

**Final Syllabus - February 19, 2002**

<b>Date</b>	<b>Speaker</b>	<b>Topic/ Paper</b>
Jan 15	rek Chris Cox	Introduction Using the Library for Networks Literature Searches
Jan 22	rek	History of Computer Networks Sliding Windows and Congestion Control
<b>Congestion Control</b>		
	rek	<i>"Random Early Detection Gateways for Congestion Avoidance"</i>
Jan 29	Choong-Soo Lee Nagaraj Shirali	<i>"Core Stateless Fair Queuing"</i>
	rek	<i>"Tuning RED for Web Traffic"</i>
Feb 5	Vishal Phirke Frank Poluszny	<i>"Adaptive RED: An Algorithm for Increasing the Robustness of RED's Active Queue Management"</i>
	Matt Hartling Sumit Kumbhar	<i>"The War between Mice and Elephants"</i>
Feb 12	CC students	<i>"An Adaptive Queue Management Method for Congestion Avoidance in TCP/IP Networks"</i>
	rek	<i>"Promoting the Use of End-to-End Congestion Control in the Internet"</i>
<b>Differentiated Services</b>		
Feb 19	Vinod Polavajram	<i>"A Case for Relative Differentiated Services and the Proportional Differentiation Model"</i>
	Todd Flanagan	<i>"Distributed Servers Architecture for Networked Video Services"</i>
<b>Routing</b>		
Feb 26	Darpan Bhuv Nitin Deshpande Roshan John Sanchit Joshi	<i>"Hierarchical Distance-Vector Multicast Routing for the Mbone"</i> <i>"MQ: An Integrated Mechanism for Multimedia Multicasting"</i>

**MPLS**

- Mar 5 V. Krishnamurthy *“Performance Measurements of MPLS Traffic Engineering and QoS”*  
 Prashant Murthy *“A Comparison of MPLS Traffic Engineering Initiatives”*  
 Anuj Sampat

**Mobile and Wireless Networks**

- Mar 12 Hien Nguyen *“Maximum Battery Life Routing to Support Ubiquitous Mobile Computing in Wireless Ad Hoc Networks”*
- Preeti Kothari *“Wireless Andrew: Building a High Speed, Campus-Wide Wireless Data Network”*
- Michael Thurston *“A Performance Comparison of Multi-Hop Wireless Ad Hoc Network Routing Protocols”*

**Internet2 and IPv6**

- Mar 19 Ajay Sharma *“Mobility Support in IPv6”*
- Mading Li *“Internet2 Qbone: Building a Testbed for Differentiated Services”*  
 Yiqua Hu

**Firewalls, IPsec**

- Mar 26 Rajdeep Larha *“A Cryptographic Evaluation of IPsec”*
- James Michaud *“Implementing a Distributed Firewall”*

**Security**

- Apr 2 Christ Boumenot *“Kerberos: An Authentication Service for Open Network Systems”*
- Yuefeng Kang *“A Flexible Model for Resource Management in Virtual Private Networks”*  
 Rigao Huang

**Web Applications – Network Management**

- Apr 9 Xin Qi *“Latency-sensitive hashing for collaborative Web caching”*  
 Yong Yang
- Sarwar Raza *“Implementation and Performance Analysis of SNMP on a TLS/TCP Base”*

- Apr 16 **Final Exam**