing a new cyber network to share ecological forecasting data much more quickly and easily.



Cyberconnectivity vastly improved in Kansas



The shared network that connects all Kansas institutions of higher education, KanREN (the Kansas Research and Education Network), has been upgraded from 2 to 10 Gbps, a 500% increase.



Pathways to STEM careers for Native Americans



Several former Pathways students from Haskell Indian Nations University are pursuing graduate degrees in science and engineering.





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Announcements

[Now accepting RSP proposals](#)



"Spin Doctors" Look to Revolutionize Information Storage and Electronic Devices

The Kentucky NSF EPSCoR is supporting a major initiative to create a Center for Advanced Materials (CAM). More than \$5 million of state, federal (#0814194) and institutional support will be invested through 2013 to attract outstanding research faculty and students to Kentucky to create and study novel materials. ([read more](#))



Graduate Student Spotlight: Oleksandr Korneta

([read more](#))



The Science of Small makes for a Big Event

Participating in the NanoDays event has become an annual trek for many of the researchers and students supported by EPSCoR, which is building research efforts in physics, chemistry, bioengineering and other scientific areas that make use of nanotechnology. ([read more](#))



Novel Materials Workshop Treks to New Locale

The Center for Advanced Materials (CAM), an initiative of the KY NSF EPSCoR, is organizing an international workshop on novel materials to take place in Wuhan, China this summer. ([read more](#))



Early Success for EPSCoR CAM Faculty

Dr. Ribhu Kaul, a faculty member in the University of Kentucky (UK) Physics Department, recently received a CAREER award from the National Science Foundation-"the NSF's most prestigious awards in support of junior faculty who exemplify the role of teacher-scholars through outstanding research, excellent education and the integration of education and research within the context of the mission of their organizations." ([read more](#))

[Current Success Stories](#)

Kentucky NSF EPSCoR
2624 Research Park Dr
Suite 106
Lexington, KY 40511
epscor@uky.edu
859-257-0350

KY Statewide EPSCoR
Office
www.kyepscor.org

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www.kynsfepscor.org

Kentucky

Center for Advanced Materials



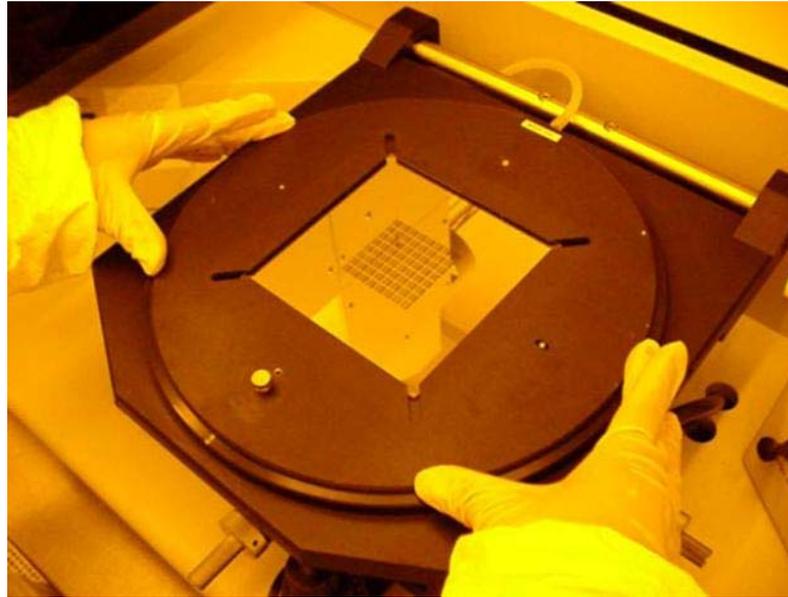
2nd Workshop on Novel Electronic Materials. KY NSF EPSCoR is providing support to develop a Center for Advanced Materials in the state as part of a comprehensive, multidisciplinary research program to synthesize and characterize novel materials.

Bioengineering Platforms



Faculty members from the Universities of Louisville and Kentucky are collaborating to develop a nationally recognized center focused on understanding cellular and molecular signaling processes with real-time spatial and temporal resolution.

Kentucky NanoNET

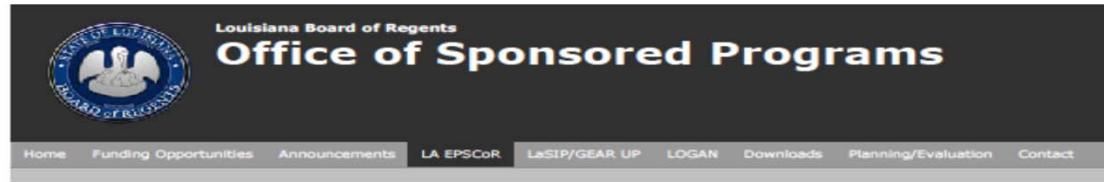


Kentucky is developing a network of resources and tools for nanoscience researchers (kynanonet.org), including fabricating high resolution photomasks, access to commercial design and fabrication software, and statewide equipment/people databases.

Ecological Genomics



A diverse group of researchers from institutions across Kentucky are developing a nationally competitive ecological genomics program to studying a number of scientific areas—from microbial communities and insects to plants, animals and people, there is an increasing need to analyze and understand genomic and ecological factors.



WHAT IS LOUISIANA EPSCoR?

As early as FY 1988-89, the Board was co-sponsoring research projects with the National Science Foundation (NSF) and supporting the development of Louisiana's scientific research and educational infrastructure under NSF's Experimental Program to Stimulate Competitive Research (EPSCoR). The Board's involvement in EPSCoR has grown over the years to include programs with NASA, the Department of Energy (DOE), the Department of Defense (DoD), the Environmental Protection Agency (EPA), and the National Institutes of Health (NIH).

EPSCoR is designed to build and expand the science and engineering research, education, and technology capabilities in states that have historically received lesser amounts of federal research and development (R&D) funding. EPSCoR's goal is to establish and strengthen collaborations among the State's R&D constituents in order to:

- Become more competitive in gaining national research and development support;
- Increase science and technology transfer activities with business and industry; and
- Educate larger numbers of science and engineering undergraduate and graduate students, especially minorities.

To help accomplish these goals, Louisiana EPSCoR strives to:

- Identify research strengths within the State;
- Foster research competitiveness among faculty;
- Leverage State government R&D investments; and
- Change the State's research culture through promotion of multi-institutional collaborations.

Available EPSCoR Programs

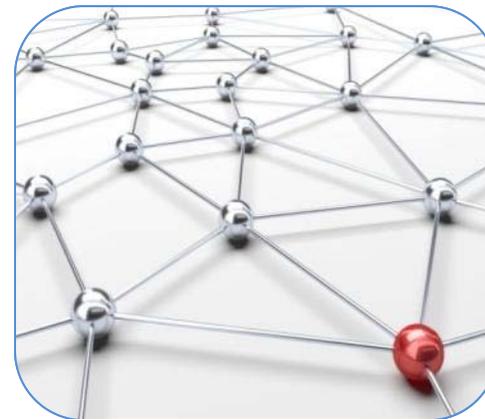
<http://web.laregents.org/la-epscor>

Louisiana

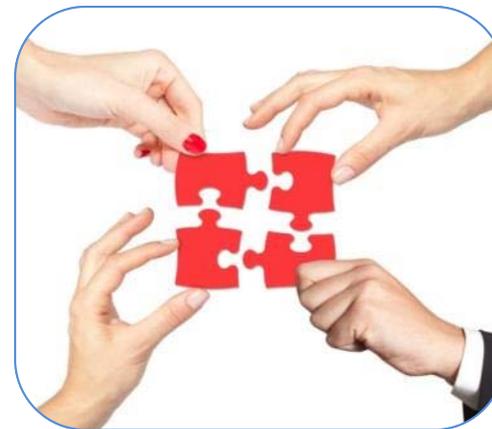


LA EPSCoR: Catalyst for Collaboration

LA EPSCoR has broken down boundaries between campuses.



LA EPSCoR is a proven catalyst for achieving increased statewide collaboration and national competitiveness.



Research on Computational Materials Science

Establishment of...



To make transformative advances in materials science research and education through a sustained multidisciplinary and multi-institutional alliance of researchers.



Speaking of Science (SoS) Program

SoS is one of the many programs administered by Louisiana EPSCoR. The program provides faculty speakers to K-12 schools free of charge.

13,000+

Students reached in the last 5 years



Pilot Funding for New Research (Pfund)



Peer reviewed and competitive seed grants to:

- Explore new ideas
- Enhance research focus
- Keep pace with cutting-edge techniques





22nd National NSF EPSCoR Conference

Coeur d'Alene, Idaho

October 24-27, 2011

**Welcome to the
22nd National NSF EPSCoR Conference**

October 24 - 27, 2010, Coeur d'Alene, Idaho



Maine EPSCoR

Building capacity and competitiveness in Maine since 1980 through innovative programs in research and education.

www.umaine.edu/epscor

The screenshot displays the Maine EPSCoR website interface. On the left is a vertical navigation menu with the following items: EPSCoR Links, Home, About EPSCoR/IDEA Programs, Maine EPSCoR Programs, Maine EPSCoR Outreach Partners, News, Events, & Resources, Maine EPSCoR Contact Information, Funding Opportunities Database, UMaine ORSP, UMaine VPR, UN Office of Research & Economic Development, and UMaine Home Page. Below the menu is a 'Quicklinks' dropdown.

The main content area features several sections:

- EPSCoR** header with a lighthouse graphic.
- Maine EPSCoR Sustainability Solutions Initiative (SSI)** section with links for: General Information on Initiative, Sustainability Solutions website, SSI Team Members, Join In to Database, and SSI Resources.
- Sustainable Maine** section with a link: "Click here for 'Sustainable Maine'".
- Maine EPSCoR STEM Education & Workforce Development** section with a note: "Grant opportunities for schools & partnerships are pending" and links for: Maine STEM Collaborative, 2010 STEM Summit Report, and Maine STEM Initiative.
- 2011 Maine EPSCoR State Conference** section: September 26, 2011, Wells Conference Center, University of Maine, Orono, ME. Includes a link for presentations and posters (coming soon).
- Maine EPSCoR Cyberinfrastructure** section with links for: NSE EPSCoR RII Track 2: Northeast Cyberinfrastructure Consortium Project (NECC) and NSF EPSCoR C2 Project.
- A section titled "Visit our YouTube channel to see more about our Maine EPSCoR projects:" with a video player showing a presentation.



Maine's Sustainability Solutions Initiative: innovation through sustainability science



➤ NSF EPSCoR Track1 RII project examining ecological, social, & economic issues in order to develop solutions for sustainability for Maine

➤ 12 Maine colleges & universities collaborating on research & education in sustainability science



Maine's Sustainability Science approach:



- Public stakeholders help drive the research questions
 - Nexus of social-ecological systems, knowledge to action, and organizational innovation
 - Statewide landscape change model looks at intersection of urbanization, forest ecosystem management, and climate/energy



Maine's sustainability research portfolio:



- Tidal power (alternative energy)
- Tribal Community Brown Ash Project
- Extreme climate events (rising sea levels/storm water)
- Lake, river & watershed issues (pollution, vernal pools, dams)
 - And more...



Maine's STEM Education & Workforce Development:



- supporting and training over 110 faculty and 220 student research interns each year
 - Special STEM programs for Native Americans, women & girls, and youth with disabilities
 - Statewide engagement through the Maine STEM Collaborative





22nd National NSF EPSCoR Conference

Coeur d'Alene, Idaho

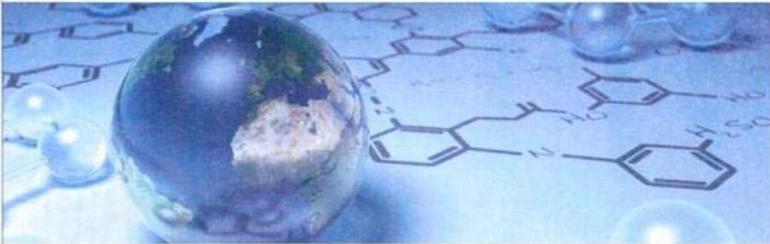
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MISSISSIPPI EPSCoR Experimental Program to Stimulate Competitive Research

SEARCH...



Welcome

The Mississippi EPSCoR/IDEA program identifies, develops, and uses academic science and technology resources to increase Mississippi's research and development competitiveness and support economic growth through the state's colleges and universities, their science and engineering faculty, and their students. The Mississippi EPSCoR program is enhancing valuable resources that can influence Mississippi's research capacity in the 21st century.

Increasing Mississippi's scientific and technological research competitiveness is critical. The EPSCoR program utilizes the science and technology resources at Mississippi State University, the University of Mississippi, the University of Southern Mississippi, and Jackson State University to stimulate sustainable science and technology infrastructure improvements at these institutions to accelerate the ability of their researchers to compete for federal and private sector research and development funding.

