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scientists, Matt Forir, the cave's lead paleontologist, will host this virtual tour to allow students a unique glimpse into prehistoric life. Students will observe stunning cave formations and artifacts such as a bear bed, animal tracks and fossils, plus they'll be able to interact with Matt, learning real-world applications for the research and discoveries in the cave.

By Dena Bunnel, Member Coordinator

GPN2008: Program Committee

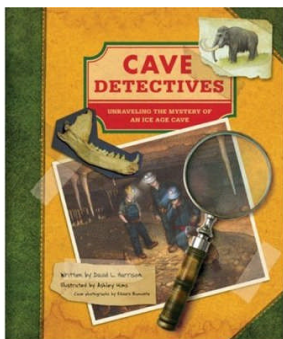
GPN is looking for people who are interested in serving on the program committee to plan the 2008 GPN annual meeting. We are also taking recommendations for keynote speakers for the upcoming conference. If you would like to serve on the committee or have any recommendations, suggestions or comments, please contact Greg Monaco, greg@greatplains.net, or Dena Bunnel, denab@ksu.edu.

[GPN Disaster Recovery - Disaster Management Workshop Held in Omaha](#)

- Recent events of the last two years have made the issues of disaster preparedness and disaster management much more prominent in our community. Not surprisingly, the topic of disaster management was one of the first discussed on the regular GPN Representative Council teleconferences that began about a year ago. At GPN2007 in Kansas City, Del Johnson (Representative Council member from South Dakota State) led a roundtable discussion on DM: The outcome of that discussion was a recommendation for a focused DM meeting to learn about technologies and explore partnership opportunities that GPN could facilitate in the DM realm. Scott Silverstein from our corporate affiliate, CIENA, put together a DR workshop, held September 25 and 26 in Omaha, NE, for GPN members. The presentations from that meeting are [here](#).

1. Latest News

[Riverbluff Cave Virtual Tour](#) - GPN & MOREnet Take You Where Only a Few Have Gone Before



Join us for a virtual tour of Riverbluff Cave – at nearly 1 million years old, it is one of the oldest caves in North America. This preserved ice-age environment is so

fragile that only a few highly trained scientists are allowed to enter. One of these

Leave feedback and comments about the Disaster Recovery Workshop at GPN's new blog! [Get registered and start blogging.](#)

[EPSCoR Cyberinfrastructure Meeting](#) –

The University of Kentucky hosted a special assessment of cyberinfrastructure for the NSF EPSCoR office. EPSCoR is the Experimental Program to Stimulate

Competitive Research. Representatives from the region at the meeting included Joseph Evans (KU), Claude Garelik and Scott Meyer (SD Board of Regents), James Rattling Leaf (Sinte Gleska), Bill Ashmore (UAF) and Srini Ramaswamy (UALR), Ron Marsh (UND), Marc Wallman (NDSU), Lynn Kubeck (UND), Henry Neeman (OU), Janet Poley (ADEC), Rich Sinovec and David Swanson (UNL), Greg Monaco (GPN). You can find both state and regional presentations at the link above.

Oklahoma Supercomputing Symposium

– “The recent OU Supercomputing Symposium was, as ever, a great time to get together with colleagues from other GPN universities.

At the GPN Roundtable, facilitated primarily by Amy Apon of the University of Arkansas, there were presentations from the University of Missouri, from the University of Oklahoma, and discussion among twenty to thirty colleagues.

After lunch Gaurav Chauhan, a new Grad Assistant of mine from the KSU CS Department, got a lesson in setting up and LDAP server from Denis Hancock of UMC. Then Bill Spollen (UMC) and Denis demonstrated their work with Gordon Springer, on managing entitlements via a Shibboleth entitlement server. This is really ground-breaking work that puts control of a Shibbolized resource in the hands of the resource provider rather than relying on the identity provider. Gordon and Ken Bishop were virtual participants via a phone bridge that Henry Neeman and his crew graciously provided.

Next, Henry Neeman explained how those of us who are partners in the CI-Team project can get an account on the Condor pool there at OU.” – Greg Monaco

What did you think of the symposium? Leave feedback at GPN's new [blog!](#)

2. GPN Representative Profile

University of Missouri – Kansas City

David Johnston

UMKC Director of Networking & Telecommunications



David Johnston is the Director of Networking & Telecommunications for the University of Missouri-Kansas City. He earned his degree in Computer Science from the University of Missouri-Rolla and over the past 21 years has designed, installed, supported and managed computer networks at UMKC from BITnet to Internet2 and SNA to switched gigabit Ethernet. Today he manages the staffs that support UMKC's voice and data networks and the fiber optic and copper cable plants spread across a 120 acre urban campus and throughout 100 buildings.

