Enhancing Networking Expertise Across the Great Plains

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About GPN

- Support research across the Great Plains

- Connect to Internet2 and ESnet

- Professional Development program

- Annual Meeting

- Over 23 university members in 8 states

- Partnerships with Other Organizations in Support of Research & Education

About This Project

- Purpose:
  - Build a long-term, scalable and enduring partnership
  - among small, medium and large institutions of higher education and state and regional networks
  - to improve campus network knowledge, expertise and research cyberinfrastructure
  - through a program of outreach, training and engagement.

- Funded by National Science Foundation
  - Award #1440774 to Kansas State University

About This Project

- Partners: State R&E Networks
  - OneNet (OK)
  - MOREnet (MO)
  - REED Network (SD)
  - Network Nebraska
  - KanREN (KS)

- Others Involved
  - University of Oklahoma
  - University of Chicago/GLOBUS
  - ESnet
  - Internet2

Topics

- Security
- Trust Management & InCommon
- IPv6
- Data Transfer Nodes
- Data Movement Tools for Researchers
- Science DMZ
- Software Defined Networking & OpenFlow
- Network Monitoring & PerfSonar
- Advance Layer 2 Services (AL2S)
- Cyberinfrastructure Planning
- Single Sign On & Identity Management
- Disaster Mitigation

- Open Science Grid & Virtual Organizations
- XSEDE & XSEDE Campus Champion Program
- Operating a Campus Fiber Network
- Tools for Researchers (e.g., Software Carpentry)
- Cloud Services
- Campus Research Computing
- Funding for Cyberinfrastructure
- Communicating with the Campus Research Community
- Participating with EPSCoR in your jurisdiction
- Cyberinfrastructure Planning

Objectives

- **Educate/instruct** campus personnel on technologies as the need for instruction emerges (i.e., at their own pace).

- **Increase implementation** of innovative advanced network technologies across the region.

- Increase the number of campuses with **Cyberinfrastructure Plans**.

- **Build a community of support** and encouragement for the implementation of new technologies that is quick to respond to the needs of individual members and provides ready access to national R&E network expertise.

Methods

- Assessment

- Online (Adobe Connect) Training

- Professional Development Credit

- Teleconferences

- Help with Implementation

- Hands-On Workshops on Innovative Network Technologies

- Outreach to Campuses

What's In It For You

- Improve Your Skills
  - Professional Development Hours

- Improve Your Campus Networking

- Become part of a Community of Support

- Engage Researchers Who Need Assistance

- Improve Your Job Prospects

To Get Involved:

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- Kate Adams - kate@greatplains.net

- James Deaton (OneNet)