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The Great Plains Network

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By Derek Nelson, GPN Undergraduate Assistant

Memorable Quote:

"Information alone is not powerful. Sharing of information is power."

-- Dr. Vinton Cerf at KSU.

Dr. Cerf is Vice President and Chief Internet Evangelist of Google and recognized as one of the founders of the Internet. He spoke at Kansas State University on October 23, 2006.

1. Latest News

The First Great Plains Network GENI Workshop — This workshop will bring together networking researchers across the region to discuss their research, meet the GENI program director, and plan a response to this new NSF program. The meeting is scheduled to take place at Kansas State University on November 30, 2006. The corporate partner for the workshop is the Ciena Corporation. Learn more and register [here](#).

GPN Wiki — This week is the introduction of the new Great Plains Network Wiki. The Wiki includes information for everyone in the consortium, including but not limited to, Projects, Reports, News, Upcoming Meetings, Groups, and an archive of our newsletters. Check it out!

Summerhill Series Initiated in Honor of Former GPN Executive Director – Manhattan, KS - On October 18, 2006,

Kansas State University kicked off the *Summerhill Series* – an opportunity to dialogue with central information technology units about the technical aspects of the network, infrastructure, e-mail, and more.



In addition to being the **founding Executive Director of the Great Plains Network** and Internet2's current Director of Network Research, Architecture, and Technologies, Summerhill is considered by many to be the father of the data network at Kansas State University. He was the architect of the first IP network at KSU in the 1970s, and would hold periodic open meetings to inform the campus community about progress as buildings and departments were added. The series was named after him to acknowledge his pioneering efforts at K-State.

2. Campus Notes

New UNL Computer Science Center Named for Schorrs — Lincoln, Neb., October 21, 2006 — University of Nebraska alumni June and Paul Schorr III of Lincoln have been honored by their son and daughter, Paul "Chip" Schorr IV and Melissa Condo, both of New York City, with the naming of a new computer

science center at the University of Nebraska-Lincoln.

[KU professor brings lessons from European energy policies back to United States](#) – Lawrence, KS — If, as the cliché says, a reporter’s knowledge is a mile wide and an inch deep, then Martin Rosenberg is digging farther into the ground. Rosenberg, a lecturer in the William Allen White School of Journalism and Mass Communications at the University of Kansas, is deepening his knowledge of alternative energy sources and why the United States could take notes from European nations.

3. Recent Awards

[NSF Awards 17 Grants for Research on Biocomplexity in the Environment](#)—The National Science Foundation (NSF) awarded 17 grants to scientists and engineers across the country to study biocomplexity in the environment. Although there were no listed awards in the seven states with GPN members, awards were made to nearby awards:

- University of Illinois—Champaign,
- University of Montana,
- Colorado School of Mines.

NSF: There have been no new awards registered in the NSF database between October 14, 2006, and October 28, 2006.

NIH: Below are FY2006 awards in our region for Bioinformatics and/or Computational Biology from NIH’s CRISP database. They are grouped by State and date.

Kansas

Burns, Jeffrey; [Energy Metabolism and Brain Changes with Age and Alzheimer’s Disease](#); **University of Kansas Medical Center**; issued September 10, 2006;

National Institute of Neurological Disorders and Stroke.

Miller, Donald; [Enabling Turnkey Perinatal Research and Reporting](#); **Enatal, LLC**; issued September 15, 2006; National Institute of Child Health and Human Development.

Missouri

Taber, Larry A.; [Computational Modeling of Developmental Processes](#); **Washington University**—Saint Louis; issued May 1, 2006; National Institute of General Medical Studies.

Genin, Guy; [Mechanics Characterization of Cellular Force Regulation](#); **Washington University**—Saint Louis; issued June 1, 2006; National Heart, Lung, and Blood Institute.

Rivas, Elena; [Computational Approaches to Non-Coding RNA](#); **Washington University**—Saint Louis; issued June 1, 2006; National Institute of General Medical Sciences.

Angelaki, Dora; [Vestibular Influences on Spatial Constancy and Movement Planning](#); **Washington University**—Saint Louis; issued July 1, 2006; National Institute of Deafness and Other Communication Disorders.

Dowell, James C. and Dong Xu; [New Scoring, Assembly and Evaluation Techniques for Protein Structure Prediction](#); **University of Missouri**; issued July 1, 2006; National Institute of General Medical Sciences.

Mennerick, Steven; [Axonal Signaling in the Hippocampus](#); **Washington University**—Saint Louis; issued July 1, 2006; National Institute of Neurological Disorders and Stroke.