He has been a guest lecturer in Computer Science Network classes made presentations at HELIX and the Great Plans Network conferences on subjects like VoIP, Infrastructure Management and written or coauthored papers on Infrastructure Management and Emergency 911 services in a VoIP Environment.

Personal Note:

GPN has always been a great partner to UMKC bringing Internet2 and regional network connectivity to the Midwest. I have always tried to help promote their focus of collaboration in research, computing and network support. GPN provides a plethora of information not only on funding and research opportunities but on a wide range of technical topics through their web site, newsletters and regional conferences. I hope to see you at GPN's next event.

3. Campus Notes

[South Dakota to Receive Underground Lab](#)

- The National Science Foundation (NSF) has selected the former Homestake mine in Lead, S.D. as the site to be developed as the proposed Deep Underground Science and Engineering Laboratory (DUSEL). The lab will affect education and research activities at several GPN universities in South Dakota.



Related articles:

[National Science Lab brings exciting opportunities to BHSU](#)

[National Science Foundation Selects Homestake as Deep Underground Science and Engineering Laboratory](#)

[‘Dark fiber’ gives KU and K-State a light-speed link to the world](#)

- A new agreement between the University of Kansas and Kansas State University provides researchers, students and faculty access to an unused fiber optic cable that runs alongside Interstate 70 in northeast Kansas.

“This will connect KU and K-State to the Kansas City hub of fiber optic networks,” said Denise Stephens, vice provost for Information Services and chief information officer at KU. “Whether it’s through Internet2 or National LambdaRail, the major research network, we’ll have direct access. This will enable researchers to share data,

collaborate and communicate with greater versatility and efficiency.”

[Oklahoma State Preparing Students for Work in Nanotechnology](#)

- Before 2010, the market for nanotechnology products and services is estimated to reach \$1 trillion in the U.S. economy and will require from 800,000 to two million new workers. Most of these workers will need at least two-year postsecondary degrees.

To help address these needs, the Oklahoma Department of Career and Technology Education and Oklahoma State University-Okmulgee have launched the Oklahoma Nanotechnology Education Initiative. This initiative recently received a boost in the form of a \$598,000 Advanced Technological Education grant from the National Science Foundation.



OSU-Okmulgee President Bob Klabenes says this grant helps address two major issues in creating the highly skilled technicians needed to meet the demand of emerging nanotechnology companies in Oklahoma. “First, we have to develop awareness and excitement among middle school and high school students about the enormous career opportunities this field will offer,” says Klabenes. “Then, we have to have sophisticated teaching facilities and labs so that students can have hands-on learning experiences with extremely complex equipment.”



Grant to Fund the Future of Science Education at the University of Arkansas

- The National Science Foundation has awarded the University of Arkansas a three-year, \$749,856 grant to fund scholarships for students preparing to become teachers in mathematics or science.

At least 36 future teachers will receive scholarships in a Phase I grant through the NSF's Robert Noyce Scholarship Program.

The scholarships will be available to three types of students: those who have completed an undergraduate degree in science, technology, engineering and mathematics and would like to teach but do not have the financial means to pursue teacher preparation; professionals seeking a career change; and students near the end of their junior year who demonstrate an aptitude for teaching and are considering it as a career. The program would support such students during their senior and master's years.

4. Funding Opportunities from the National Science Foundation

Cyber-Enabled Discovery and Innovation (CDI) - Letter of Intent Window: October 30, 2007 - November 30, 2007; Preliminary Proposal Window: December 7, 2007 - January 8, 2008; Full Proposal Window: March 28, 2008 - April 29, 2008.

Sustainable Digital Data Preservation and Access Network Partners (DataNet) - Preliminary Proposal: January 7, 2008; Full Proposal: March 21, 2008.

Software for Real-World Systems (SRS) - Full Proposal: January 17, 2008.

Expeditions in Computing - Letter of Intent: November 5, 2007; Preliminary Proposal: December 30, 2007; Full Proposal: April 1, 2008.

Center for the Environmental Implications of Nanotechnology (CEIN)

- Preliminary Proposal: December 10, 2007; Full Proposal: March 17, 2008. **By invitation only.**

Postdoctoral Research Fellowships in Biology

- Full Proposal: November 5, 2007

Information and Intelligent Systems: Advancing Human-Centered Computing, Information Integration and Informatics, and Robust Intelligence

- Full Proposal for Medium Projects: October 23, 2007; Full Proposal for Large Projects: November 19, 2007; Full Proposal for Small Projects: December 10, 2007.