Mississippi EPSCoR
Presents the
2011 EPSCoR Fall Forum
September 20, 2011
on the campus of
The University of Mississippi
Featuring
1981 Nobel Prize Winner for Chemistry
Roald Hoffmann

MSEPCoR News

- [MS EPSCoR Researcher Dr. Keisha Walters discusses Biodegradable Plastics on MPE Radio](#)
- [Walters selected for national engineering education program](#)
- [Mississippi Best Robotics Competition is Huge Success](#)
- [Local teacher\(s\) hone\(s\) high-tech skills at MSU workshop](#)
- [MS EPSCoR Computational Science Workshop held at MSU](#)
- [NVAC Academic Outreach Efforts](#)
- [USM Researchers Investigate Collaborations in Canada](#)
- [EPSCoR Undergraduate Researcher](#)

2011 Mississippi EPSCoR Fall Forum
University of Mississippi
September 2011
A draft agenda can be found [here](#)

2009 - 2015 NSF EPSCoR: Modeling and Simulation of Complex Systems
[Project Summary](#)

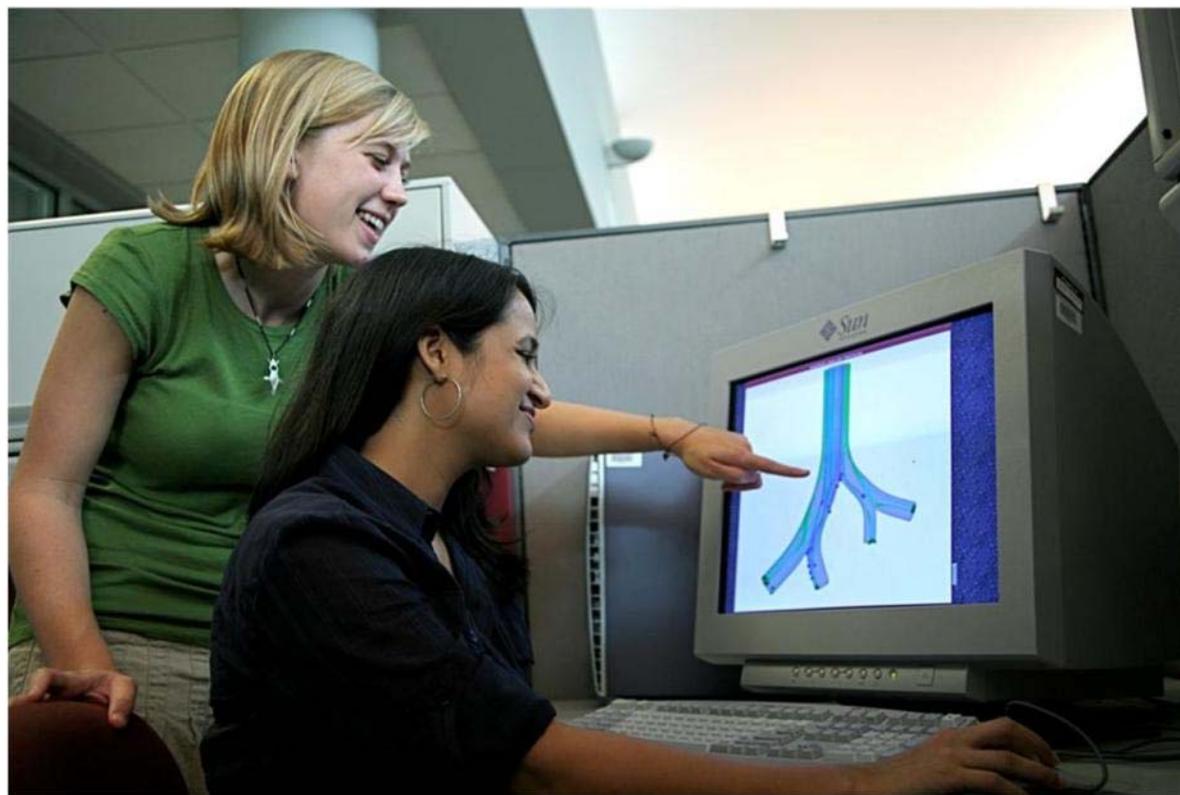


hummod

<http://www.msepscior.org/>

Mississippi

Modeling and Simulation of Complex Systems



Collaborative Research in Computational Chemistry, Computational Biology, and Biological Systems Simulation

Ward Steward Middle School STEM Outreach



Engaging students in scientific investigation at an early age.



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Mtnsfepscor.org

October 24-27, 2011, Coeur d'Alene, Idaho

Research Infrastructure Improvement



Since 2001 Montana NSF EPSCoR has supported:

- 87 New Faculty Hires
- 258 Graduate Students
- Over 1340 Undergraduate Students



Native American Research Laboratory



Dedicated to increasing the number of Native students pursuing advanced degrees in the sciences.



Tribal College Partnerships



Involving tribal college faculty and Native students in research projects throughout the state.



Institute of the Environment

Proposed Montana Institute of the Environment

MONTANA STATE UNIVERSITY The University of Montana

HOME ABOUT SCIENCE NEWS



Upper Missouri
Tobacco Root Mountains

[Home](#) » Proposed Montana Institute of the Environment ...

Proposed Montana Institute of the Environment (IoE)



[Montana State University](#) and the [University of Montana](#) are working together to enhance environmental and ecosystem science research, education, and engagement across the state via a [Montana University System \(MUS\) Consortium for Ecosystem Research and Education \(MtCERE\)](#). MtCERE has proposed the creation of a new statewide "Institute of the Environment."

Environmental and Ecosystem Science is one of five major research areas identified in the January 2011 Montana University System Science and Technology Plan:

"Montana is in a unique position of having one of the most pristine environments in the nation while exhibiting significant signs of environmental stress from our history of dependence on an extractive economy. This provides both the opportunity and the responsibility to conduct leading research on our own and similar environments around the world. The challenge will be to capitalize on what the environment has to offer while preserving for generations to come the lifestyle that has become a standard of Montana living."

2011-16 RII Project - A statewide infrastructure for research collaboration and cooperation





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Nebraska EPSCoR

The screenshot shows the homepage of the Nebraska EPSCoR website. At the top, there is a blue header with the EPSCoR logo and the text "IDeA EPSCoR NEBRASKA Advancing Nebraska Through Transformative Research & Workforce Development". Below the header is a navigation menu on the left with links for "EPSCoR Home", "About Us", "Events & Highlights", "Federal Projects", "Funding Opportunities", "Education & Outreach", and "Forms & Publications". The main content area features a large image of two scientists in a lab, followed by a "Welcome to Nebraska EPSCoR/IDeA" section. This section contains three paragraphs of text describing the mission of the programs, the types of funding provided, and the history of the programs. To the right of the main content is a sidebar with "Announcements" (including "Nebraska Research & Innovation Conference 2011" and "October 3 Deadline for FIRST Awards Pre-Proposals") and "Related Links" (including "Young Nebraska Scientist" and "NRIC Nebraska Research & Innovation Conference"). At the bottom of the page, there are logos for NSF, IDeA, EPSCoR, and NASA, along with the text "IDeA - Institutional Development Award Program | EPSCoR - Experimental Program to Stimulate Competitive Research" and "© 2009 Nebraska EPSCoR".

*Advancing
Nebraska
Through
Transformative
Research and
Workforce
Development*

<http://epscor.unl.edu>



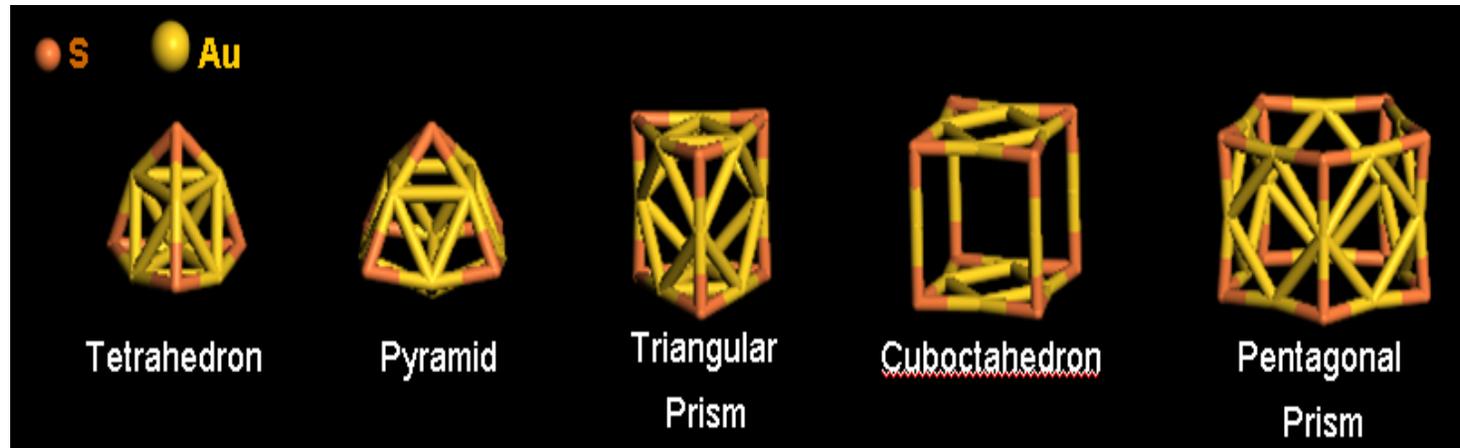
Nanohybrid Materials Research



Nebraska scientists explore and develop next-generation nanosensors.



Nanoscience for Energy Technologies

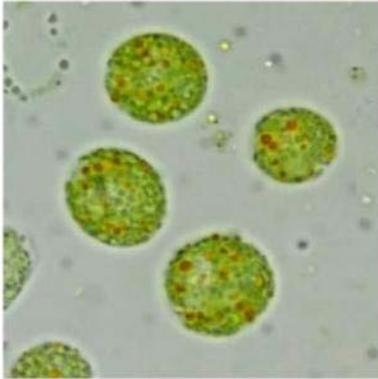


Nebraska scientists create and explore nanomaterials to improve energy efficiency in electronics, and investigate nanocatalysts for energy applications.



Algal Biology and Biotechnology

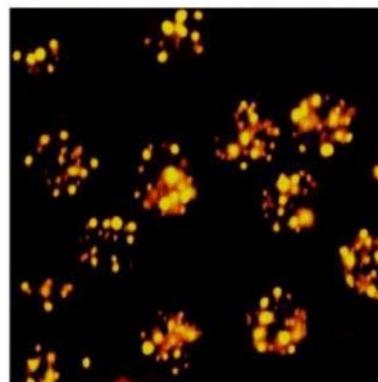
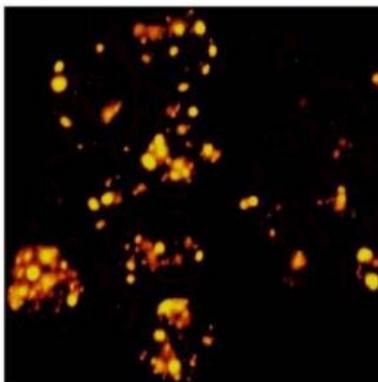
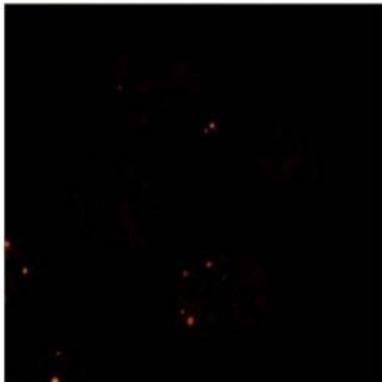
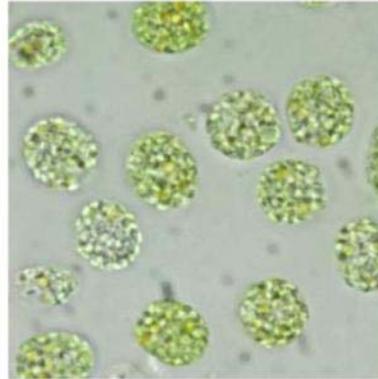
Wild type



RNAi-B1



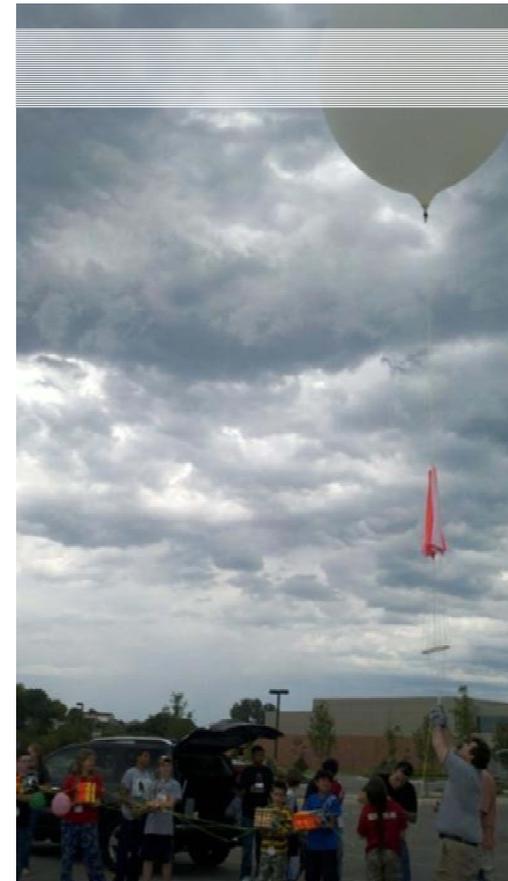
RNAi-S1



Nebraska scientists conduct fundamental research on algae in support of algal biofuels.



Young Nebraska Scientists Program



We nurture the pipeline of future scientists by offering high school research internships and summer camps for middle and high school students.





