

Online Research Communities for NSF Research Experiences for Undergraduates

Online research communities offer web-based collaboration for National Science Foundation REU programs. Students can create micro sites to present their research projects, join groups with like-minded students, and interact in a live virtual poster session at the end of the program.

CLEMSON
College of ENGINEERING
AND SCIENCE

Advanced Functional Membranes
Community for the latest research in new membrane materials.

Home Events **Projects** Add a Project Search...

← **Membranes for Produced Water Treatment** →
Development of Advanced Membranes for Produced Water Treatment

Produced water (PW) is oily water that is co-produced during oil and gas exploration and production. In the United States, PW accounted for 88% of the total volume of exploration and production material brought to the surface by the oil and gas industry in 2007. The total volume of PW generated from most of the nearly 1 million actively producing oil and gas wells in the United States in 2007 was estimated to be about 21 billion barrels (bbbl). Therefore, identifying and implementing appropriate beneficial uses for PW should provide overwhelming benefits for local communities and ecosystems and provide oil and gas companies with flexible, cost-saving water management options. Conventional wastewater treatment technologies such as coagulation, flocculation, air flotation and gravity separation normally cannot meet the high purity requirements for discharge of PW. There is a growing tendency to use membrane technology for PW treatment. Although membranes can treat PW, their widespread use is hindered by a decline in permeate flux experienced as a result of fouling.

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Features

- Web-based community portal
- Sites for research projects
- Personal profiles for co-authors
- Voice, video, text chat
- Virtual Poster Session
- Security and privacy controls

See REU Community example at: <https://advancedfunctionalmembranes.webvent.tv>

NSF “Broader Impact” Criterion

Online Research Communities meet all of the National Science Foundation’s “Broader Impact” criterion for proposed activities.

Advance Discovery

Promote learning through expanded exposure to other programs’ students

Enhanced Infrastructure

Self-contained platform to network and connect with future colleagues

Benefits to Society

Publish research funded by the public, and encourage discovery of the leading researchers of the future

Broaden Participation

Increase student exposure outside traditional locations and boundaries

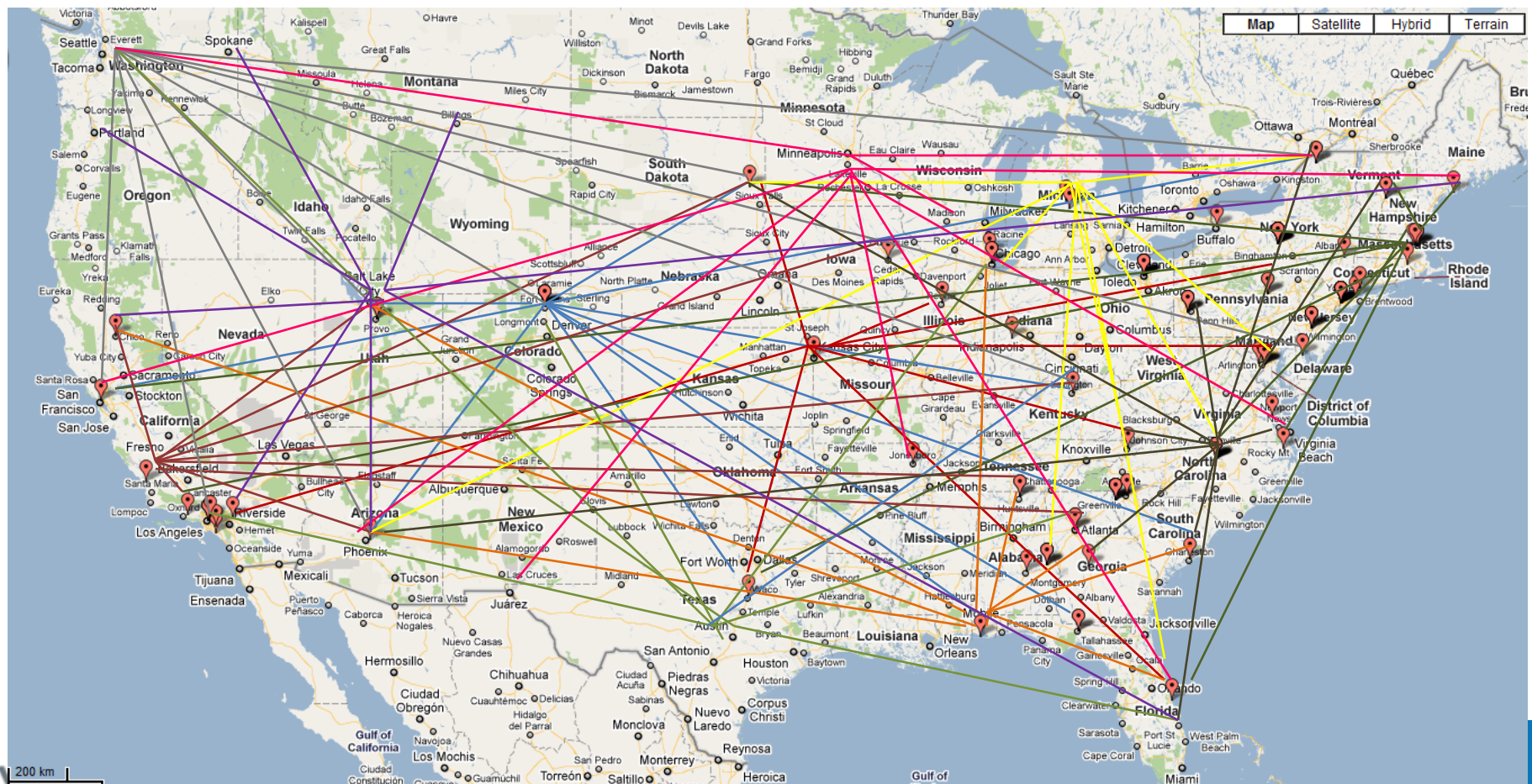
Disseminate Knowledge

Sites accessible after program ends for ongoing collaboration



Connect NSF REU Programs nation-wide

- Each node below represents a past NSF REU program
- Watch the network effect expand as students connect with other programs



Get Started Today!

Host your Virtual Poster Session in as little as 3 weeks.

- **Scalable** – designed for small to large communities
- **Start-to-Finish** – one system, to keep it simple
- **Do-it-yourself** or **Full service** – fit your time and skills

Visit Webvent.tv today, or contact us at info@webvent.tv for Help to include a virtual community in your grant proposal