Research Experiences for Undergraduates (REU)

- Full Proposal: June 6, 2008.

Broadening Participation in Computing (BPC)

- Full Proposal: May 21, 2008.

Scientific Computing Research Environments for the Mathematical Sciences (SCREMS)

- Full Proposal: January 24, 2008.

Strategic Technologies for Cyberinfrastructure (STCI)

- Full Proposal: February 14, 2008.

High Performance Computing System Acquisition: Towards a Petascale Computing Environment for Science and Engineering

- Full Proposal: November 30, 2007.

Presidential Awards for Excellence in Science, Mathematics and Engineering Mentoring

- Full Proposal: March 4, 2008; Annually

Foundations of Computing Processes and Artifacts (CPA)

- Full Proposal: December 7, 2007.



5. Recent Awards

NSF: Here are the new NSF awards that were registered between January and September, 2007.

Arkansas

Start Date: 9/1/2007; **Apon, Amy;** MRI: Acquisition of a Supercomputing Cluster for Computational and Data-Intensive Applications in Science and Engineering; University of Arkansas; \$803,306; (722625).

Start Date: 9/1/2007; **Bellaiche, Laurent;** Complex Phenomena in Ferroelectrics and Multiferroics from First Principles; University of Arkansas; \$190,000; (701558).

Start Date: 5/15/2007; **Gron, Liz;** Educating Green Citizens and Scientists for a Sustainable Future; Hendrix College; \$149,640; (633227).

Start Date: 9/1/2007; **Hannigan, Robyn;** URM: Cross-disciplinary Research at the Intersection of Biotechnology and the Environment; Arkansas State University Main Campus; \$309,863; (731603).

Start Date: 10/1/2007; **Hu, Chenyi;** RUI: Knowledge Processing with Interval Methods; University of Central Arkansas; \$150,000; (727798).

Start Date: 9/15/2007; **Lanza, Janet;** University of Arkansas at Little Rock Science Scholars (USS); University of Arkansas Little Rock; \$579,175; (728551).

Start Date: 9/15/2007; **Malshe, Ajay;** Workshop/Collaborative Research: Grand Challenges for Bio-Nano Integrated Manufacturing for Year 2020; October 3-5, 2007; Arlington, Virginia; University of Arkansas; \$13,298; (738380).

Start Date: 9/1/2007; **Mattioli, Glen;** Collaborative Research: Facility Support for the CALIPSO Borehole Observatory, Soufriere Hills Volcano, Montserrat; University of Arkansas; \$100,039; (732728).

Start Date: 9/1/2007; **Meller, Russell;** Collaborative Research: Developing an Engineering Virtual Organization for Discrete-Event Logistics Systems; University of Arkansas; \$23,920; (742744).

Start Date: 9/1/2007; **Nam, Chang;** I FEEL SCIENCE: Innovative Flexible Experimental Environment for Learning in SCIENCE; University of Arkansas; \$570,028; (736221).

Start Date: 9/1/2007; **Ramaswamy, Srinivasan;** IRES: U.S.-France Cooperative Research in Engineering Innovative Software Systems with Applications to Maritime Transportation Logistics; University of Arkansas Little Rock; \$149,964; (729792).

Start Date: 8/1/2007; **Smith, Scott;** Collaborative Research: Integrating Asynchronous Digital Design into the Undergraduate Computer Engineering Curriculum throughout the Nation; University of Arkansas; \$377,438; (717572).

Start Date: 9/15/2007; **Stewart, Gay;** Robert Noyce Scholarship Program for Math, Science and Engineering K-12 Teachers; University of Arkansas; \$260,945; (733841).

Start Date: 9/15/2007; **Vickers, Ken;** Graduate and Undergraduate Scholarships for Micro/Nanoscale Materials and Processing, including Creation of Advanced Electronic/Photonics Devices; University of Arkansas; \$599,779; (728636).

Start Date: 9/15/2007; **Walker, Jessie;** Collaborative Research: BPC-A: ARTSI: Advancing Robotics Technology for Social Impact; University of Arkansas at Pine Bluff; \$41,625; (742098).

Kansas

Start Date: 1/1/2008; **Bohling, Geoffrey;** Small County: Web-based Instruction in the Geological Characterization of Petroleum Reservoirs; University of Kansas Center for Research Inc; \$148,132; (736917).



Start Date: 10/1/2007; **Braaten, David**; Collaborative Reserach: IPY: GAMBIT: Gamburtsev Aerogeophysical Mapping of Bedrock and Ice Targets; University of Kansas Center for Research Inc; \$100,000; (632321).