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September 27, 2011

Info for College Students

Resources for Faculty

Home

What's EPSCoR?

Research

Outreach

Partnerships

About Us

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7th Annual K-12 Teacher Nanotechnology Conference

Would you put a chip in Grandpa to locate him in case he was lost? Wear a bracelet to earn a few bucks a month? Swipe an ID to ride the subway? The gadgets in our everyday lives are shrinking, thanks to nanotechnology. In New Hampshire, school teachers are learning ways to bring these exciting concepts into their classrooms.



NEWS

- Snow Research to Help Predict Flooding Events:** 8/25/11
 Researchers from UNH have been awarded a grant from NASA to support work using satellite remote sensing data that will help identify regions where springtime rain and snowmelt could lead to flood conditions. [more >>>](#)

- Citizen Science:** How a 8/25/11

EVENTS

- National NSF EPSCoR Conference:** Coeur d'Alene, Idaho, October 24-27, 2011. [more >>>](#) 10/24/11
- Promoting Access for Underrepresented Students:** Tuesday, October 11 from 9:30am to 11:30am at the Campus Compact for New Hampshire Offices in Concord. [more>>>](#) 10/11/11

HIGH PERFORMANCE COMPUTING

The NH Grid is a Linux grid composed of 252 cores, a resource available to support research at NH colleges and universities. [more >>>](#)

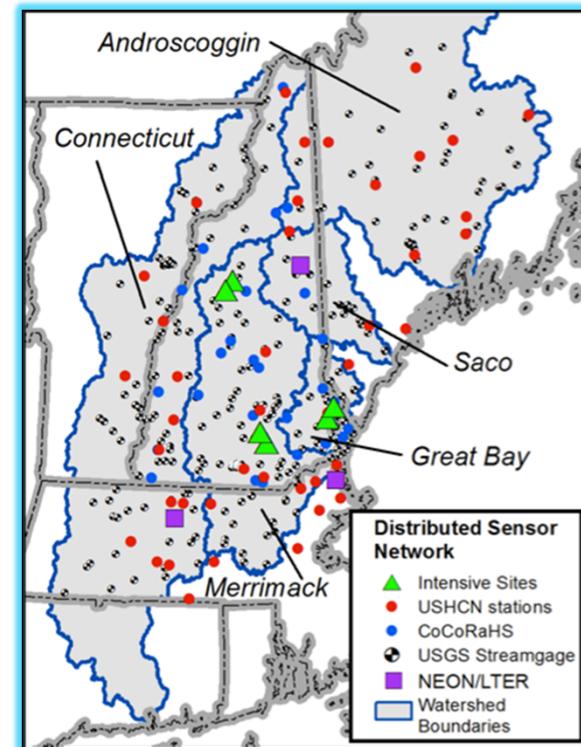


New Hampshire

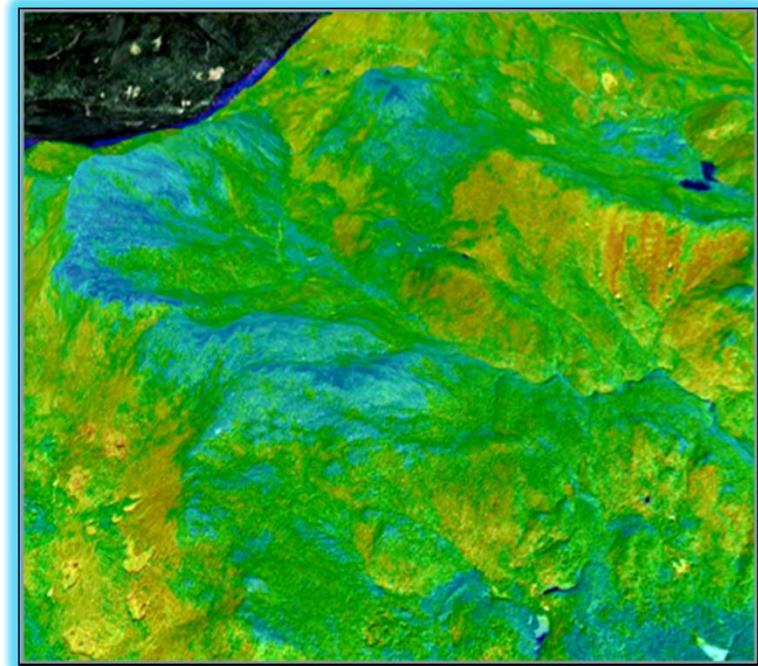
<http://www.epscor.unh.edu>

Interactions Among Climate, Land Use, Ecosystem Services and Society

- ▶ Integrated terrestrial and aquatic sensor networks
- ▶ Integrated climate, hydrological and ecosystem models
- ▶ Aircraft remote sensing platform



- ▶ How will changes in climate, climate variability, and biogeochemistry affect forest ecosystems?
- ▶ How do upstream uses impact downstream ecosystems and water uses?
- ▶ How do perceptions about environmental challenges vary?



Forest canopy, mid-summer
Hubbard Brook
Experimental Forest

Broadening Community Participation in STEM

- ▶ What does inclusive excellence mean for campuses and communities?
- ▶ Focus on communities that are under-served and under-resourced



Tech Camp's "Engineeristas"

- ▶ A one week camp for girls in grades 6 & 7 offered by the UNH College of Engineering and Physical Science
- ▶ Scholarships paid by NH EPSCoR



An Engineerista investigates slime



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New Mexico EPSCoR

Climate Change Impacts on New Mexico's Mountain Sources of Water



Search this site:

Climate Change Impacts on New Mexico's Mountain Sources of Water

[Home](#) [About NM EPSCoR](#) [Science Focus](#) [Education & Outreach](#) [For Researchers](#) [Data Portal](#) [Conferences](#)



EPSCoR News

[Announcing the 4th Annual Faculty Leadership Workshop!](#)
Posted: Oct 10 11

[Recently published paper by David Van Horn and colleagues](#)
Posted: Oct 04 11

[Use CI Training Funding for Conference on Global and Regional...](#)
Posted: Sep 21 11

Events - Mark Your Calendar!

[RII-4 Planning Meeting #2: Research Infrastructure and Cyberinfrastructure](#)
Friday, October 21, 10 AM-3 PM
Science and Technology Park Rotunda
Albuquerque, NM

[22nd Annual National EPSCoR Conference](#)
October 24-27, 2011. Coeur d'Alene, ID

[Community Engagement Meeting #3: Education & Outreach](#)
Monday, November 21, 10 AM-3 PM
UNM Continuing Education Bldg, Albuquerque, NM

[more](#)

Welcome to NM EPSCoR's Website!

New Mexico's Experimental Program to Stimulate Competitive Research (NM EPSCoR) is a multi-faceted program aimed at improving New Mexico's capacity to carry out scientific research. Funded by the National Science Foundation, the current project focuses on science research into the impacts of climate change on Northern New Mexico water resources by investing in the state's research infrastructure, cyber-infrastructure, and human infrastructure.

As a result of NM EPSCoR's investments, New Mexico's meteorological and hydrological observational network is now on a par with other Western States. We have provided information and education about climate change science to thousands of New Mexicans and have taken a leadership role in developing computational interoperability standards that allow for wider use and sharing of climate data. NM EPSCoR has worked to increase the diversity of NM's science-related workforce and provided new research experiences to undergraduate students across the state.

Learn more about NM EPSCoR through the links below:

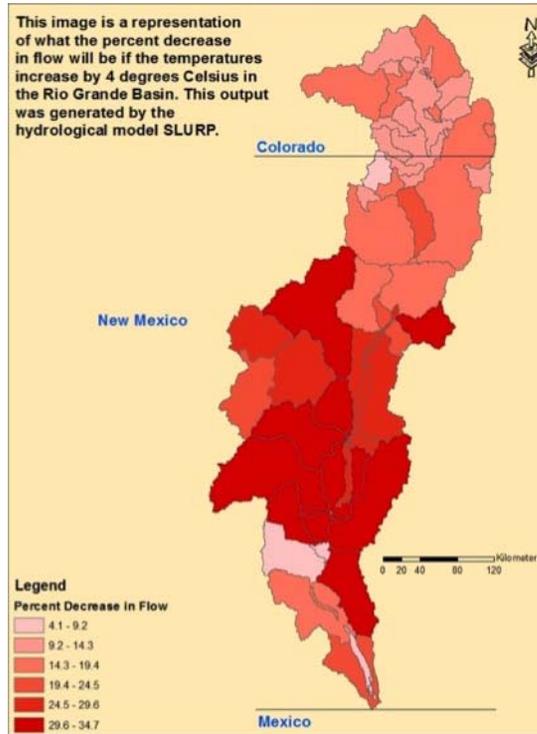
- **About NM EPSCoR:** Our mission and vision, information about project personnel and highlights of project achievements.
- **Science:** Information about each of the research components, including photos of researchers in action.
- **Education & Outreach:** Educational programs and resources for K-12 teachers and students, undergraduate students, graduate students, faculty, and the public.
- **For Researchers:** Links and resources for NM EPSCoR researchers and project personnel.



Student research at Valles Caldera National Preserve

www.nmepscor.org

Enhancing Climate and Hydrology Research Infrastructure



- ▶ Through improvement to research infrastructure, NM EPSCoR participants have filled “holes” in climate observation networks (including installation of meteorological stations), generated models for researchers and policy-makers, and collected data on groundwater upwelling and mountain runoff interactions with streams and groundwater.

Cross-Institution Collaboration & Water Quality Research



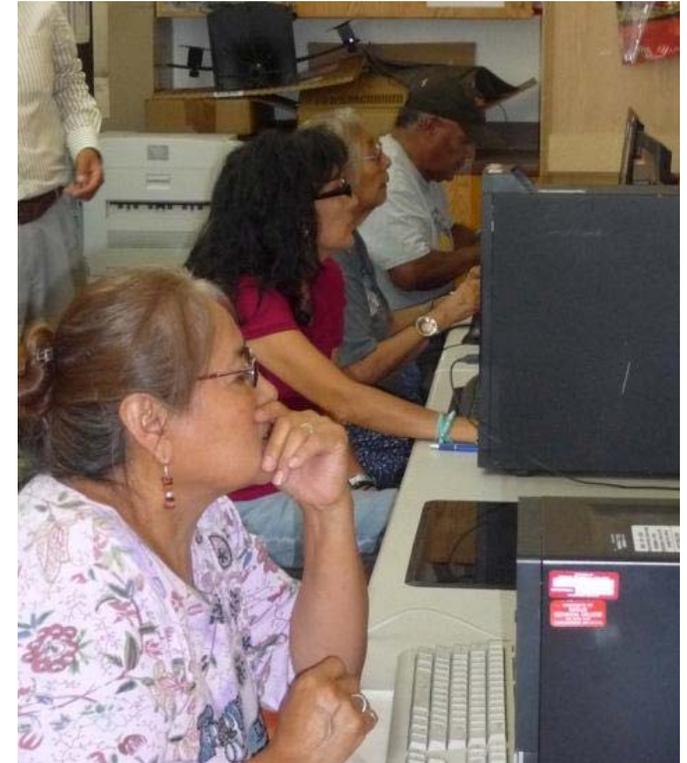
- ▶ Over the summer, students and faculty conducted research for annual Undergraduate Research Opportunity Program (UROP), and conducted a successful test deployment of Distributed Temperature Sensing system

Degrees of Change: New Mexico's Climate Forecast



- The EPSCoR-funded exhibit at the New Mexico Museum of Natural History and Science opened with an evening event on May 20, 2011, and a Climate Change Expo for the public on May 21, 2011.

Using Cyberinfrastructure for Rural Economic Development



- New Mexico EPSCoR has partnered with the Global Center for Cultural Entrepreneurship (GCCE) to bring Fast Forward New Mexico's free digital literacy training program to three New Mexico communities: Silver City, Crownpoint, and Española.



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Consistent with North Dakota State Goals



State Board of Higher Education Strategic Plan Priorities

- Agriculture
- Health Care
- Energy
- Life Sciences
- Advanced Technology



State Dept. of Commerce Target Industries

- Advanced manufacturing
- Energy
- Value-added agriculture
- Technology-based business

MISSION

- Increase North Dakota research capabilities in sustainable energy, chemicals, and advanced materials
- Develop clean technologies to improve economic development in ND
- Produce graduates qualified to work in emerging clean technology industries



Nurturing American Tribal Undergraduate Research and Education (NATURE)

ND Universities and Tribal Colleges



■ Fort Berthold Community College, New Town



■ Turtle Mountain Community College, Belcourt



■ Cankdeska Cikana Community College (Little Hoop), Fort Totten

Grand Forks
UND



■ United Tribes Technical College, Bismarck

Fargo
NDSU



■ Sitting Bull College, Fort Yates

Value Added

- ▶ State of ND provided cash to supplement NSF \$\$ each biennium since 1986; FY12–13 appropriation: \$7M





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Nevada Infrastructure for Climate Change Science, Education, and Outreach



- [HOME](#)
- [About Us](#)
- [Research](#)
- [Education Outreach Diversity](#)
- [Opportunities](#)
- [Resources](#)
- [Forms](#)
- [Search](#)



NSF Climate Change Research - Long Now Field Day July 2011

Welcome to the Nevada Infrastructure for Climate Change Science, Education and Outreach Website

On September 1, 2008, NSHE received an award of \$15 million from NSF EPSCoR. The five-year award will fund science, education, and outreach infrastructure at UNR, UNLV, DRI, NSC, and NSHE's community colleges for the study of climate change and its effects on Nevada.

