



South Dakota

EPSCoR UPDATE

Experimental Program to Stimulate Competitive Research

September 26, 2006 Declared "Dr. Aelred Kurtenbach Day"

Excerpts taken from University Relations-SDSU and the Brookings Register

Brookings entrepreneur and former REACH Committee Chair, Al Kurtenbach was recently honored when Governor Mike Rounds declared Tuesday, September 26, as "Dr. Aelred Kurtenbach Day" at the recently completed two-day South Dakota EPSCoR State Conference held in Rapid City.

Kurtenbach was recognized for all that he has done for South Dakota to strengthen the research programs in the state's public universities as Chair of the SD EPSCoR advisory committee (REACH) from its inception in 1986 until May 2006, working to provide jobs for South Dakota students to stay in South Dakota, and advancing technology-based economic development.

Rounds noted that South Dakota has gone from no funded EPSCoR programs



Al Kurtenbach (center), was presented with the Governor's proclamation by Mel Ustad, Tourism & State Development (left). David Link, Sioux Valley Health Systems and current REACH Chair (right) presented a plaque and print in appreciation of Dr. Kurtenbach's 20 years of service with the REACH Committee.

prior to 1989 to having \$44 million in awards in 2006. These awards are from the National Science Foundation, National Institutes of Health, NASA, Department of Defense, Department of Agriculture and Department of Energy.

Kurtenbach is also involved in the EPSCoR program at the national level. He is one of 27 individuals asked to serve on the board that will develop the "Vision 2020" for the National Science Foundation.

In addition to being co-founder of Daktronics, Inc., Kurtenbach served on the SDSU electrical engineering faculty and was co-dean of the College of Engineering for approximately one year. He has served as a state legislator and as a member of the SD Board of Regents. As a citizen he has helped make the 2010 Initiative a success, which consists of five goals, including becoming a recognized leader in research and technology development by the year 2010.

Executive Proclamation

State of South Dakota, Office of the Governor

Whereas, South Dakota researchers and students had the knowledge and innovations needed to compete for national research funding, they lacked the necessary research infrastructure until the South Dakota EPSCoR efforts successfully created the opportunity for researchers to thrive in South Dakota,

Whereas, Dr. Aelred Kurtenbach served as Chair of the REACH Committee, the state's advisory committee for South Dakota EPSCoR, since its incorporation in 1986 until May of 2006,

Whereas, South Dakota has gone from no funded EPSCoR programs prior to 1989 to having \$44 million in active EPSCoR or EPSCoR-like awards in 2006 from the National Science Foundation, National Institutes of Health, Department of Defense, NASA, US Department of Agriculture, and Department of Energy,

Whereas, Dr. Aelred Kurtenbach as Chair of the REACH Committee, entrepreneur and CEO, state legislator, member of the Board of Regents, and involved citizen helped to develop and make the 2010 Initiative a success,

Whereas, Dr. Aelred Kurtenbach, has been involved in the EPSCoR program at the national level helping to develop the "Vision 2020" for NSF EPSCoR and increasing federal funding for EPSCoR,

Whereas, the South Dakota EPSCoR program will continue to develop the state's educational system and research infrastructure providing more academic and career opportunities for young South Dakotans to live, work and raise a family in our great state,

Now, Therefore, I, M. Michael Rounds, Governor of the state of South Dakota, do hereby proclaim September 26, 2006 as

Dr. Aelred Kurtenbach Day

in South Dakota, and I call upon citizens to observe this day and celebrate the achievements Dr. Aelred Kurtenbach and the South Dakota EPSCoR program under his leadership to enable South Dakota researchers, students, universities and R&D based businesses to succeed.

In Witness Whereof, I have hereunto set my hand and caused to be affixed the Great Seal of the state of South Dakota, in Pierre, the Capital City, this Thirteenth Day of September in the Year of Our Lord, Two Thousand and Six.

M. Michael Rounds, Governor

South Dakota EPSCoR - 2010 NSF RII Award Goals

Photo-Activated Nanostructured Systems (PANS)

- Research focused in two core areas
 - Third Generation Photovoltaics Based on Spectral Conversion of Solar Radiation
 - Photo-Active Nano-Inks for Direct Write Electronics Fabrication
 - Collaborative effort—researchers from South Dakota School of Mines & Technology, University of South Dakota and South Dakota State University