Start Date: 5/1/2007; **Chen, Xue-Wen**; CAREER: Machine Learning Approaches for Genome-wide Biological Network Inference; University of Kansas Center for Research Inc; \$345,662; (644366).

Start Date: 5/1/2007; **Desaire, Heather**; CAREER: A synergistic approach to glycoprotein remodelling and analysis; University of Kansas Center for Research Inc; \$275,000; (645120).

Start Date: 12/1/2007; **Ginther, Donna**; Collaborative Research MOD: Contributions of Foreign Students to Knowledge Creation and Diffusion; University of Kansas Center for Research Inc; \$294,280; (738347).

Start Date: 9/1/2007; **Glymour, Bruce**; Research Communication Ethics Project; Kansas State University; \$100,000; (734922).

Start Date: 9/1/2007; **Hatcliff, John**; Development of an Open Test-bed for Application of Formal Methods to Plug and Play Medical Devices; Kansas State University; \$55,000; (734204).

Start Date: 10/1/2007; **Holder, Mark**; Collaborative Research: Large-scale simultaneous multiple alignment and phylogeny estimation; University of Kansas Center for Research Inc; \$69,720; (732920).

Start Date: 9/1/2007; **Huang, Weizhang**; Efficient dynamic mesh adaptation for numerical simulation of evolutionary problems arising from physical science; University of Kansas Center for Research Inc; \$130,000; (712935).

Start Date: 9/1/2007; **Medvedev, Mikhail**; Multi-Epoch and Multi-Color Modeling of Gamma-Ray Burst Sources; University of Kansas Center for Research Inc; \$133,429; (708213).

Start Date: 9/15/2007; **Munson, Eric**; GOALI: New Techniques for Solid-State NMR Studies of Pharmaceuticals; University of Kansas Center for Research Inc; \$372,026; (719464).

Start Date: 9/1/2007; **Nagel, Joane**; SGER: Workshop: Sociological Perspectives on Global Climate Change; University of Kansas Center for Research Inc; \$56,750; (744020).

Start Date: 9/15/2007; **None, None**; Graduate Research Fellowship Program; Kansas State University; \$40,500; (750823).

Start Date: 5/1/2007; **Ostermann, Russell**; REU Site: REU in Chemical and Petroleum Engineering; University of Kansas Center for Research Inc; \$103,850; (649257).

Start Date: 9/15/2007; **Pierotti, Raymond**; Collaborative Research: Native American Science Curriculum; University of Kansas Center for Research Inc; \$350,000; (717828).

Start Date: 6/1/2007; **Thumm, Uwe**; Quantum Dynamics in Particle Interactions with Atomically Flat and Nano-Structured Surfaces; Kansas State University; \$65,000; (653624).

Start Date: 5/1/2007; **Twomey, Janet**; Wichita State University (WSU) Industry University Cooperative Research Center for the Reduction of Waste in Aerospace Logistic Systems; Wichita State University; \$10,000; (654337).

Start Date: 5/15/2007; **Walker, J. Douglas**; Collaborative Research: How is Strain of the Eastern California Shear Zone Transferred Across the Garlock Fault?; University of Kansas Center for Research Inc; \$113,979; (643249).

Start Date: 9/15/2007; **Walker, J. Douglas**; Collaborative Research: Facility Support: Building the INTERFACE Facility for Cm-Scale, 3D Digital Field Geology; University of Kansas Center for Research Inc; \$13,770; (651230).



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Start Date: 6/1/2007; **Walton, Krista;** Functional Microporous Metal-Organic Materials for Adsorption Applications: Experimental Investigations and Molecular Modeling; Kansas State University; \$260,328; (700489).

Start Date: 10/1/2007; **Wiley, Edward;** Collaborative Research: Assembling the Euteleost Tree of Life - Addressing the Major Unresolved Problem in Vertebrate Phylogeny; University of Kansas Center for Research Inc; \$247,772; (732819).

Start Date: 9/1/2007; **Wyglinski, Alexander;** NeTS-WN: Quantification of Spectrum Availability for Wireless Network Access; University of Kansas Center for Research Inc; \$79,127; (721914).

Start Date: 10/1/2007; **Zollman, Dean;** Collaborative Research: Coupling Conversational Interactivity with Multimedia in Support of Physics Learning; Kansas State University; \$329,238; (632587).

Missouri

Start Date: 9/1/2007; **Bohner, Martin;** Time Scales in Economics and Finance; University of Missouri-Rolla; \$100,000; (624127).

Start Date: 9/1/2007; **Braddock-Wilking, Janet;** Novel Metalloles Containing Heavy Group 14 Elements; University of Missouri-Saint Louis; \$262,876; (719380).