Taber, Larry A.; [Computational/Experimental Early Cardiac Morphogenesis](#); **Washington University**—Saint Louis; issued July 1,

2006; National Heart, Lung, and Blood Institute.

Wong, Chung; [Computer-aided Design of Anti-cancer Drugs Targeting Protein Kinases](#); **University of Missouri**—Saint Louis; issued July 1, 2006; National Cancer Institute.

Chen, Swaine; [Computational tests of urinary tract infection mechanism](#); **Washington University**—Saint Louis; issued September 1, 2006; National Institute of Allergy and Infectious Diseases.

Sivakumar, Pitchumani; [Dynamics of Bone Matrix Assembly and Mineralization](#); **University of Missouri**—Kansas City; issued September 1, 2006; National Institute of Arthritis and Musculoskeletal and Skin Diseases.

Wang, David; [A Diagnostic Microarray for hemorrhagic fever encephalitis viruses](#); **Washington University**—Saint Louis; issued September 1, 2006; National Institute of Allergy and Infectious Diseases.

Rao, Dabeeru C.; [Genetic Epidemiology of Cardiovascular Disease and Risk Factors](#); **Washington University**—Saint Louis; issued Sept. 15, 2006; National Heart, Lung, and Blood Institute.

Thoroughman, Kurt A.; [CRCNS: Computational Integration of Human Adaptation and Primate Neurophysiology](#); **Washington University**—Saint Louis; issued October 1, 2006; National Institute of Neurological Disorders and Stroke.

Cheverud, James; [GENETICS OF SCHIZOPHRENIA-RELATED TRAITS IN MICE](#); **Washington University**—Saint Louis; issued 2006; National Institute of Mental Health.

Csernansky, John; [NEUROMORPHOMETRY IN SIBLINGS AT RISK FOR SCHIZOPHRENIA](#); **Washington University**—Saint Louis; issued 2006; National Institute of Mental Health.

Csernansky, John; [PREDICTING COGNITIVE DECLINE IN NONDEMENTED ELDER SUBJECTS](#); **Washington University**—Saint Louis; issued 2006; National Institute on Aging.

Eberlein, Timothy; [Core--Bioinformatics Facility](#); **Washington University**—Saint Louis; issued 2006; National Cancer Institute.

Miller, J. Philip; [CORE--BIOSTATISTICS](#); **Washington University**—Saint Louis; issued 2006; National Institute on Aging.

Townsend, R. Reid; [Core--Proteomics Facility](#); **Washington University**—Saint Louis; issued 2006; National Cancer Institute.

Watson, Mark; [Core--Multiplexed Gene Analysis](#); **Washington University**—Saint Louis; issued 2006; National Cancer Institute.

Nebraska

Sayood, Khalid; [Identification of Biological Materials of Unknown Origin](#); **University of Nebraska**—Lincoln; issued February 1, 2006; National Institute of Allergy and Infectious Diseases.

Sherman, Simon; [CORE--Bioinformatics](#); **University of Nebraska Medical Center**; issued 2006; National Cancer Institute.

North Dakota

May, Slyvio; [Trans-monolayer coupling of membrane domains](#); **North Dakota State University**; issued April 1, 2006; National Institute of General Medical Sciences.

Oklahoma

Matsumoto, Hiroyuki; [CORE--BIOINFORMATICS/PROTEOMICS](#); **University of Oklahoma Health Sciences Center**; issued 2006; National Eye Institute.

Centola, Michael; [CORE--Microarray Core; Oklahoma Medical Research Foundation](#); issued 2006; National Institute of Allergy and Infectious Diseases.

4. New Funding Opportunities

[**IDeA NETWORKS OF BIOMEDICAL RESEARCH EXCELLENCE \(INBRE\), amendment**](#) has been amended to include K-12 institutions.

[**Affordable Sensor Technology Development \(ASTD\) Program**](#) (Department of Defense — Air Force Research Lab) is an effort to develop advanced, revolutionary and innovative radio frequency (RF), microwave and millimeter wave sensor technologies addressing space based, airborne, Unmanned Air Vehicle (UAV) and ground based applications (deadline: Sept. 6, 2008).

[**Biometrics Technologies**](#) (National Institute of Justice) solicits proposals to inform its search for the knowledge and tools to guide policy and practice. NIJ is seeking applications for funding the development and evaluation of biometric technologies, or novel applications of biometric technologies, that will (1) reduce crime, (2) enhance law enforcement and corrections officers' ability to correctly identify cooperative and non-cooperative individuals, and (3) fix the identity of individuals in the justice system (deadline: Nov. 2, 2006).