This project is creating a statewide interdisciplinary program that stimulates transformative research, education, and outreach on the effects of regional climate change on ecosystem services (especially water resources) and support use of this knowledge by policy makers and stakeholders.



WHAT'S NEW

-New Climate Change Videos have been added to the [Video Channel at YouTube](#).

-Thank you for attending the EPSCoR Climate Change Science, Education & Outreach Seminar **Please fill out evaluation form for seminar series on September 7th, 2011**

-Request for Letters of Intent (LOI) and Pre-Proposals for the Nevada NSF EPSCoR RII Track-1 Program. [Please click here for information and documentation](#)

-NSF EPSCoR Undergraduate Research Opportunity Program 2011-2012 is now available. [Click here to download solicitation and cover page.](#)

-National Science Foundation's SEES Innovation Website "Monitoring Nevada's Changing Environment" highlight Z2611 submitted by the Ecology and Water components has been featured in the NSF SEES Innovation website.

-Long Now Field Day Participants Welcome Researchers from China and France



-NSF Conference: **Science: Becoming the Messenger Communicating Science to a Non-Technical Audience** - [Click here for more information and registration](#)

SUBSCRIBE

Sign up for SSPO and EPSCoR Updates, Funding Opportunities and more

Your email

Climate Change Learning Portal

MEDIA

Podcasts

Join Our Facebook Group

Seminar Series

Links: [Climate Change Home](#) | [About Us](#) | [Research](#) | [Education Outreach Diversity](#) | [Opportunities](#) | [Forms](#) | [Library](#) | [Committees](#) | [Search](#)

Other NSF Research Projects: [Tri-State Cyberinfrastructure Development](#) | [Cyber Connectivity](#)

[EPSCoR Home](#) | [Nevada System of Higher Education](#)

<http://www.nevada.edu/epscor/nsf/climate1/>



Nevada





Enhancement of Cyber Connectivity within the Nevada System of Higher Education



- Home
- About Us
- Research
- Education Outreach Diversity
- Opportunities
- Forms
- Library
- Committees
- Search



Cyber Connectivity

Welcome to the Cyber Connectivity Within the Nevada System of Higher Education Research Website

On September 1, 2010, the National Science Foundation's Experimental Program to Stimulate Competitive Research awarded \$1 million for up to two years to support the enhancement of cyber connectivity among educational institutions across the state.

NEWS WHAT'S NEW

-Request for Letters of Intent (LOI) and Pre-Proposals for the Nevada NSF EPSCoR RII Track-1 Program
[Please click here for information and documentation](#)

-NSF Conference: Science: Becoming the Messenger Communicating Science to a Non-Technical Audience <http://www.nevada.edu/epscor/cs/index.html>

-[Improve Your Cyberinfrastructure \(CI\) Skills](#)

-[Solicitation- IWG 201](#)

SUBSCRIBE

Sign up for SSPO and EPSCoR Updates, Funding Opportunities and more...

Your email

Climate Change Learning Portal

Links: [Cyber Connectivity Home](#) | [About Us](#) | [Research](#) | [Education Outreach Diversity](#) | [Opportunities](#) | [Forms](#) | [Library](#) | [Committees](#) | [Search](#)

Other NSF Research Projects: [Climate Change](#) | [Tri-State Cyberinfrastructure Development](#)

[EPSCoR Home](#) | [Nevada System of Higher Education](#)

<http://www.nevada.edu/epscor/nsf/cyberc2/>



Climate Change Research



Nevada Monitoring System to Assess Climate Variability and Change



Nevada Climate Change Portal

www.sensors.nevada.edu



The screenshot displays the Nevada Climate Change Portal website. At the top, the logo features a green leaf and the text 'ZCC CP NEVADA CLIMATE CHANGE PORTAL'. Below the logo is a navigation menu with links for 'THE PROJECT', 'RESEARCH SITES', 'DATA RESOURCES', 'NEVADA', 'LIBRARIES', 'CONTACT US', and 'HOME'. The main content area includes a 'MONITORING NEVADA: DATA RESOURCES' section with a graphic of a network map and a list of links: 'Introduction', 'Research Sites (NevCAN)', and 'Sensor Data'. A 'WELCOME TO THE NEVADA CLIMATE CHANGE PORTAL' section provides an overview of the project's goals and funding. A 'The Project Participants' section lists various institutions such as the Nevada System of Higher Education, Desert Research Institute, and several universities. A 'Synergistic Efforts' section features a globe icon and text about collaborative efforts. The footer includes logos for the participating organizations and the text 'NCCP is a collaborative effort among'.

Providing access to real-time and archived environmental data for scientists, land managers, educators, and students.



Learning Lab at Green Valley High School

Science Cyberlearning



Advancing science through wireless learning laboratories
for 9th – 12th graders.





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Promoting Innovative Research

Oklahoma EPSCoR's central goal is to increase the state's research competitiveness through strategic support of research instruments and facilities, research collaborations, and integrated education and research programs.



SEE MORE
 About EPSCoR BioFuels Research



Latest News

Online Cellulosic Bioenergy Curriculum Materials and Videos for Teachers

Tuesday, June 21, 2011

Free bioenergy curriculum materials and videos for teachers are now available online via the K20Alt site at <http://k20alt.ou.edu/journal/planting-fuel-photosynthesis/>. The materials...

[Read More >](#)

Meet the OK EPSCoR Researcher-of-the-Week: Dr. Laura Bartley

Sunday, June 19, 2011

EPSCoR Bioenergy Project YouTube Video: Dr. Laura Bartley Using Plants to Help Solve Energy Needs of the Future Dr. Laura Bartley, assistant professor of botany and microbiology at...

[Read More >](#)

Spring 2011 Oklahoma EPSCoR Newsletter

Tuesday, June 14, 2011

The spring 2011 Oklahoma EPSCoR newsletter is now available! Click here to access the file. Print copies may be requested by emailing gmler@okepscor.org.

[Read More >](#)

Research	Education	Public Outreach
 <ul style="list-style-type: none"> Bioenergy Research Biofuel Team Members Presentations Funding Opportunities 	 <ul style="list-style-type: none"> K-12 Students K-12 Teachers College Students Faculty Development 	 <ul style="list-style-type: none"> Outreach Cyber Infrastructure Economic Development News

www.okepscor.org

Oklahoma

BUILDING OKLAHOMA'S LEADERSHIP ROLE IN CELLULOSIC BIOENERGY



Discovering molecular mechanisms & tools for biomass development and its effective conversion to liquid fuels through genomics, functional genomics & genetic transformation approaches

BUILDING OKLAHOMA'S LEADERSHIP ROLE IN CELLULOSIC BIOENERGY



Developing new and improving existing microbial conversion and catalytic/thermo-chemical conversion processes to transform cellulosic biomass to liquid fuels

Women in Science Conference



Inspiring 6-12th grade girls to pursue STEM careers

Science Matters! Mobile Science Vehicle



This discovery-based mobile museum allows fifth-grade students in rural schools to experience science, while engaging in numerous activities throughout the 40-foot sensory- and science-filled vehicle



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Institute for Functional Nanomaterials

From fundamental science to innovation and commercialization.



[ABOUT US](#) [EDUCATION](#) [HR DEVELOPMENT](#) [NEWS](#) [OUTREACH](#) [PEOPLE](#) [PARTNERS](#) [HIGHLIGHTS](#) [RESEARCH](#) [T&C](#)



upload information for annual report and updated cv



Annual Best Practices Conference on Teaching and Learning



October 21, 2011 - 8:00am
Interamerican Univ-Metro

[Click here to know more!](#)



New Highlights



No-Cost Extension Period and Final Report



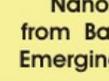
Strategic Plan



Available Workshops



Puerto Rico NSF EPSCoR/RII Track-1 Report



Nanotechnology from Basic Science to Emerging Applications

About IFN

The Institute for Functional Nanomaterials is a research center in the field of functional nanomaterials.

It is managed by the **Resource Center for Science and Engineering** and has active participants from four campuses of the **University of Puerto Rico (UPR)**.

www.ifn.upr.edu

Puerto Rico



Institute for Functional Nanomaterials
University of Puerto Rico
<http://www.ifn.upr.edu>



The PR EPSCoR/IFN Takes Nanotechnology to the Community: NanoDays to One of the 14 Largest Shopping Mall in the Nation





POSTDOCTORAL MENTORING PROGRAM

- The plan was designed using the **National Postdoctoral Association Model** and introduced in the PR EPSCoR Annual Meeting
- All IFN Postdoctoral and graduate fellows will undergo a rigorous mentoring experience



Postdoctoral Fellows, graduate students and research mentors participating in the
Career Pathways Workshop



PR EPSCoR Education and Outreach Program (EOP)

The EOP brings the results of IFN research into the classroom and integrate nanoscience concepts, techniques, and skills in the K-16+ continuum.

Summer Teacher Training Program



Workshop for First Generation College Students



NanoDays

Research Internships

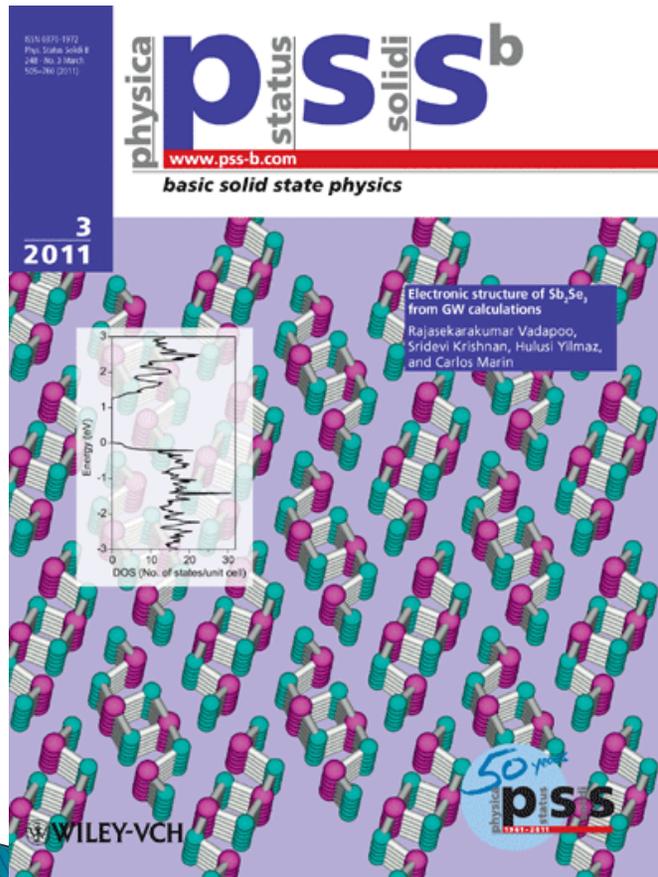


Role Model





Nanoribbon studies at an IFN lab reveal clue to perfect 1D semiconductor



Semiconducting **quantum heterostructures** have potential applications for light emitting devices and lasers emitting at high energies. The **IFN laboratory** of Dr. Carlos Marin and his students have performed calculations that indicate that nanoribbons of antimony sulfide (Sb_2S_3) and antimony selenide (Sb_2Se_3) can make **a perfect sub-10 nm semiconducting heterostructure**.

The Journal **Physica Status Solidi B** (PSSb) featured their results in the front page of the journal Vol. 248, page 700, 2011, because of its significance to the development of perfect **1-D semiconductors**.



