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## ADVANCING RESEARCH CREATING SOLUTIONS

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**23 October 2006**

**The Great Plains Network**

- 1. Latest News**
- 2. Upcoming Meetings**
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*By Derek Nelson, GPN Undergraduate Assistant*

**Memorable Quote:**

***“You do not need to be a super-person to do super-computing.”*** Miron Livny, PhD, at the Oklahoma Supercomputing Symposium, October, 2006.

**1. Latest News**

**[Cyberinfrastructure for the Humanities:](#)**

Cyberinfrastructure has changed the face of the sciences in the way that they allow for more interdisciplinary work. The National Science Foundation (NSF) coined the term to describe new research environments that high-performance computing tools were available for research in a shared network setting. Now the American Council of Learned Societies (ACLS) is making the argument that this new technology and networking can be used to improve research in the Humanities. In short, the ACLS wants to find ways to network research involving the human record so that the Humanities may reap the benefits of Cyberinfrastructure.

**[An NSF analysis](#)** Shows that Research and Development Adds to Economic Growth, a new estimate suggests a 6.5% increase from 1995-2002—New calculations from the U.S. Bureau of Economic Analysis (BEA)

suggest research and development (R&D) accounted for a substantial share of the resurgence in U.S. economic growth in recent years. Using data from the National Science Foundation's (NSF) annual surveys of government, academic, industry and non-profit R&D expenditures, the bureau determined R&D contributed 6.5 percent to economic growth between 1995 and 2002.

**[US Doctorates in the 20th Century](#)**—The 20th century was a remarkable era in the history of the United States. This nation, which had been an emerging power on the international scene in 1900, had by century's end become the world's leading power. One of the many factors contributing to this strength was the growth of U.S. doctoral education.

**[“The NSF Cyberinfrastructure Vision: Act Locally and Engage Globally”](#)** by Dr. Dan Atkins—Here is a pdf of Dr. Atkins's presentation at the University of Oklahoma Supercomputing Symposium (2006).

**2. Upcoming Meetings**

**GPN Representative Council**

**Teleconference** - Fourth Wednesday of every month at 10:00 a.m.  
Next: October 25, 2006

**Bioinformatics and Computational Biology**  
**Teleconference** - First Wednesday of every month at 2:00 p.m.

Next: November 1, 2006

## **2. Upcoming Meetings (cont.)**

Middleware/Grid Teleconference - Alternate Fridays at 1:30 p.m.  
Next: October 27, 2006

Middleware/Grid Technical Administration - Alternate Fridays at 1:30 p.m.  
Next: October 20, 2006

[EPSCoR National Conference](#) - November 7-10, 2006.

[NIH Research Festival](#) - October 17-20, 2006.

## **3. New Funding Opportunities**

**United States Department of Commerce**  
[Climate and Weather Impacts on Society and the Environment](#)—NOAA invites applications to establish a cooperative agreement with the agency under the Climate and Weather Impacts on Society and the Environment (CWISE) program.

**Department of Defense**  
[Dynamic Multi-Terabit Core Optical Networks: Architecture, Protocols, Control and Management \(CORONET\) Program](#)—The objective of the CORONET program is to develop the architecture, protocols, and control and management software for highly dynamic, multi-terabit global core optical networks with greatly enhanced performance, survivability and security.

**U.S. Environmental Protection Agency**  
[Office of the Science Advisor Office of Research and Development Broad Agency Announcement for Conferences, Workshops, and/or Meetings](#)—Soliciting applications for the planning, arranging, administering, and conducting of

conferences in the areas of (1) EPA mission related issues connected to protecting, human health and safeguarding the natural environment; (2) advancing the scientific and technical research that promotes environmental protection; (3) exploring current and emerging issues of importance to environmental protection; and/or (4) encouraging collaboration among the nation's best scientists and engineers in academia, business and nonprofit research institutes.

### **NSF**

[Global Environment for Networking Innovations: Establishing the GENI Project Office \(GENI/GPO\)](#) - to support the GENI design and development process, the Directorate for Computer and Information Science and Engineering (CISE) will support the work of a GENI Project Office (GPO) that will work closely with the computing research community and will assume responsibility for completion of all GENI preconstruction planning.

### **NSF**

[High-Performance Computing for Science and Engineering Research and Education: Operations \(User Support, System Administration and Maintenance\)](#) - This solicitation seeks to support research and education in science and engineering that requires the use of high-performance computing systems by providing support for the operation of existing HPC systems. This solicitation is a competitive opportunity for institutions that have significant HPC systems with an expected useful life that extends beyond 2007 and which they wish to make available, through the TeraGrid, to the science and engineering community without restriction to discipline.

#### **4. Recent Awards**

This section is devoted to a list of recent awards around the GPN region. Since September 1, 2006, there have been too many awards to list here. The attached spread sheet contains NSF awards made between September 1 and October 14, 2006. The largest awards for each state are:

##### **Arkansas**

**Baxter, Barbara**; Mid-South Community College; Arkansas Delta Science, Technology, Engineering and Mathematics Talent Expansion Project (ADSTEP); NSF, DUE; \$916,606.00.

##### **Kansas**

**Sorensen, Christopher**; Kansas State University; NIRT: Nanometer Stoichiometric Particle Compound Solutions and Control of their Self-Assembly into the Condensed Phase; NSF, CBET; \$1,200,000.00.

##### **Missouri**

**Pires, Joseph**; University of Missouri - Columbia; Toward Unraveling the Morphological Plasticity and Genome Redundancy of Brassica Oleracea; NSF, DBI; \$1,544,477.00.

##### **Nebraska**

**Perez, Lance**; University of Nebraska - Lincoln; Strengthening Transitions into Engineering Programs; NSF, DUE; \$1,648,354.00.

##### **North Dakota**

**Baker-Big Back, Clarice**; Fort Berthold Community College; FBCC Student Cohort STEM Project; NSF, HRD; \$1,502,000.00.

##### **Oklahoma**

**Roossinck, Marilyn**; Samuel Roberts Noble Foundation, Inc.; Five Thousand Virus Genomes; NSF, EF; \$717,718.00.

##### **South Dakota**

**Fennell, Anne**; South Dakota State University; Functional Genomics of Bud Endodormancy Induction in Grapevines (Vitis); NSF, DBI; \$830,513.00.

#### **5. Campus Notes**

**Vinton Cerf**, vice president and chief Internet evangelist for Google, will present "The Evolving Internet" 11 a.m.-12:30 p.m. Monday, Oct. 23, at Fiedler Auditorium in Fiedler Hall at Kansas State University. Known as one of the founding fathers of the Internet, Cerf will address issues associated with the globalization of information, including intellectual property, privacy, fraud, abuse, scientific research, and interplanetary extension of the Internet.

Please send any notices you would like to share with the GPN community to [den5555@ksu.edu](mailto:den5555@ksu.edu).