

Delaware EPSCoR *

* The National Science Foundation's Experimental Program to Stimulate Research

- Overview
- Council Responsibilities
- Impact
- Next steps

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Delaware EPSCoR Overview

- A federal/state partnership to build research capacity and capability
- 25 states and two territories participate
- Program began in 1980; DE became eligible in 2003
- Programs developed and managed through a state EPSCoR Office
- Major program sponsored by the National Science Foundation (NSF)
- Minor programs with other agencies: defense, energy, EPA, NASA, USDA. Delaware participates in NSF, DoD, DOE and EPA programs.
- Potential to receive ~ \$3-5 Million/ year in program funds; ~ 80% NSF.
- The Research Infrastructure Improvement (RII) grant is the largest program.
- Delaware awarded a RII of \$6 Million/ 3 years on March 25, 2005. The State provides 50% cost share (\$3 Million over 3 years).
- Starting the process for the next RII

S&T Council Responsibility

- Strategic guidance on program focus
- Oversight for major activities
- Build support for State contribution to program

Planning cycle for next RII is beginning

- Submission date: September 2007
- Need to formalize participation of S&T Council

Delaware Impact

- ~ \$16.6 Million since 2003
 - NSF RII: \$9M (\$6M NSF/\$3M State)
 - NSF co-funding: ~\$5.6M / 18 awards
 - Other agencies: ~\$2.0 / four awards
- Catalyst for the S&T strategic planning (S&T Council)
- Builds Communities
 - Collaborative statewide academic network
 - National EPSCoR network
- Connecting basic research to State needs / opportunities

What's new since 6/06

□ Strong endorsement of RII performance by NSF evaluation team (October, 2006)

- *"Many aspects of Delaware's program serve as a model for EPSCoR programs in general."*

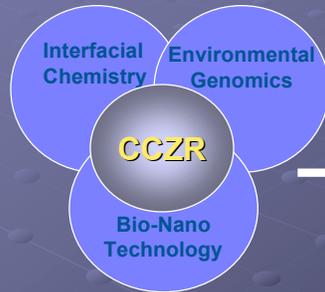
□ Center for Critical Zone Research officially launched (September 2006) at UD

- *Very strong faculty leadership across UD*
- *Focused on basic science at the soil, water, air and living organism interface*
- *Strong ties to environmental issues in State*

Leadership Team for THE CENTER FOR CRITICAL ZONE RESEARCH

- Donald L. Sparks, S. Hallock du Pont Chair, Plant and Soil Sciences
- J. Thomas Sims, T.A. Baker Professor, Plant and Soil Sciences
- George W. Luther, III, Maxwell P. and Mildred H. Harrington Professor, Marine Studies
- S. Craig Cary, Professor, Marine Studies
- David L. Kirchman, Maxwell P. and Mildred H. Harrington Professor, Marine Studies
- Dominic M. DiToro, Edward Davis Professor, Civil and Environmental Engineering
- John F. Rabolt, Karl W. and Renate Boer Professor, Materials Science and Engineering
- Stanley I. Sandler, Henry Belin du Pont Chair, Chemical Engineering
- Thomas P. Beebe, Professor, Chemistry and Biochemistry
- Murray V. Johnston, III, Professor, Chemistry and Biochemistry
- John M. Byrne, Distinguished Professor, Center for Energy and Environmental Policy

Center for Critical Zone Research Impact



Potential Delaware Impact Areas:

- Health of the Inland bays (Algae Bloom / Fish Kills)
- Human Health and Environmental effects of Nano-particles
- Brownfield contaminants detection / deactivation
- Pathogen Transport

Next Steps

- Continue to execute existing EPSCoR initiatives
- Scope out first draft of next RII – 1st Q, 2007
 - Financials
 - 3-5 years @ \$3 Million from NSF
 - Target \$1 Million/year in State support
 - Focus
 - per NSF recommendations, move key initiatives in first RII towards sustainability (CCZR, Ethics and Public Policy program and Statewide network)
 - solicit other focal areas from the academic community and private sector
- Engage S&T Council in final choices - 2nd Q, 2007