22nd National NSF EPSCoR Conference

Coeur d'Alene, Idaho

October 24-27, 2011

**Welcome to the
22nd National NSF EPSCoR Conference**

October 24 - 27, 2010, Coeur d'Alene, Idaho



> upcoming events

- Monday, October 24**
- NSF EPSCoR National Conference
- 3:00pm Salt Marsh Ecology
- Tuesday, October 25**
- NSF EPSCoR National Conference
- 7:30pm Honors Colloquium-Robotics ar
- Wednesday, October 26**
- NSF EPSCoR National Conference
- Visiting Illustrator Lecture: Barron Storey
- Thursday, October 27**
- NSF EPSCoR National Conference

> our partners

- University of Rhode Island
- Brown University
- Bryant University
- Community College of Rhode Island
- Providence College
- Rhode Island College
- Rhode Island School of Design
- Salve Regina University
- Slater Technology Fund
- Roger Williams University

> connect

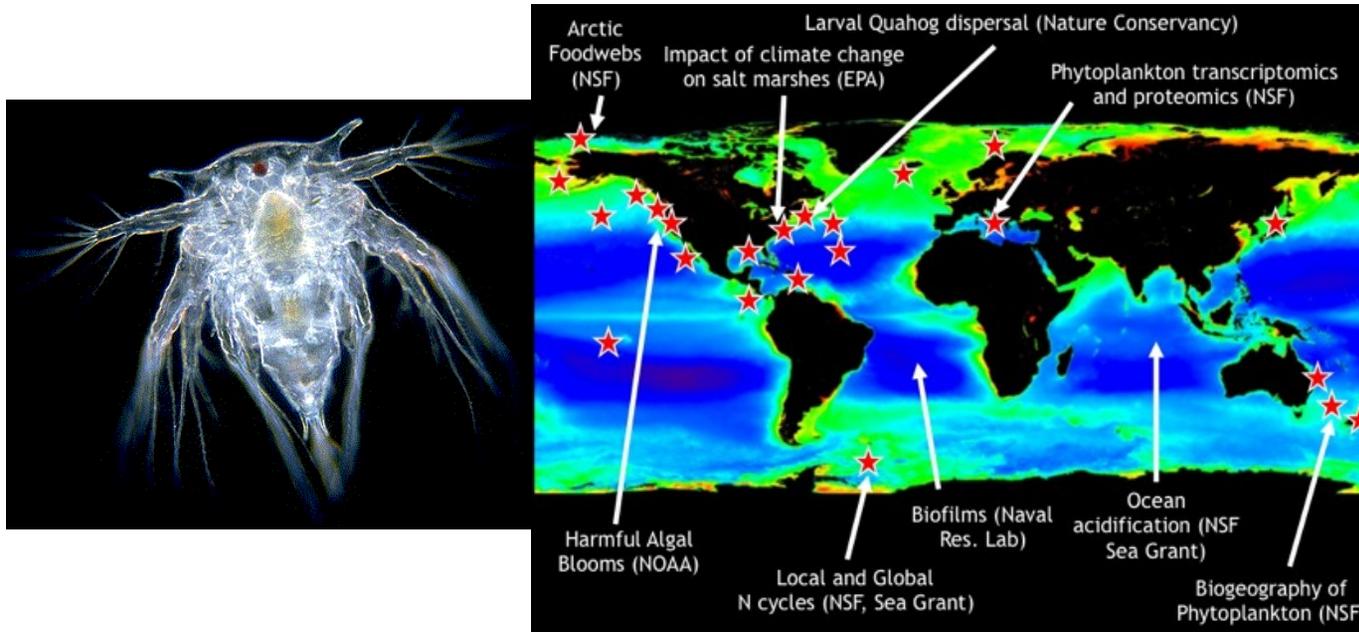
-  facebook
-  twitter
-  linkedIn
-  mailing lists
-  event calendar
-  our wiki

© 2011 Rhode Island NSF EPSCoR - Supported by NSF Grant #1004057 - contact: web@riepscor.org

www.riepscor.org

Rhode Island

Research on the Effects of Climate Variability on Marine Life



Researching adaptation, food webs, pathogens and parasites, and more using core research facilities in marine life science, genomics, and proteomics with novel scientific data visualization techniques and cyberinfrastructure capacity.



Summer Undergraduate Research Fellowships (SURF)



Providing research training in the lab and field, career development activities, and poster presentation experience for undergraduates around the state.

Making Science Visible & Accessible



Creating collaborative environments for scientists, artists, and designers. Developing techniques to better visualize complex data sets and to make research more accessible to the broader public.



Rhode Island NSF EPSCoR
Experimental Program to Stimulate Competitive Research

Hands on Science for Middle and High School Students



Getting young people excited about science. Working with underrepresented and first-generation students to expose them to research and the college experience.



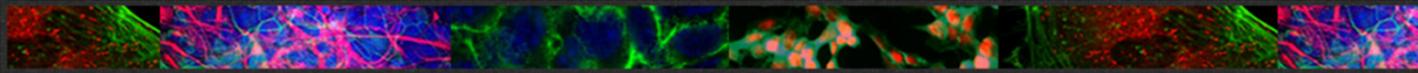
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News and Events

NSF BIO Directorate [changes submission and review processes](#).

Modeling Advanced Materials, Systems Biology and Alternative Energy Sources Workshop

Knoxville, TN - October 10-12

This workshop is an activity of the Tennessee and South Carolina NSF EPSCoR jurisdictions who have jointly been awarded an EPSCoR Cyberinfrastructure RII "A Desktop to TeraGrid Ecosystem" (NSF EPS-0919440 in collaboration with Tennessee Track I team "TN-SCORE" (NSF EPS-1004083).

2011 National EPSCoR Conference - Coeur d'Alene, ID - October 24-27

Register Now to be a member of the International Society for Biofabrication

The International Society for Biofabrication (ISBF) is a scientific and professional Society which promotes advances in Biofabrication research, development, education, training, and medical and clinical applications. ISBF represents the international Biofabrication community and shall operate as a non-profit organization. ISBF's core purpose is to foster scientific and technological innovation and excellence for the benefit of humanity. ISBF shall promote the interaction between the different disciplines of the field of Biofabrication as well as between basic research and applied practice; and cooperate with other scientific organizations and communities.

"disCovering Science"

The new series of videos "disCovering Science" has been posted on [The SC Project's YouTube channel](#). These videos were produced in conjunction with [South Carolina Educational Television](#), and are designed for K-12 students and teachers.

SC EPSCoR/IDeA Program Highlights

[Brochure highlighting research achievements of SC EPSCoR/IDeA](#) (pdf)

[Poster highlighting research performed by SC EPSCoR/IDeA participants](#) (pdf)

[Poster summarizing The South Carolina Project for Organ Biofabrication](#) (pdf)

[Poster highlighting communication activities related to The SC Project for Organ Biofabrication](#) (pdf)

Material on this site is based upon work supported by the National Science Foundation-EPSCoR program under Grant Number EPS-0903795, and by the National Institutes of Health Grant Number P20 RR-016461 from the National Center for Research Resources. Any opinions, findings, conclusions, or recommendations expressed in this material are those of the South Carolina EPSCoR/IDeA Program and do not necessarily reflect the views of the National Science Foundation or National Institutes of Health.

Connect with our Programs

The SC Project for Organ Biofabrication

FOLLOW ME ON [twitter](#)



[SC Project Wiki](#)



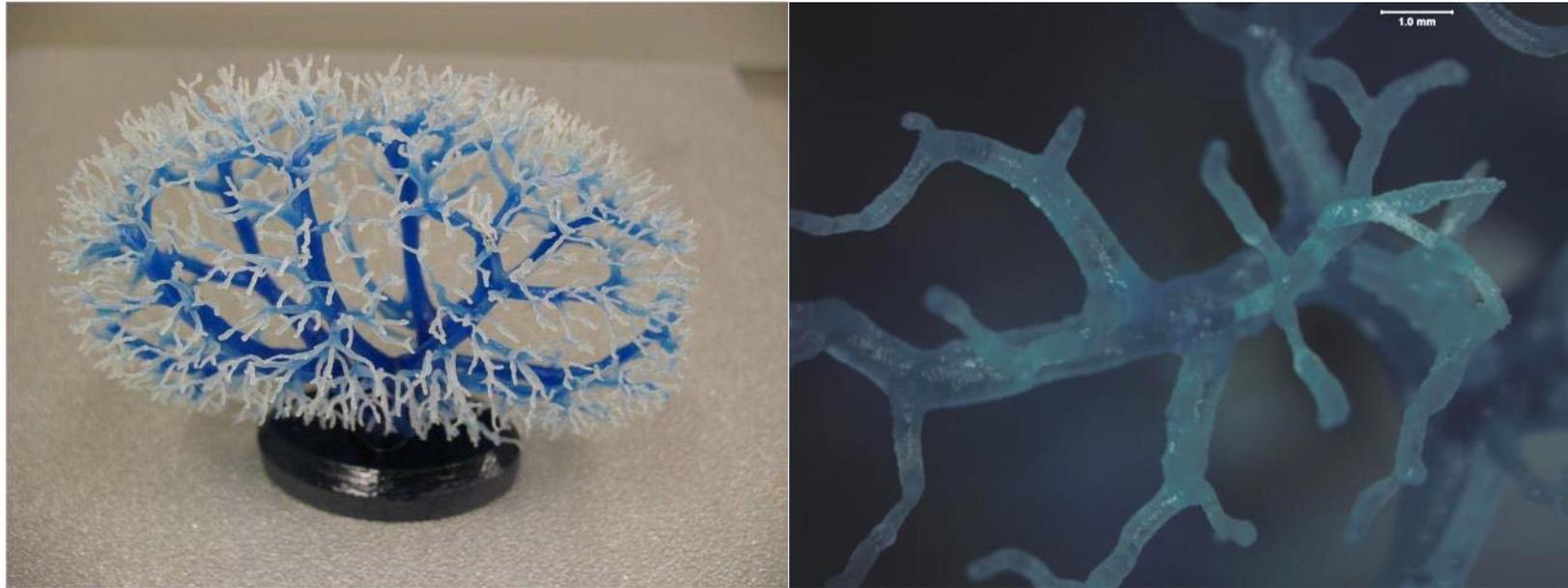
Bulletin Board

For a list of events and opportunities that are not directly sponsored by SC EPSCoR/IDeA, but may be of interest to the local research community, see the [bulletin board](#).

www.SCEPSCoRIDeA.org

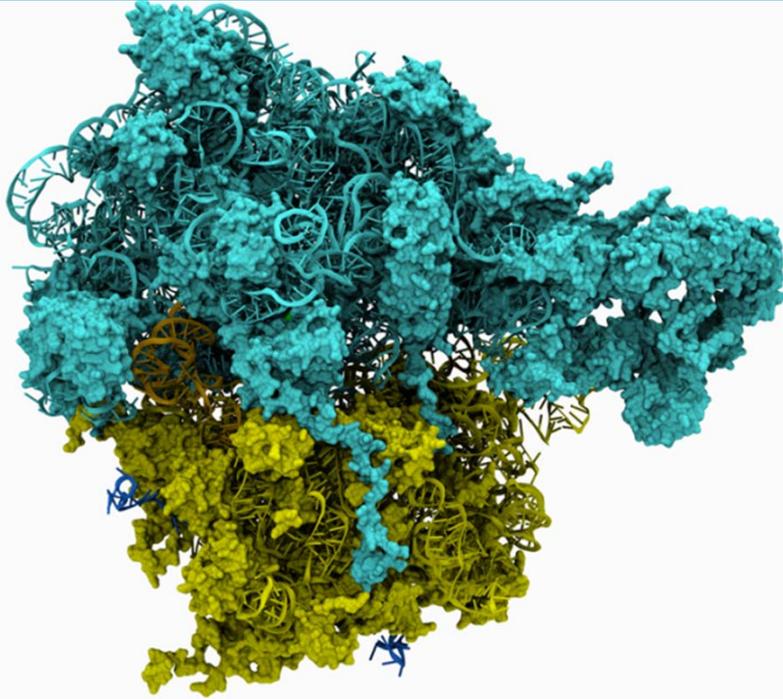
South Carolina

The SC Project for Organ Biofabrication



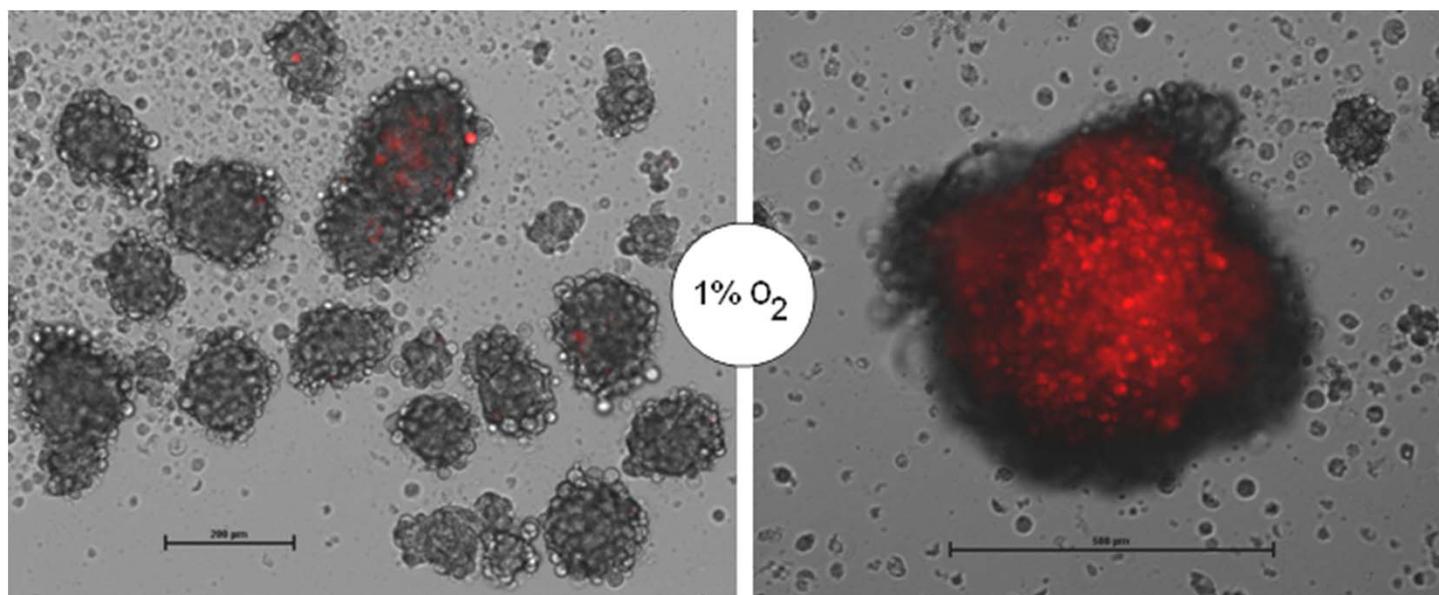
RII Track-1 is focused on the development of layer-by-layer deposition of biological material with the purpose of engineering functional tissues and organs. Shown here: plastic prototype demonstrating printing resolution

The Palmetto Cluster



The RII Track-2 is designed to establish regional access to HPC facilities and expertise. The Palmetto cluster is a 95 TeraFlop system at Clemson University and is currently ranked 89 in the top 500 HPC resources.

