



Spring Rep's Conference  
Schedule of Events  
April 11-12, 2006

**Tuesday, April 11, 2006**

8:30am – 9:30am

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*Registration: Alumni Center Lobby (coffee & donuts)*

9:30 AM

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*Opening Session*

10:00 AM

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*Breakout Sessions*

Session 1A: Blogs, RSS, MP3 (Podcasting), Skype, Moodle, VPN's  
Presenter: Charles Perkins

This presentation will be a brief introduction on how to implement these technologies and how they are used at Barton County Community College.

Session 1B: Internet2 and their K-20 Initiative Including an Applications Tour of the Emerging "National Education Grid"  
Presenter: John Matrow

Internet2 is a research-only network among the 207 largest universities tasked with developing the next generation Internet protocols, security, applications, etc. The Internet2 K20 Initiative brings together Internet2 member institutions, primary and secondary schools, colleges and universities, libraries, and museums to get new technologies into the hands of innovators, across all educational sectors in the United States, as quickly and as "connectedly" as possible.

11:00 AM

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*Breakout Sessions*

Session 2A: A National Networking Roadmap (and why it matters to us)  
Presenter: Doug Heacock

There are several national initiatives (e.g., Internet2 and NLR) and trends (e.g., RONS) in education and research networking that is changing the internetworking landscape. This session will describe the major initiatives and organizations, sort through the acronyms and topologies, and explore the significance of what's happening on the national networking scene for KanREN member institutions.

Session 2B: Website Accessibility  
Presenter: Bradley Hook

This presentation will include an introduction to web accessibility concepts and strategies. This will include how to implement a feature rich web application while maintaining a compliant site, and will explain things to look out for if purchasing a web based application.

12:00 PM

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*Lunch*

1:30 PM

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*Breakout Sessions*

Session 3A: LAN Networking Basics  
Presenter: Cort Buffington/Casey Russell

Back to the Basics:

So, what if you don't have time to implement IPv6, and your administrators could care less about Multicast? Many of us are just keeping our heads above water teaching, keeping up with administrative meetings and trying to keep the local LAN alive. This presentation will cover the fundamental concepts of building and maintaining a small to moderate sized local area network. We'll cover the protocols involved, the necessary understandings of switching hardware, and troubleshooting tools. We'll talk about the most common problems, applications, and cable types that will bring your network to its knees. The goal is to help you find problems faster and fix them more permanently.

Session 3B: Dynamic Websites  
Presenter: Liz Rea

Using KanREN's web server, mediawiki, and wordpress to build a dynamic website. Why and how NEKLS did it and what the results have been.

2:30 PM

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*Breakout Sessions*

Session 4A: LAN Routing Basics  
Presenter: Cort Buffington/Casey Russell

Back to the Basics:

The fundamental foundation of most small to moderate educational networks is a switched Local Area Network. Over the last 3-6 years we've transitioned to switches for our LAN's because of the inefficiencies of the dumb hub. We got away from the broadcast storms and collisions that cluttered our traditional (Ethernet Hub based) LANs. But in that time many of us have also seen a tremendous growth in the number of machines on our LANs. At the same time there's been an increase in the number of critical applications that make our LAN critical to our organizations. So how do you know if your LAN is reaching the point where you should start routing traffic around campus? We'll show you how to evaluate when and how you should begin to implement routing on your local LAN.

Session 4B: Kansas Libraries and Schools in OverDrive  
Presenter: Eric Hansen (Kansas State Library)

The State Library of Kansas has gathered more than 50 Kansas libraries, schools and regional library systems to cooperate in the purchase of OverDrive digital audio books and music. This program will discuss the philosophy, nature and structure of the cooperative, and how OverDrive titles will function for library and school users.

3:30 PM

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*Break*

Sponsored by: Cytex Media

4:00 PM

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*Breakout Sessions*

Session 5A: LAN Firewalling Basics  
Presenter: Cort Buffington/Casey Russell

Back to the Basics:

Sonic Wall, Cisco, Symantec, Lnksys; Just what is a firewall anyway? There are dozens of products and brands out there that perform some firewall functions. But getting away from the brands and products, just what should a firewall do for you? What are today's threats that you need to protect your network from? We'll discuss some of the most fundamental requirements of a firewall and how it affects your network's stability. We'll talk about network address translation (NAT) and some of its inherent firewall-like functions. We'll also discuss what NAT doesn't do for you and just what makes a real stateful firewall. The goal is to help you better understand what you should be getting from your firewall device/supplier.