Start Date: 9/1/2007; **Browman, David;** Doctoral Dissertation Improvement Grant: "A Zooarchaeological Perspective on the Development of Camelid Pastoralism in the South Central Andes of Bolivia"; Washington University; \$14,967; (737793).

Start Date: 9/1/2007; **Eckdahl, Todd;** Collaborative Research: UBM Group: Synthetic Biology Research for Undergraduates (SyBR-U); Missouri Western State College; \$170,000; (733955).

Start Date: 5/15/2007; **Evans, Kevin;** Age and Origin of the Weaubleau Structure: A Possible Meteorite Impact in Missouri;

Missouri State University; \$133,000; (642405).

Start Date: 9/15/2007; **Frey, Regina;** An Analysis of Discourse in Peer-Led Team Learning; Washington University; \$150,000; (633202).

Start Date: 9/15/2007; **Goodenough, Ursula;** Molecular Analysis of Uniparental Inheritance of Chloroplast DNA in *Chlamydomonas Reinhardtii*; Washington University; \$150,000; (717179).

Start Date: 9/15/2007; **Hemingway, Claire;** Planting Science Research in Education; Botanical Society of America; \$576,996; (733280).

Start Date: 9/15/2007; **Hemingway, Claire;** Plant IT Careers, Cases, and Collaborations; Botanical Society of America; \$932,323; (737669).

Start Date: 9/1/2007; **Herrera, Jose;** RIG: Characterizing the Role of Dark Septate Endophytes Within Semi-arid Grasslands; Truman State University; \$164,166; (715746).

Start Date: 9/15/2007; **Hoffer, Lee;** Merging Agent-based Modeling Techniques and Ethnography: A New Analytic Tool for Studying Illicit Drug Use Behaviors, Markets and Economies; Washington University School of Medicine; \$197,042; (724320).

Start Date: 9/15/2007; **Hovmand, Peter;** Impact of Implementing Evidence Based Practices on Organizational Performance; Washington University; \$253,785; (724577).

Start Date: 6/1/2007; **Krantz, Steven;** Complex Geometry at the Banach Center in Warsaw; Washington University; \$19,600; (703232).

Start Date: 10/1/2007; **Law, Dale;** Viticulture and Enology Science and Technology Alliance (VESTA); Missouri State University; \$1,645,889; (703163).

Start Date: 9/15/2007; **Lee, Yugyung;** SGER: ARTISAN - Art Inspired Service



Oriented Architecture Design; University of Missouri-Kansas City; \$200,000; (742666).

Start Date: 10/1/2007; **Li, Jr-Shin**; SGER: THEORY AND APPLICATIONS OF ENSEMBLE CONTROL; Washington University; \$37,500; (744090).

Start Date: 8/1/2007; **Liu, Mian**; PIRE: A US-China partnership in research and education of intraplate earthquakes; University of Missouri-Columbia; \$442,600; (730154).

Start Date: 5/15/2007; **Marquis, Robert**; Dissertation Research: Impacts of an invasive plant, amur honeysuckle (*Lonicera maackii*: Caprifoliaceae), on biodiversity through biotic interactions; University of Missouri-Saint Louis; \$12,000; (710341).

Start Date: 9/1/2007; **Miller, James**; NSF/FDA Scholar-in-Residence at FDA; Washington University; \$240,569; (717830).

Start Date: 1/1/2008; **Oboh-Ikuenobe, Francisca**; Collaborative Research: The Evolution of Extremely Acid Lakes and Groundwaters in Western Australia; University of Missouri-Rolla; \$76,980; (719838).

Start Date: 9/15/2007; **Peculis, Brenda**; Identifying the Biological Role of the Nuclear Decapping Proteins; University of Missouri-Columbia; \$142,305; (718256).

Start Date: 12/15/2007; **Prasad, Amit**; Scholar's Award: Scanning the Globe: Magnetic Resonance Imaging (MRI) Research and Development in the United Kingdom, India and the United States; University of Missouri-Columbia; \$73,550; (724474).

Start Date: 9/15/2007; **Schofield, Norman**; Activist Coalitions: Modeling Elections and Regime Change; Washington University; \$172,420; (715929).

Start Date: 9/1/2007; **Shen, Amy**; Collaborative Research: MPSA-ENG: Interplay of Biosensing and Locomotion in Confined Microfluidic Environments;

Washington University; \$240,000; (700830).

Start Date: 9/1/2007; **Skubic, Marjorie**; HCC: Elder-Centered Recognition Technology for the Assessment of Physical Function; University of Missouri-Columbia; \$200,000; (703692).