Grants for Exploratory Academic Research (GEAR)



The RII Track-1 offers seed grants to support exploratory research in fields related to biofabrication. Shown here: physiological hypoxia drives adipose derived stem cell differentiation - Dr. Jay Blanchette, USC

K-12 Science Videos for Classroom Use



An RII Track -1 outreach effort is the development of videos for use by K-12 teachers in the classroom. Find these at: *[Youtube.com/OrganBiofabrication](https://www.youtube.com/OrganBiofabrication)*



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SDEPSCOR.ORG
 South Dakota Experimental Program to Stimulate Competitive Research

Contact Database Sitemap

- Home
- About Us
- Programs
- Highlights
- News
- Media
- Links

WELCOME TO THE SOUTH DAKOTA EPSCoR WEBSITE

In 1980, the National Science Foundation (NSF) established the Experimental Program to Stimulate Competitive Research (EPSCoR). The EPSCoR program is designed to assist states in establishing a self-sustaining academic research enterprise with the competitive capability that will contribute to the states' economic viability and development.

[Read More](#)

SD EPSCoR Builds Capacity by Building Partnerships

Quick Links

- Weekly Grant Announcements
- PANS Research
- Evaluation Plan
- REACH Committee
- REACH Committee Bylaws
- Acknowledgement Statement
- CyberInfrastructure Meeting Executive Summary
- Request For Proposals

News & Announcements

- Harnessing Energy Through Dye-Sensitized Solar Technology
- Website Enables Users to Explore Virtual Research Environments
- Joint ND/SD State EPSCoR Conference
- NASA EPSCoR Awards South Dakota Research Groups
- A Closer Look: Dr. Ranjit Koodali
- Looking to Nature to Expand Solar Technology
- SD EPSCoR & SD GOED Partnership Creates Jobs
- SD EPSCoR Receives \$20 Million RII Award

CAREER Proposal Development Program

Connect With Us:

flickr

This material is based upon work supported by the National Science Foundation/EPSCoR Grant No. 0903804 and by the State of South Dakota. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation.

South Dakota EPSCoR BOX 2295, 515E 19A, BSU Building, SD 57007
 TEL: 605/688-5271 FAX: 605/688-4611

Home About Us Programs Highlights News Media Links Contact Database Site Map

PANS
 Photo Active Nanoscale Systems

RELATED SITES: www.sdepscior.org

Home | About Us | PANS Senior Faculty | News & Announcements | Instrumentation | Links

Welcome!

The Photo Active Nanoscale Systems (PANS) Research Group includes over forty faculty, research staff, graduate and undergraduate students from Augustana College, Black Hills State University, South Dakota School of Mines & Technology, South Dakota State University, and the University of South Dakota. Project participants are creating new devices in the area of photo-active nanoscale systems and will address research challenges associated with photovoltaics and solar energy, directwrite electronics, and the use of nanostructured materials for converting solar energy into chemical fuels.

News & Announcements

- Harnessing Energy Through Dye-Sensitized Solar Technology
- A Closer Look: Dr. Ranjit T. Koodali
- Organic Photovoltaic Materials: Looking to Nature to Expand Solar Technology
- Producing Solar Cell Collector Networks Through Inkjet Printing
- Q&A: Exploring PANS Research Through Synthetic Chemistry
- Spectroscopic Imaging: Repurposing Low-energy Light to Create Renewable Energy

Research

PANS project members hope to find cheap and more efficient alternatives to traditional energy sources through the development of photovoltaic cells.

Education

Universities are valuable resources. Their science and engineering programs, as well as faculty and students, are major assets to the state.

Economic Development

The PANS project has several ties to industry who are strong supporters of the work. Part of the PANS project is the goal of developing technology that will find its way into commercial use.

Collaboration

PANS Partnerships include a group of over forty faculty members, research staff, graduate and undergraduate students. Partnerships also include the private sector, state government, and the South Dakota Board of Regents.

For comments or questions about this website, please email ETEL.DR.W@SDSU.EDU or www.sdepscior.org

www.sdepscior.org



South Dakota

Partnering with South Dakota Companies to Create Internships

Dakota Seeds grants provide funding to assist with internship wages. The grants cover up to one-half of a position's wages. Of the Dakota Seeds funded participants who have graduated, 35% have returned to the business they interned with for full-time employment.

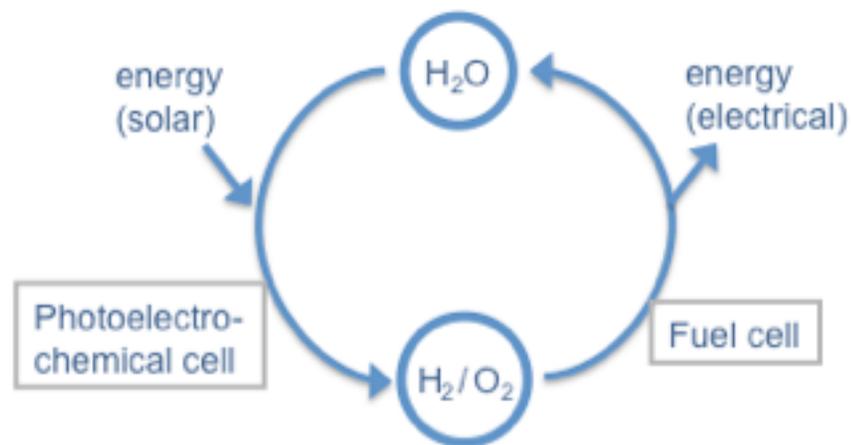


SD EPSCoR Math Camp

The second annual SD EPSCoR Math Camp on the Pine Ridge reservation included discussion of mathematics in Lakota culture. Lakota elders discussed the mathematics of drum songs and the mathematics of beading to the fifty-five primarily middle-school participants.



Energy Conversion



A team of SD EPSCoR scientists have developed a suite of complimentary energy conversion processes that enable rapid and efficient transformation of sunlight into electricity or hydrogen fuel using a variety of nanostructured photocatalyst materials.

Preparing For Life After Graduate School



The “Preparing For Life After Graduate School” workshop is a 2-day career development workshop designed to teach graduate students and postdoctoral scholars about career options and how to prepare for them.



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TENNESSEE



Navigation: About TN-SCORE Partners Research Programs Media Center Collaborate Contact Us

Creating a Culture of Collaboration.

Advanced Solar Conversion

Devices for Energy Storage & Conversion

Nanostructures for Enhancing Energy Efficiency

EPSCoR

Welcome to TN-SCORE

Tennessee Solar Conversion and Storage using Outreach, Research and Education (TN-SCORE) is Tennessee's first NSF RII Track 1 Research Infrastructure award. It will provide a unique opportunity to develop the platform for enhanced research capacity and greater competitiveness within all Tennessee's diverse academic institutions.

Tennessee EPSCoR

Tennessee is a designated EPSCoR state. EPSCoR (Supplemental Program to Stimulate Competitive Research) is a program administered by the National Science Foundation to assist states in boosting the level of research funding provided by NSF.

The Tennessee State EPSCoR Committee, created in Tennessee in April 2003, was established by the Tennessee public higher education system, Vanderbilt University and administrative and legislative branches of State government to capitalize on this opportunity. This committee is charged with defining the process for identifying and focusing investments on specific research areas to improve research.

News

TN-SCORE Thrust leader Zawodzinski Receives Award

Tom Zawodzinski receives the designation of Fellow of The Electrochemical Society. [Read More >](#)

Knoxville Firm Builds Solar Charging Facility

Knoxville-based solar energy company Sustainable Future partnered with the 2 North Shore shopping center in Chattanooga to install a 20.6 kilowatt per hour solar photovoltaic parking structure. [Read More >](#)

Solar Stunner

With all the stories about China dominating the solar photovoltaic (PV) manufacturing sector, you might not think that America is a net exporter of solar products. But it is — to the tune of \$1.8 billion. That's a \$1 billion increase over net exports documented in the solar sector last year. [Read More >](#)

October 2011						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
28	29	30	31	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

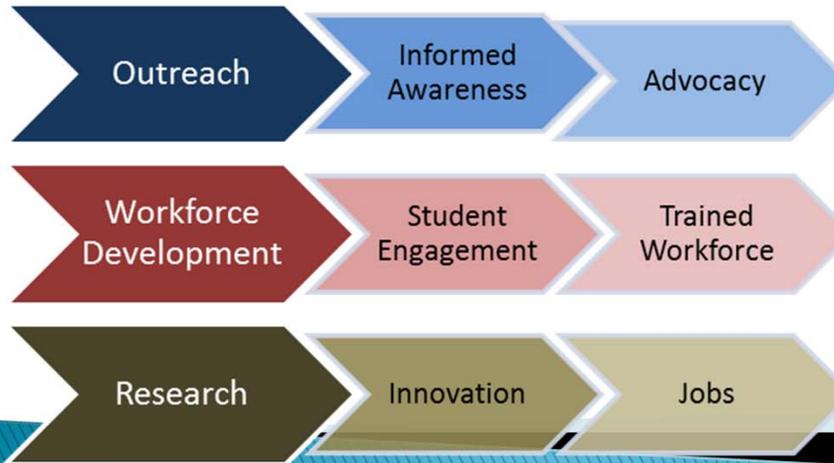
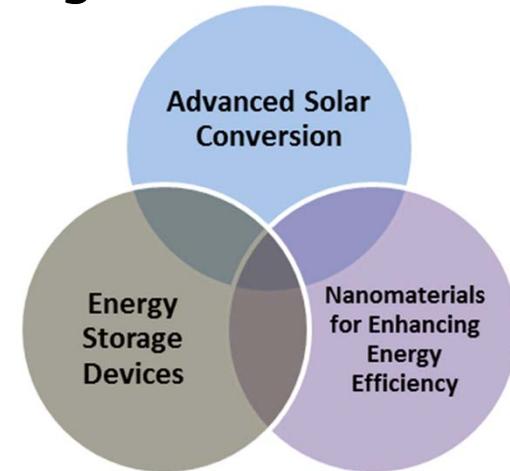
- Oct 10 [Second Annual EPSCoR Workshop: Modeling Advanced Materials, Systems Biology and Alternative Energy Sources](#)
- Oct 24 [National NSF EPSCoR Conference](#)
- Oct 25 [National NSF EPSCoR Conference](#)

www.tnepscor.com

Tennessee Solar Conversion and Storage using Outreach, Research, & Education (TN-SCORE)

Vision: To advance the capacity of science, technology, engineering and math (STEM) research at all Tennessee academic institutions furthering their contribution to state economic priorities and leading to solutions to problems of national significance