[**Critical Zone Observatories**](#) (National Science Foundation) solicitation calls for proposals to develop Critical Zone Observatories that will operate at the watershed scale and that will significantly advance our understanding of the integration and coupling of Earth surface processes as mediated by the presence and flux of fresh water (deadline: Jan. 2, 2007).

[**Developmental and Learning Sciences**](#) (National Science Foundation) program supports studies that increase our understanding of cognitive, linguistic, social, cultural, and biological processes related to children's and adolescents' development and learning (deadline: Feb. 17, 2007).

[**Developmental Systems Cluster**](#) (National Science Foundation) focuses on the nature, control, and evolution of those processes that comprise the life cycle of organisms. This area includes research on the mechanisms of gametogenesis, fertilization, embryogenesis, differentiation, pattern formation, and morphogenesis, including research on the development, regeneration, and aging of the nervous system (deadline: Jan. 12, 2007).

[**Dynamical Systems**](#) (National Science Foundation) program supports fundamental advances in the understanding, design and operation of dynamic systems, including acoustics, vibrational response, and kinematic relationships; active noise and vibration control technologies; modeling and simulation of nonlinear time-varying and distributed systems (deadline: Feb. 15, 2007).

[**Facilitating Interdisciplinary Research via Methodological and Technological Innovation in the Behavioral and Social Sciences \(R21\) Grant**](#) (National Institutes of Health) solicits applications to develop new/innovative measures, methods, and technologies that support the interdisciplinary integration of human social and/or behavioral science with other disciplines across varying levels of analysis. -This FOA is part of the NIH Roadmap for Medical Research Initiative (deadline: Feb. 24, 2007).

[**Geography and Regional Science**](#) (National Science Foundation) Program sponsors research on the geographic distributions and interactions of human,

physical, and biotic systems on the Earth's surface. Investigations are encouraged into the nature, causes, and consequences of human activity and natural environmental processes across a range of scales (deadline: Jan. 15, 2007).

Information-Led Policing Research, Technology Development, Testing, and Evaluation Grant (National Institute of Justice) solicits proposals to inform its search for the knowledge and tools to guide policy and practice. NIJ is seeking applications for funding the research, development, testing, and evaluation of information and data technologies that can be used to increase the effectiveness of State and local law enforcement agencies (deadline: Nov. 24, 2006).

Networking Technology and Systems (National Science Foundation) program solicits proposals from the networking research and education community, encouraging investigators to make bold assumptions about the future of networking. The scope of the program covers all properties of information networks including network architecture, protocols, algorithms, and proof of concept implementation of hardware and software (deadline: Jan. 27, 2007).

Physics at the Information Frontier (National Science Foundation) This program provides support for physics proposals in three subareas: computational physics, information intensive physics, and quantum information and revolutionary computing. Computational physics focuses on computational problems in physics requiring significant long-term code development, and/or medium to large collaborations involving physicists or physicists interacting with applied mathematicians and computer scientists (deadline: Sept. 26, 2007).

Research and Development on Crime Scene Tools, Techniques, and

Technologies (National Institute of Justice) solicits proposals to inform its search for the knowledge and tools to guide policy and practice. With this solicitation, NIJ seeks proposals for research and development to enhance forensic crime scene examinations (deadline: Nov. 20, 2006).

Scientific Discovery Through Advanced Computing: Climate Change Prediction Program Grant (US Department of Energy Chicago Service Center) interest in receiving applications for research grants in the Climate Change Prediction Program (CCPP), which is a component of the U.S. Climate Change Science Program (CCSP) (deadline: Jan. 25, 2007).

5. Upcoming Meetings

The First Great Plains Network/GENI Workshop — The workshops will occur at Kansas State University on November 30, 2006. Professor Caterina Scoglio, caterina@ksu.edu, or Dr. Greg Monaco, greg@greatplains.net.

GPN Representative Council Teleconference — Fourth Wednesday of every month at 10:00 a.m. Next: November 22, 2006

Bioinformatics/Computational Biology Teleconference — First Wednesday of every month at 2:00 p.m. Next: November 1, 2006

Middleware/Grid Teleconference — Alternate Fridays at 1:30 p.m. Next: November 10, 2006

Middleware/Grid Technical Administration - Alternate Fridays at 1:30 p.m. Next: November 3, 2006

EPSCoR National Conference — November 7-10, 2006.

NSF Regional Grants Conference —

The second National Science Foundation Regional Grants Conference of fiscal year 2007 will be hosted by Oklahoma State University on **March 19 - 20, 2007** in Oklahoma City, with optional FastLane workshops on March 18th.

Please send any notices you would like to share with the GPN community to den5555@ksu.edu.