Start Date: 9/15/2007; **Smith, Douglas**; Phenomenological-Based Constitutive Model and Simulation of Fiber Interaction for Short Fiber Composite Processing; University of Missouri-Columbia; \$112,661; (727399).

Start Date: 5/15/2007; **Speck, Angela**; CAREER: A multi-faceted investigation of the astromineralogy and evolution of dust around low- and intermediate mass evolved stars; University of Missouri-Columbia; \$204,494; (642991).

Start Date: 10/1/2007; **Stone, Robert**; Collaborative Research: VOICED - A Virtual Organization for Innovative Conceptual Engineering Design; University of Missouri-Rolla; \$76,000; (742677).

Start Date: 9/15/2007; **Sun, Dongchu**; Bayesian Models for Assessing Shape and Covariance in Behavioral Data; University of Missouri-Columbia; \$140,506; (720229).

Start Date: 1/1/2008; **Van Aken, David**; AHSS:Development of Nano-acicular Duplex Steels; University of Missouri-Rolla; \$86,610; (726888).

Start Date: 9/15/2007; **Vignale, Giovanni**; Many-Body Theory of Electronic Dynamics and Transport; University of Missouri-Columbia; \$220,000; (705460).

Start Date: 9/1/2007; **Ward, Carol**; Hominoid Torso Anatomy and Evolution; University of Missouri-Columbia; \$193,401; (716244).

Start Date: 10/1/2007; **Wiens, Douglas**; Collaborative Research: A Broadband Seismic Experiment to Image the Lithosphere Beneath the Gamburtsev Mountains and Surrounding Areas, East Antarctica; Washington University; \$108,233; (537597).



Start Date: 10/1/2007; **Wiens, Douglas**; IPY: POLENET-Antarctica: Investigating Links Between Geodynamics and Ice Sheets; Washington University; \$82,535; (632209).

Start Date: 9/1/2007; **Wright, Barth**; Collaborative Research: Integrative Analysis of Hominid Feeding Biomechanics; Kansas City University of Medicine and Biosciences; \$21,662; (725136).

Start Date: 9/1/2007; **Yatskievych, George**; Collaborative Research: The Roles of Polyploidy and Apomixis in Shaping the Diversity and Distribution of Cheilantheid Ferns; Missouri Botanical Garden; \$37,856; (717430).

Nebraska

Start Date: 9/1/2007; **Allen, David**; International Research Experience for Students (IRES): U.S.-Sweden Work, Engineering and Design in Nanotechnology; University of Nebraska-Lincoln; \$140,000; (728242).

Start Date: 9/15/2007; **Dzenis, Yuris**; NIRT: NanoManufacturing and Analysis of Active Hierarchical Nanofilamentary Nanostructures; University of Nebraska-Lincoln; \$1,000,000; (709333).

Start Date: 8/1/2007; **Fabrikant, Ilya**; Electron-Molecule Collisions in Different Environments; University of Nebraska-Lincoln; \$80,000; (652866).

Start Date: 9/1/2007; **Fielding, Christopher**; Collaborative Study: Re-evaluation of the Late Paleozoic Gondwanan Ice Age in Northern Victoria Land (Antarctica) and Tasmania (Australia); University of Nebraska-Lincoln; \$31,979; (635540).

Start Date: 9/1/2007; **Gardner, Scott**; Mongolia Vertebrate Parasite Project; University of Nebraska-Lincoln; \$429,999; (717214).

Start Date: 9/15/2007; **Hibbing, John**; Collaborative Research: Investigating the Genetic Basis of Economic Behavior;

University of Nebraska-Lincoln; \$141,506; (721707).

Start Date: 9/15/2007; **Houston, Adam**; Collaborative Research: SGER--Unmanned Aircraft System for In-Situ Sensing Along Atmospheric Airmass Boundaries; University of Nebraska-Lincoln; \$48,571; (715875).

Start Date: 9/1/2007; **Lenters, John**; Collaborative Research: Changes in Lake Dynamics on the Arctic Coastal Plain of North America Over the Past Half-Century; University of Nebraska-Lincoln; \$114,087; (713822).

Start Date: 10/1/2007; **Lu, Guoqing**; Collaborative Research: Assembling the Euteleost Tree of Life - Addressing the Major Unresolved Problem in Vertebrate Phylogeny; University of Nebraska at Omaha; \$74,335; (732969).

Start Date: 9/1/2007; **Lu, Ying**; CSR-AES: Adaptive Real-Time Scheduling for Grid Computing; University of Nebraska-Lincoln; \$125,000; (720810).