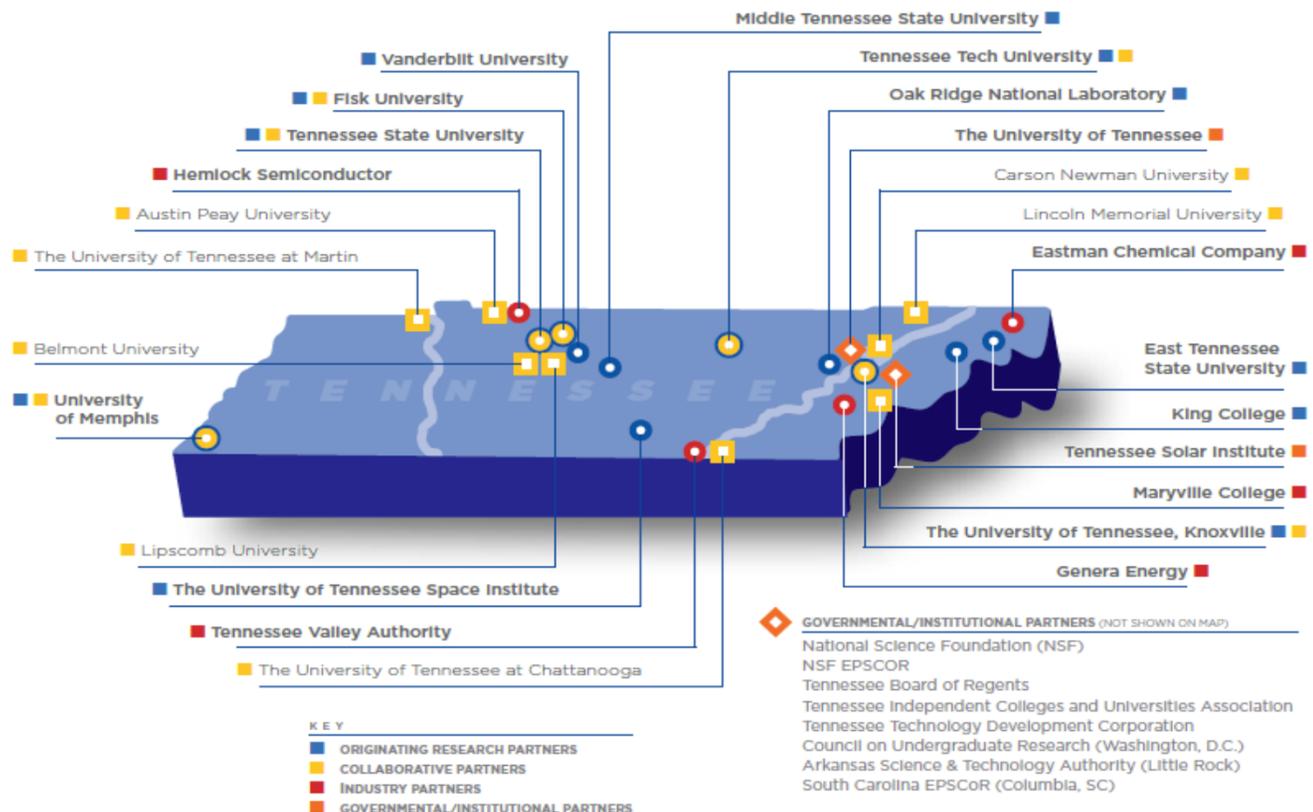
Strategic Research Thrusts



Increased Prosperity for Tennessee

Idaho

TN-SCORE Participants



TN-SCORE Research Themes

Nanostructured
Thin Si Films

Novel Organic
Semiconductors

Novel
Biohybrid
Devices

Single
Nanoparticle
Spectroscopy

Redox Flow
Batteries

Fuel Cell
Materials

Electro-
catalysis

Lithium
Batteries

Nanomaterials
Synthesis

Nanocrystal
Sensitized Solar
Cells

EBIC
Analysis of
Solar Cells

Nano-Based
Carbon
Electron
Emitters

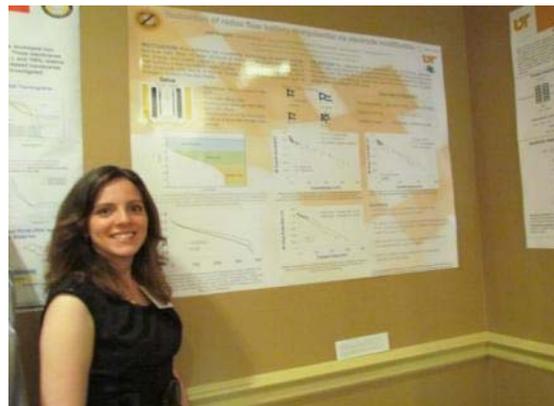
TN-SCORE Student Participation



Over 90 students involved in research activities in 2010-2011



REU field trip to Oak Ridge National Lab



41 student posters presented at the first TN-SCORE Annual Conference



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Experimental Program to Stimulate Competitive Research

- HOME
- RACC ▶
- CWDD ▶
- EMERGING SCIENCE ▶
- C2 ▶
- COMPLEX SYSTEMS ▶
- IRWE ▶
- NECC ▶
- NEWS ▶
- EVENTS ▶
- FUNDING OPPS ▶
- VIDEOS
- PHOTOS
- SOCIAL MEDIA ▶
- STATE COMMITTEE ▶
- PARTNERSHIPS ▶
- WEB RESOURCES ▶
- PEOPLE
- CONTACT US

Welcome to Vermont EPSCoR

The Experimental Program to Stimulate Competitive Research (EPSCoR) is a program designed to fulfill the National Science Foundation's (NSF) mandate to promote scientific progress nationwide. The EPSCoR program is directed at those jurisdictions that have historically received lesser amounts of NSF Research and Development (R&D) funding. Twenty-seven states, the Commonwealth of Puerto Rico and the U. S. Virgin Islands are currently eligible to participate. Through this program, NSF establishes partnerships with government, higher education and industry that are designed to effect lasting improvements in a state's or region's research infrastructure, R&D capacity and hence, its national R&D competitiveness.



VT EPSCoR: Research on Adaptation to Climate Change

- VT EPSCoR News
- Upcoming Events
- Solicitations

Vermont EPSCoR News

- 2011-10-12 - New season of Emerging Science begins Oct 26 on VPT
- 2011-10-12 - Judith Van Houten briefs U.S. Senate Commerce, Scien...
- 2011-10-11 - WAMC Radio RACC Announcement / Interviews



www.uvm.edu/EPSCoR

Vermont

RII Track 1: Research on Adaptation to Climate Change in the Lake Champlain Basin: New Understanding through Complex Systems Modeling



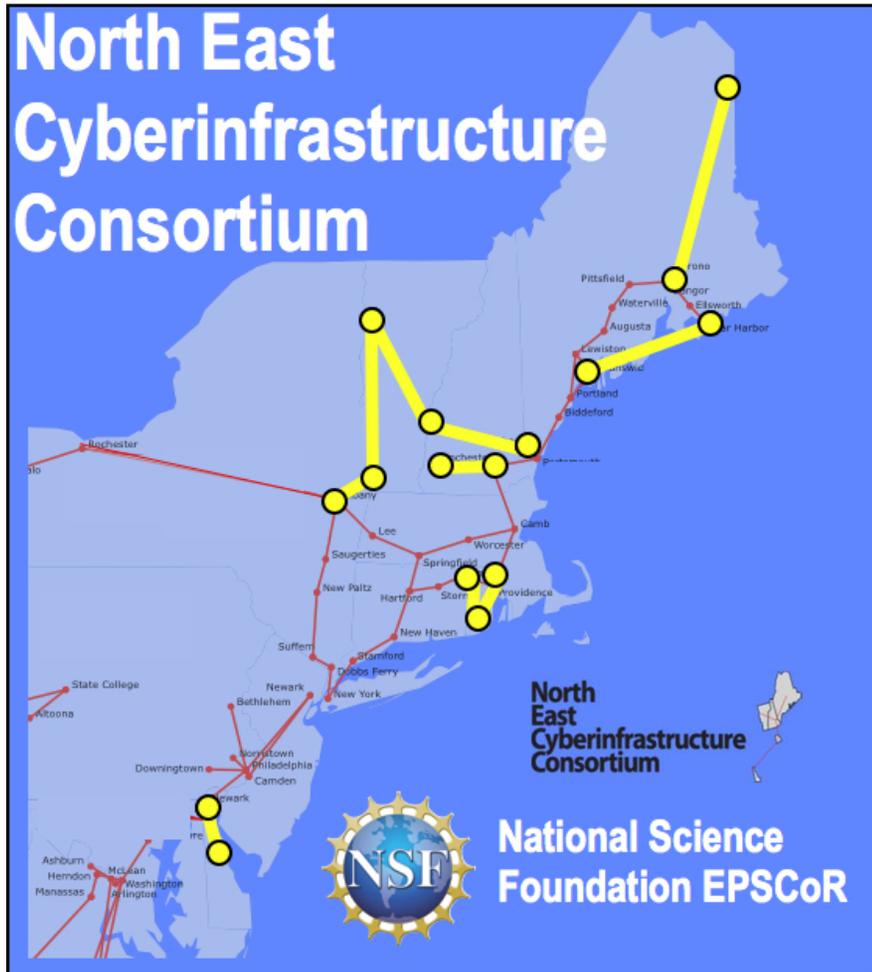
Understanding the effects of changing climate and land use on the Lake Champlain Basin through the creation of two centers, the Center for Research on Adaptation to Climate Change (RACC) and the Center for Workforce Development and Diversity (CWDD).

VT EPSCoR Center for Workforce Development and Diversity (CWDD)



The CWDD works to inspire students to enter STEM careers and to increase the diversity of people, institutions, and disciplines engaged in STEM.

Integration of students into RACC Research from middle school teachers through undergraduate level; VT Technology Council Internship Program; Scholarships for first generation STEM majors, Abenaki Students, Governor's Institutes of Vermont (GIV) rural poor and girls; Veterans, disabled students research opportunities



RII – Track 2: Delaware, Maine, New Hampshire, Rhode Island, Vermont. 2006-2011



Fred the Fiber Horse and Claude Demarais pull fiber in East Burke VT. Connect NECC to Middle & Last Mile in Vermont

October 24-27, 2010, Coeur d'Alene, Idaho



RII - C2: Improving Connectivity between the University of Vermont & the Vermont State Colleges (VSC) for STEM Research and Education



**Connecting 29 VSC locations & the Community College of VT (CCV) to UVM Internet2 connection
From 300 megabytes per second to 10 gigabytes per second – 33x faster**





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Welcome

The Virgin Islands Experimental Program to Stimulate Competitive Research (VI-EPSCoR) promotes the development of the Territory's science and technology resources through multi-disciplinary research and educational programs.

VI-EPSCoR achieves these goals by supporting research in areas of scientific inquiry linked to the Territory's economic development, by improving research infrastructure to strengthen competitiveness, by increasing student participation in science and technology in order to build a skilled workforce, and by building partnerships between government, non-governmental organizations, and the private sector to create a foundation of research and development for economic growth.

[Learn More >](#)

Join our e-mail list

[Join](#)

Be informed. Keep up with VI-EPSCoR's latest news and events.

Highlights

Celebrity Scientist Tours VI Schools
Scientist visits UVI and other schools teaching reef conservation tips.

Grouper Spawning
Read about the latest Grouper spawning patterns and studies.

Lionfish to the Senate Floor
New bill passed allowing the gathering of Lionfish around the V.I.

VI Students Participate in Science
Students team up with UVI scientists and participate in a long-term science experiment on coral reef disease.

Ciguatera
New study reveals interesting facts.

[View All Highlights >](#)

Follow Us



Discover



Discover VI-EPSCoR video with Nick Drayton
Length: 12 mins

[View More Videos >](#)



ICCE



Integrated Caribbean Coastal Ecosystems (ICCE) -is an island ecosystem research approach, facilitating trans-disciplinary studies of terrestrial, coastal & oceanic systems as well as the related social & economic impacts on communities.



VI-EPSCoR's Celebrity Scientists

Celebrity Scientists interact with, and inspire and challenge Virgin Islands students to pursue careers in science and technology.



VIRGIN
ISLANDS

epscor

From the Sea Floor to the Senate Floor

VI-EPSCoR's support for Research, Outreach, Education and Resource Management leads to policy changes.



US Virgin Islands
Lionfish Response Management Plan 2009



Shawn-Michael Malone
Senator



Legislature of the Virgin Islands

P.O. Box 1690

St. Thomas, Virgin Islands 00804

Office: (340)693-3556 / Fax: (340) 693-3642

E-mail: smmalone1@yahoo.com

Managers and Stakeholders



Student Interest and Skills
Development

Bill No. 29-0103

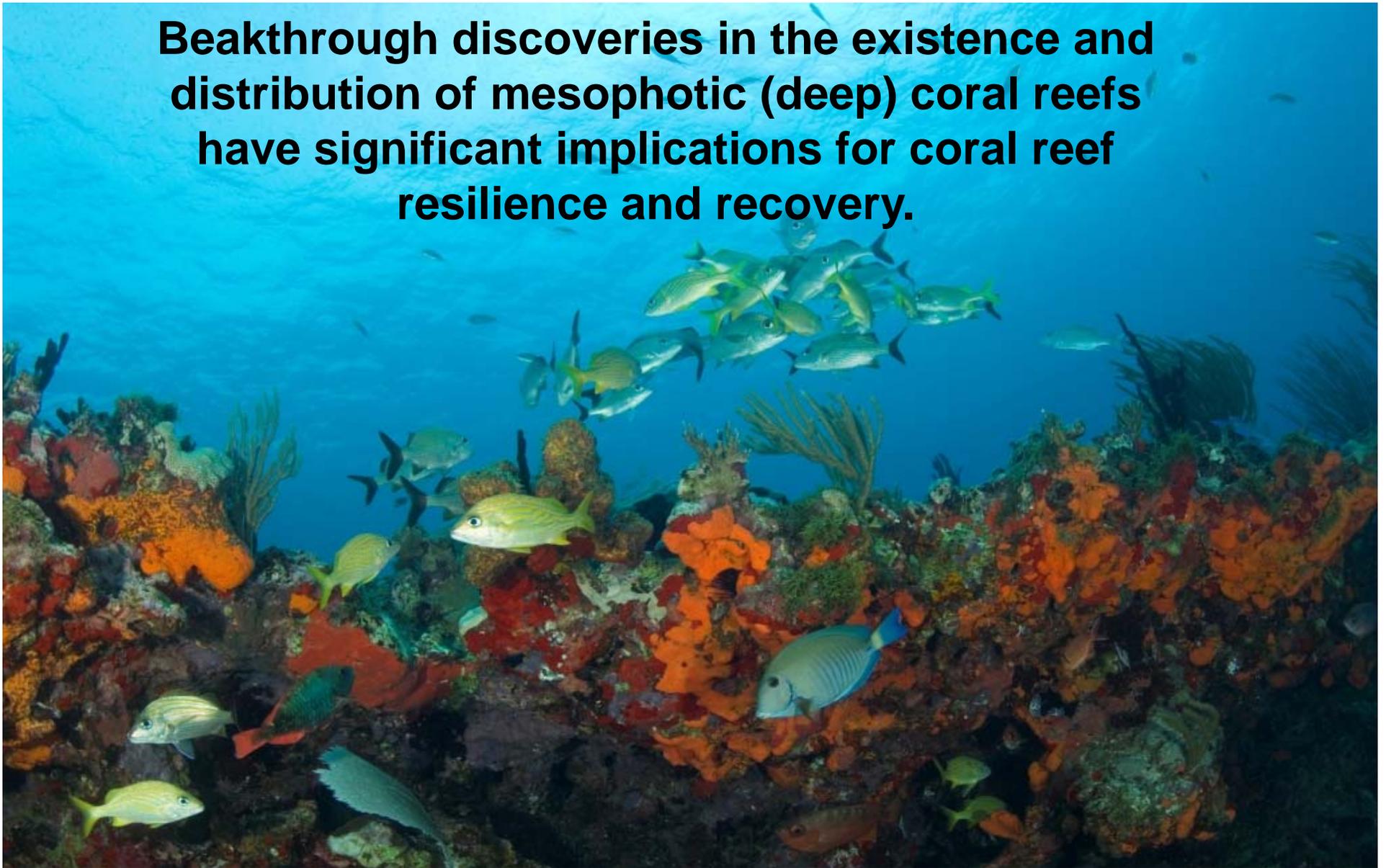
29th Legislature of the VI:

..... to create the Virgin Islands Lionfish
Management Initiative

VIRGIN
ISLANDS

epscor

Breakthrough discoveries in the existence and distribution of mesophotic (deep) coral reefs have significant implications for coral reef resilience and recovery.