Session 5B: The One Hour Server – Using Open Source to Maximum Benefit  
Presenter: Thatcher Rea

Using the popular and secure OpenBSD Operating System, it is possible to setup an Email Server, Domain Name Services, DHCP, and Web Server in under an hour. Join the KanREN staff as we demonstrate the ease at which new services can be provided to the users of your network, and how to do it using stable, free Open Source Software.

6:30 PM

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*Dinner & Keynote*

9:00 PM

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*Evening LAN Party and Conversation at the Conference Hotel (B1)*

Sponsored by: Cox Communications & Cisco Systems

Wednesday, April 12, 2006

8:30 AM

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*Breakout Sessions*

Session 6A:           Intrusion Detection/Prevention Basics  
Presenter:           Cort Buffington/Casey Russell

Back to the Basics:

IDS stands for Intrusion Detection System, which is the art of detecting inappropriate, incorrect, or anomalous activity. We'll look at the similarities and differences between typical firewall functions and the functions of an IDS. This session will introduce you to the difference between Intrusion Detection and intrusion Prevention. We'll look at some of today's threats and why using an IDS in concert with your firewall can make you a more informed network administrator. The goal is to make you better informed about current IDS capabilities and help you better understand what you should be getting from your IDS device/supplier.

Session 6B:           Photonic Transmission in a Regents Environment  
Presenter:           Dale Hunkele

Ever wonder what it would take to get an optical wide area network built? In this session, I will take you through the trial and tribulations that KanREN has gone through thus far in trying to build an optical backbone for our network. This will include finding vendors, facilities, and equipment. Granted, that most of you institutions won't be building a network nearly this large, but the information is useful no matter the size of your network.

9:30 AM

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*Breakout Sessions*

Session 7A:           Intrusion Detection System Deployment on KU's Campus  
Presenter:           Dave Hull/Jason Tinsley

A presentation on KU's current Intrusion Detection System deployment and their developing plans for the next generation deployment.

Session 7B:           The KanREN/Kan-ed/KanWIN Efficiency Study Report – a closer look  
Presenter:           Doug Heacock

The 2005 Kansas Legislature mandated an efficiency study to compare and contrast the three major state networks, and a report was created to document that study. This session will provide an overview of the study and report, with discussion of the implications for KanREN.

10:30 AM

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*Break*

Sponsored by: Kansas City Audio Visual

11:00 AM

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*Breakout Sessions*

Session 8A: Security: A Pragmatic Approach  
Presenter: Josh Peck

All institutions are concerned about the security of their network and information systems. Some organizations see little impact even after investing large amounts of money. This presentation will focus on common sense tips, techniques, and tools which may be used to yield maximum impact for minimum cost.

Session 8B: ResNet Voodoo: Subscriber vs. Enterprise Networking  
Presenter: Cort Buffington/Brad Fleming

Need fine grained control over your ResNet and its users? Would you like to provide equal access to all users or be able to sell value-added packages without limiting on-campus access? Tired of ResNet users taking down part of the campus by incorrectly connecting devices? In this session, we will illustrate the differences between a broadband subscriber network and the enterprise networks we're all accustomed to, and how to build one.

12:00 PM

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*Lunch*

1:30 PM

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*Breakout Sessions*

Session 9A: Ask the KanREN Board of Directors  
Presenter: Members of the KanREN Board  
Moderator: Doug Heacock

This session will feature members of the KanREN board.

Session 9B: KanREN Video Services  
Presenter: Dale Hunkele

Ever wonder what it would take to get a computer on your network setup to take advantage of the KanREN Click to Meet or Marratech services? In this session, we will take you through the installation, setup and use for each of these desktop collaboration applications.

2:30 PM

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*Breakout Sessions*

Session 10A:           Campus Network Design Considerations  
Presenter:           Richard Becker, Ray Cole, and Keith Neufeld  
Moderator:           Cort Buffington

Larger campuses continue to face new challenges with design and architecture. Smaller campuses are finding themselves increasingly facing the same issues. There are often times many right answers to these complex needs. Come join in on a lively discussion with our panel about some of the most complex and sometimes controversial design issues we are facing today.

- \* Routing in the core vs. distribution
- \* Routers vs. L3 switches and application of each
- \* Routing and subnet scaling issues
- \* VLAN planning and how it relates to IP overlays
- \* Security infrastructure Strategies ( location of ACL/FW/IDS/VPN at border/core/distribution/access)
- \* Routing policies and how they can be used (QoS, PBR, RFP, etc.)

Session 10B:           DISC and their Recent "Wins" with Technology  
Presenter:           Bill Kelly/Dave Timpany

Representatives of the Kansas Division of Information Systems and Communications (DISC) will be on hand to discuss their recent "wins" with technology.

3:30 PM

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*Closing Session*