Outreach Activities

- South Dakota EPSCoR raises awareness of research and its contributions to the state
 - Research experiences provided to its Tribal College faculty and students
 - K-12 teachers and students
 - National science & economic development and entrepreneurship conferences held in South Dakota
 - Annual Student Research Poster Day held at the Capitol Building in Pierre
 - Collaboration with the SD Science Discovery Center
 - Traveling exhibits
 - Women In Science program for girls ages 12-18
 - Science on the Move
 - Mobile labs travel to South Dakota's K-12 schools
 - Teacher seminars to integrate activities into current curriculum

Partnership with Sinte Gleska University

- Develop and implement research infrastructure improvements
 - Increase collaborations with other South Dakota universities
 - Promote participation in the South Dakota 2010 Initiative's economic development activities

Technology-Based Economic Development & Entrepreneurship

- Partner with the Governor's Office of Economic Development (Department of Tourism & State Development) and the National Network for Technology Entrepreneurship and Commercialization (N2TEC) and Black Hills State University to promote entrepreneurship
 - Developing Mobile Science Laboratory technology entrepreneurship modules
 - Encouraging S&T leadership development
 - Supporting technology entrepreneurship education programs
 - Utilizing at least 30 South Dakota communities/regions and 5 Native American communities

The REACH Committee

- Provides leadership to South Dakota EPSCoR
- Promotes understanding of EPSCoR programs and their impact on our state
 - Spearheads new policies and resources
 - Ensures rigorous merit review processes
 - Generates high levels of collaboration
 - Keeps EPSCoR responsive to state and regional needs
- Develop and implement the state's first Science and Technology Strategic Development Plan
 - Expand graduate education
 - Strengthen interdisciplinary and collaborative research in targeted "niche" areas
 - Develop the state's research infrastructure
 - Support the Governor's 2010 Initiative
- Members are South Dakota's leading scientists, political leaders, university administrators and representatives of the private sector

South Dakota REACH Committee

Chair

David C. Link
Sioux Valley Hospital & Health Care System

Vice Chair

Open

Executive Director

James Rice
South Dakota EPSCoR Office

Members

James W. Abbott

University of South Dakota

Peggy Miller

South Dakota State University

Charles Ruch

South Dakota School of Mines & Technology

Guatam Pillay

South Dakota School of Mines & Technology

Kevin Kephart

South Dakota State University

Laura Jencki

University of South Dakota

Leland Bordeaux

Sinte Gleska University

Robert T. Tad Perry

Executive Director,
Board of Regents

Scott Meyer

System Vice President for
Research, Board of Regents

Kathryn Johnson

Board of Regents

Jerry Apa

State Senator, Lead

Orville B. Smidt

State Senator, Brookings

Jeff Haverly

State Representative, Rapid City

Phyllis Heineman

State Representative, Sioux Falls

Thomas M. Holm

EROS

Gary Archambault

SBIR/DSU

Mel Ustad

SD Office of Commercialization

Dave Snyder

SD Science & Technology Auth.

Rick Melmer

SD Dept. of Education

Royce C. Engstrom

EPSCoR Coalition, USD

Curt Hage

Home Federal Bank

Aelred J. Kurtenbach

Daktronics, Inc.

Kirby Mellegard

Respec Engineering

Roger Petersen

CorTrust Bank

James Rattling Leaf

Sinte Gleska University

Scott Thompson

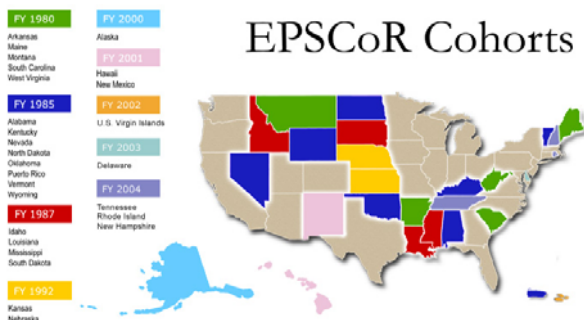
RealTronics Corporation

Ray Trankle

Sioux Valley Hospital & Health Care System

NSF EPSCoR

What is EPSCoR? The National Science Foundation (NSF) created the first **Experimental Program to Stimulate Competitive Research (EPSCoR)** program in 1980. Its success led Congress to expand the program and, since 1990 create EPSCoR-like programs in several federal agencies, including: USDA, NIH, DoD, DOE, NASA and EPA. The EPSCoR program is a merit-based science and technology (S&T) initiative to improve the research capacity, capability and competitiveness of selected universities and non-profit institutions in jurisdictions that have not participated fully in the federal research and development (R&D) enterprise.



Why is EPSCoR Important?

EPSCoR is ensuring that all regions of the country participate in and benefit from the building of an active and competitive R&D base.