**VIRGIN
ISLANDS**

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SCIENTIST SPOTLIGHT DR. XIAODONG SHI
SEP 22, 2011
Dr. Xiaodong Michael "Mike" Shi is an assistant professor in the West Virginia University Department of Chemistry and a participant...
[Read more](#)

Welcome

Investing in research in West Virginia is helping to create jobs, attract additional public and private investment, improve education and steer youth toward careers in Science, Technology, Engineering and Math (STEM) disciplines, all while increasing our society's knowledge.

In West Virginia, the National Science Foundation's Experimental Program to Stimulate Competitive Research (EPSCoR) is directed by the Higher Education Policy Commission's Division of Science and Research.

Please read through our website to learn more of the benefits, successes and opportunities of science and research in West Virginia.

Search

Search for:

Latest News

Arch Coal honors commitment to safety with gift to WVU Mining Extension

Scientist Spotlight – Dr. Letha Sooter

Scientist Spotlight – Dr. Jason Best

Scientist Spotlight – Dr. Tony Szwilski

Scientist Spotlight – Dr. Tina Cartwright

Discoveries



Leading scientists who are improving society, and bringing jobs and investments to our institutions.

[Read More](#)

Outreach & Education



Read about our efforts to spread the word about science and to encourage diverse participation.

[Read More](#)

Grant Opportunities



Competitive grant opportunities for scientific research and science education.

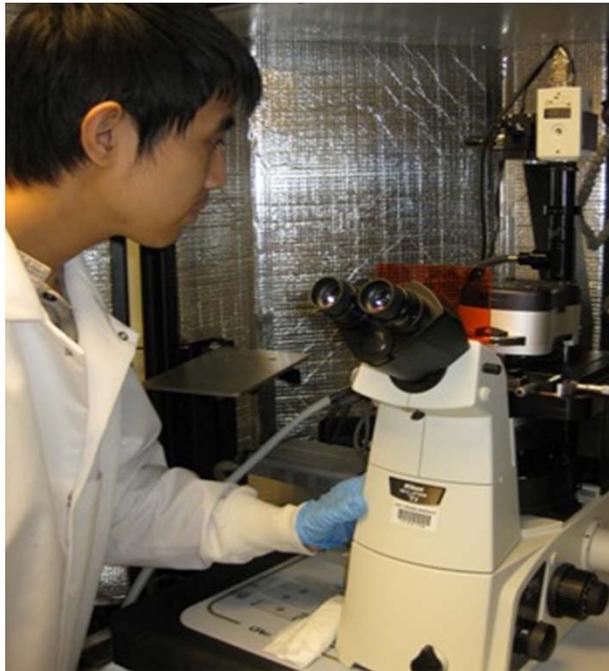
[Read More](#)

www.wvresearch.org

West Virginia

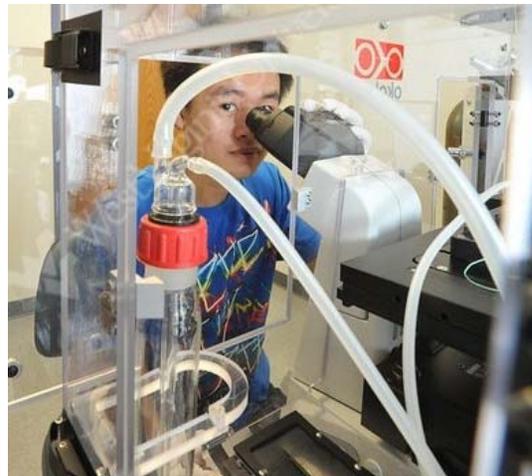
WV EPSCoR

Bionanotechnology for Public Security and Environmental Safety

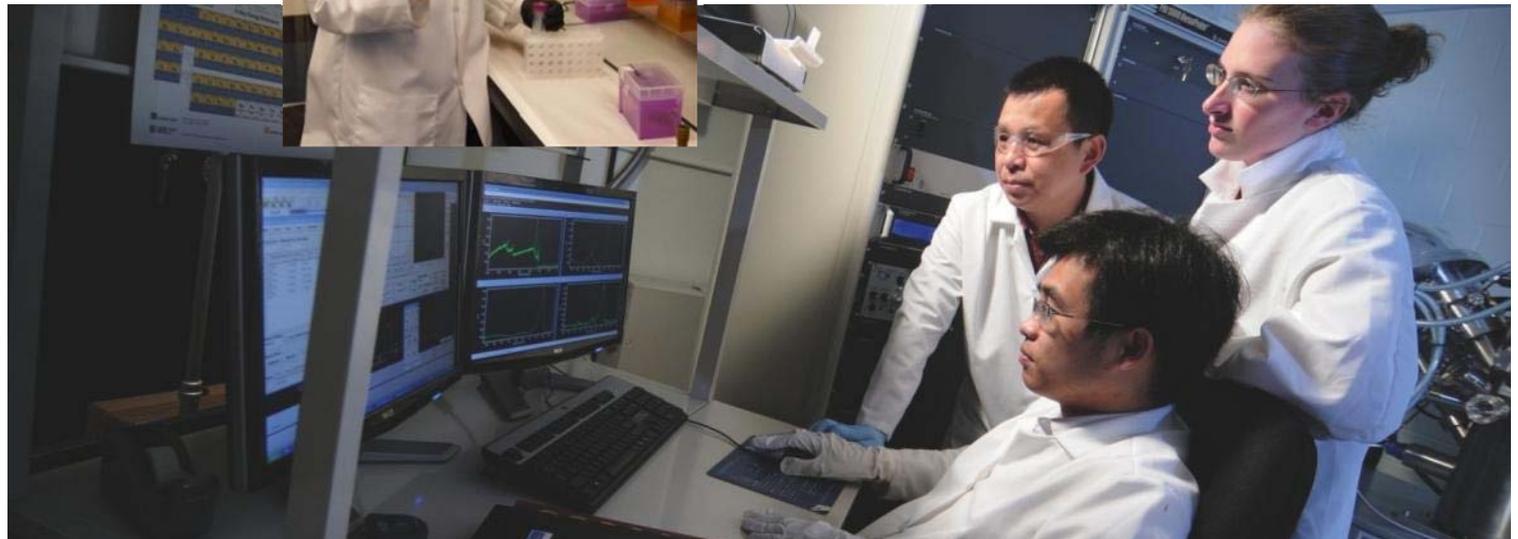
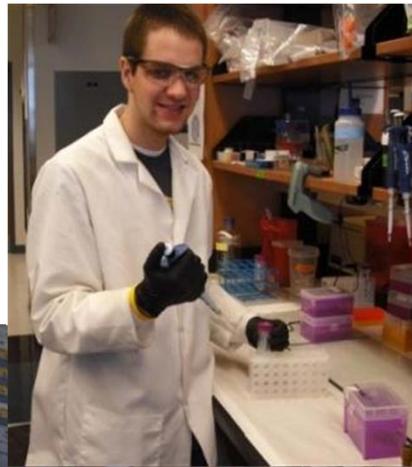




**Increasing discovery
and innovation
through
computational
research and
collaboration**



Increasing STEM graduates and workforce diversity





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UNIVERSITY OF WYOMING

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Wyoming EPSCoR

EPSCoR Home

Community College Programs

Faculty Opportunities

Fellowships and Student Programs

Wyoming EPSCoR Events

Resources and Links for EPSCoR Programs

Highlights

Wyoming EPSCoR Staff and Contacts

Questions and Comments

High Plains American Indian Research Institute - COMING SOON



Summer Research Apprentice Program

SRAP Information

SRAP students at the 2011 Reunion in Laramie, WY

WYOMING EPSCoR UPDATES



Now accepting applications for Undergraduate Research Fellowships for Fall 2011!

[Click here to find out how to apply for Undergraduate Fellowships!](#)

Related Links

- [WY Science and Technology Plan 2010](#)
- [State of Wyoming](#)
- [Program in Ecology - PIE](#)
- [Wyoming NASA Space Grant Consortium](#)
- [Science & Mathematics Teaching Center - SMTC](#)
- [Wyoming Geographic Information Science Center - WyGISC](#)
- [Wyoming INBRE](#)
- [Environmental & Natural Resources - ENR](#)

Wyoming's Experimental Program to Stimulate Competitive Research (EPSCoR)

EPSCoR is a federal and state matching grant program which enables Wyoming to continue to be nationally competitive in science and technology. EPSCoR funding and state match appropriations are utilized to build science and engineering in higher education and a technology-based economy for the future. EPSCoR has helped to move the State of Wyoming along the path of research and excellence by supporting the State's research endeavors.

The goals of Wyoming EPSCoR are

- to improve the research accomplishments of targeted faculty making them capable of competing successfully for Federal research dollars,
- to strengthen departmental and multidisciplinary research groups,
- to introduce long-term improvements to the State's science and engineering infrastructure.

Contact Information

Wyoming EPSCoR
epscorwy@uwyo.edu

Campus Location:
 422 Wyoming Hall
 (307) 766-2033
 Fax: (307) 766-2061

Mailing Address:
 Dept 3622, 1000 E University Ave
 Laramie, WY 82071-2000

Monday - Friday
 8:00am - 5:00pm
 7:30am - 4:30pm summer

SRAP All Years Reunion

www.uwyo.edu/epscor

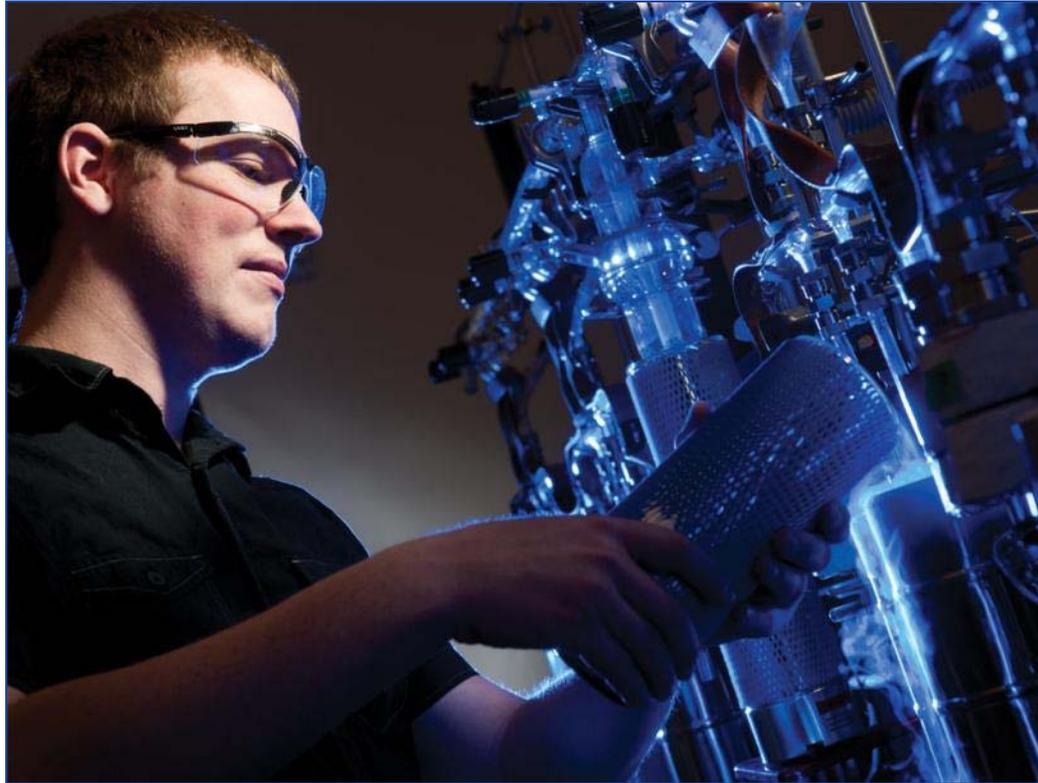
Wyoming

Undergraduate Research Programs



Advancing Student Learning by Hands-on Research: Water samples are gathered for analysis of dissolved organic carbon content in a mountain stream near Laramie, Wyoming.

Core Research Facilities in Wyoming



Training the Next Generation of Scientists in Cutting Edge Technology: Extraction of water from plant tissues for isotopic analysis at the Stable Isotope Facility (SIF).



NCAR-Wyoming Supercomputing Center



NCAR-Wyoming Supercomputing Center (NWSC): NSF visitors at the construction site of a 1.2 petaflop supercomputer in Cheyenne, nearing completion in 2012, with allocation for EPSCoR jurisdictions.



Ecosystem Research in Wyoming



Understanding Nitrogen and Water Cycles in a Mountain Ecosystem: Sampling during a nitrogen isotope addition to Fish Creek, Wilson, Wyoming.