Start Date: 10/1/2007; **Moriyama, Etsuko**; Collaborative Research: Large-scale simultaneous multiple alignment and phylogeny estimation; University of Nebraska-Lincoln; \$135,785; (732863).

Start Date: 10/1/2007; **Orti, Guillermo**; Collaborative Research: Assembling the Euteleost Tree of Life - Addressing the Major Unresolved Problem in Vertebrate Phylogeny; University of Nebraska-Lincoln; \$267,865; (732838).

Start Date: 9/15/2007; **Rajurkar, Kamlakar**; Workshop/Collaborative Research: Grand Challenges for Bio-Nano Integrated Manufacturing for Year 2020; October 3-5, 2007; Arlington, Virginia; University of Nebraska-Lincoln; \$14,529; (738379).

Start Date: 9/1/2007; **Ratcliffe, Brett**; Faunistic Survey of the Dynastinae (Coleoptera: Scarabaeidae) of Mexico, Guatemala, and Belize; University of Nebraska-Lincoln; \$199,929; (716899).



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Start Date: 9/1/2007; **Rohde, Suzanne**; Thin Film Growth and Surface Modification through High Powered Pulsed Magnetron Sputtering; University of Nebraska-Lincoln; \$250,000; (727818).

Start Date: 9/1/2007; **Scott, Durelle**; Collaborative Research: In Situ Examination of Hydrogen Peroxide Sources and Sinks in a Slightly Alkaline Stream; University of Nebraska-Lincoln; \$115,808; (720172).

Start Date: 9/15/2007; **Soh, Leen-Kiat**; iLOG: Embedding and Validating Empirical Usage Intelligence in Learning Objects; University of Nebraska-Lincoln; \$262,810; (632642).

Start Date: 9/15/2007; **Thomas, Steven**; Collaborative Research: A Stoichiometric Approach to Coupled N and P Cycling in Headwater Streams; University of Nebraska-Lincoln; \$51,345; (715117).

Start Date: 9/15/2007; **Wiener, Richard**; Self-referencing, Social Identity and Judgments of Sexual Harassment; University of Nebraska-Lincoln; \$302,364; (717583).

Start Date: 5/1/2007; **Woodward, Gordon**; REU Site: Nebraska REU in Applied Mathematics; University of Nebraska-Lincoln; \$251,823; (649104).

Oklahoma

Start Date: 10/1/2007; **Broughton, Richard**; Collaborative Research: Assembling the Euteleost Tree of Life - Addressing the Major Unresolved Problem in Vertebrate Phylogeny; University of Oklahoma Norman Campus; \$258,261; (732899).

Start Date: 6/1/2007; **Fincke, Ola**; The Evolution of Female-Specific Color Variation in Damselies; University of Oklahoma Norman Campus; \$372,359; (641679).

Start Date: 9/1/2007; **Hellmer, Ronald**; SBIR Phase II: Photon-Assisted Hydrogenation Process Technology for Manufacturability and Improved Operability of HgCdTe Infrared Detectors; Amethyst

Research Incorporated; \$430,775; (724233).

Start Date: 9/15/2007; **Keller, George**; Workshop on the Role of Controlled Source Seismology in the EarthScope Project; San Antonio, Texas; September 2007; University of Oklahoma Norman Campus; \$29,952; (750840).

Start Date: 9/15/2007; **Matzen, Richard**; Financial Support for Talented Undergraduates in Mathematics and Computer Science; Northeastern State University; \$599,355; (728529).

Start Date: 5/15/2007; **Melcher, Ulrich**; Plant Virus Ecology Research Coordination Network; Oklahoma State University; \$109,797; (639139).

Start Date: 5/15/2007; **Pereyra, Maria Elena**; Research Starter Grant: Neuroendocrine modulation of avian breeding schedules; University of Tulsa; \$50,000; (639573).

Start Date: 5/1/2007; **Sen, Sandip**; Autonomous Agents and Multiagent Systems - 07 (AAMAS-07) Student Travel Grant; Honolulu, Hawaii; May 14-18, 2007; University of Tulsa; \$26,250; (714176).

Start Date: 9/1/2007; **Sikavitsas, Vassilios**; Flow effects in porous scaffolds for tissue regeneration; University of Oklahoma Norman Campus; \$400,000; (700813).

Start Date: 9/1/2007; **Summy, Gil**; Complex potentials and collisional modification in cold atoms using electromagnetically induced transparency; Oklahoma State University; \$242,430; (653494).

Start Date: 9/15/2007; **Udvardi, Michael**; Development of Genetic Resources to Dissect Gene Regulatory Networks Governing Nodule Development and Differentiation in *Medicago truncatula*; Samuel Roberts Noble Foundation, Inc.; \$1,026,813; (703285).



Start Date: 9/1/2007; **Yeary, Mark**; MRI: Development of a Multi-Channel Receiver for the Realization of Multi-Mission Capabilities at the National Weather Radar Testbed; University of Oklahoma Norman Campus; \$699,440; (723132).

Start Date: 9/1/2007; **Zhang, Weili**; Terahertz Response of Unique Composite Metamaterials; Oklahoma State University; \$270,000; (725764).

South Dakota

Start Date: 9/1/2007; **Abraham, Ross**; Scholarships and Educational Enhancements for Students in Science, Technology, Engineering, and Mathematics; South Dakota State University; \$600,000; (728584).

Start Date: 9/1/2007; **Fu, Xinwen**; Collaborative Research: WN: Proper Location Identification in Wireless Networks; Dakota State University; \$68,326; (721766).

Start Date: 6/1/2007; **Mabee, Paula**; Linking Evolution to Genomics Using Phenotype Ontologies; University of South Dakota Main Campus; \$607,026; (641025).

Start Date: 9/15/2007; **Medlin, Dana**; Blacksmithing Metallurgy: A Multifaceted Curriculum and Laboratory Plan; South Dakota School of Mines and Technology; \$150,000; (717887).

Start Date: 9/15/2007; **Min, Manki**; Network-flow Based Optimization Problems In Various Network Environments; South Dakota State University; \$200,000; (729182).

Start Date: 9/1/2007; **Siemens, David**; BHSU Integrative Genomics Transition Scholarship Program; Black Hills State University; \$598,000; (728553).

Start Date: 9/15/2007; **Sundareshwar, Pallaoor**; SGER: An opportunity to study the impact of nutrient pulsing in an oligotrophic forest stream in South Dakota; South Dakota School of Mines and Technology; \$75,000; (745690).

Start Date: 5/1/2007; **Sweeney, Mark**; Where does desert dust originate? Geomorphic and climatic control on the evolution of dust sources in the Mojave Desert, USA.; University of South Dakota Main Campus; \$80,165; (736125).

Start Date: 9/15/2007; **Vestal, Sharon**; Rural Enhancement of Mathematics and Science Teachers; South Dakota State University; \$188,120; (733691).

NIH Awards: The new awards in our region for Bioinformatics and/or Computational Biology from NIH's CRISP database.

Kansas

Start Date: 8/1/2007; **Swint-Kruse, Liskin**; Functional effects of exchanging domains and linkers in transcription regulators; University of Kansas Medical Center; (1R01GM079423-01A1).

Missouri

Start Date: 9/7/2007; **Deng, Hong-Wen**; Genomic Convergence for Female Osteoporosis Risk Genes; University of Missouri - Kansas City; (1P50AR055081-01).

Start Date: 8/3/2007; **Ellsworth, Mary L.**; Microvascular O₂ Delivery: Impact of Erythrocyte-Released ATP; Saint Louis University; (1R33HL089094-01).

Start Date: 9/1/2007; **Han, Xianlin**; Shotgun Lipidomics and Alterations in Sphingolipidomes in Alzheimer's Diseases; Washington University; (1R01AG031675-01).

Start Date: 7/1/2007; **Sun, Jianguo Tony**; Predoctoral Research Training in Biostatistics at the University of Missouri-Columbia; University of Missouri - Cloumbia; (1T32GM077971-01A1).



6. Upcoming Meetings

GPN Meetings

Bioinformatics/Computational Biology Teleconference — First Wednesday of every month at 2:00 p.m. Next: November 7, 2007. [Join here.](#)

GPN Representative Council Teleconference — Fourth Wednesday of every month at 10:00 a.m. Next: November 28, 2007.

GPN Research Advisory Board Teleconference - Second Wednesday of every quarter at 1:00 p.m. Next: December 12, 2007.

GPNgrid Technical Administration - Alternate Fridays at 1:30 p.m. Next: November 2, 2007. [Join here.](#)

Middleware/Grid Teleconference — Alternate Fridays at 1:30 p.m. Next: October 26, 2007. [Join here.](#)

Regional Meetings/Workshops

[Riverbluff Cave Virtual Tour](#) - Gives students a glimpse into one of the oldest caves in North America. November 7, 2007; 10:15 – 11:00 a.m.: Tour for Grades 3-7; 1:15 – 2:00 p.m.: Tour for Grades 9-12

7. Subscription Information

[Join the GPN email list here.](#)

[Join GPN Projects here.](#)

Please send any notices to share with the GPN community to denab@ksu.edu.

Further information can be found at: <http://collaboration.greatplains.net>.

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