Syllabus
September 26, 2006

Date	Speaker	Topic / Paper
September 5	**rek**	Introduction TCP Sliding Windows Congestion Control and Queuing
September 12	**class** **rek**	Computer Networking History TCP Congestion Control ***"Random Early Detection Gateways for Congestion Avoidance"*** by Floyd and Jacobson
September 19	**rek** **rek**	**"*Tuning RED for Web Traffic*"** by Christiansen et al. **"Core-Stateless Fair Queueing: a Scalable Architecture to Approximate Fair Bandwidth Allocations in High Speed Networks"** by Stoica et al.
September 26	**Dan Courcy & Nate Salemme** **Joe Frate & Oleg Rekutin**	***"The War between Mice and Elephants"*** by Guo and Matta ***"Congestion Control for High Bandwidth Delay Product Networks"*** by Katabi et al.
October 3	**Travis Grant & Harshal Pandya** **rek** **Jeff Zhou**	***"Designing DCCP: Congestion Control Without Reliability"*** by Kohler et al. Introduction to 802.11 Wireless Protocols and Wireless Sensor Issues ***"Interference-Aware Fair Rate Control in Wireless Sensor Networks"*** by Rangwala et al.
October 10	**Saurabh Gupta** **Nikki Benecke**	***"ExOr: Opportunistic Multi-Hop Routing for Wireless Networks"*** by Biswas and Morris ***"Idle Sense: An Optimal Access Method for High Throughput and Fairness in Rate Diverse Wireless LANs"*** by Heusse et al.
October 17	**Paul Ruggieri** **Mike Putnam**	***"Application-Based Collision Avoidance in Wireless Sensor Networks"*** by Stathopoulos et al. ***"Exploiting Idle Communication Power to Improve Wireless Network Performance and Energy Efficiency"*** by Guo et al.
October 24	**Dan Courcy** **Travis Grant**	***"XORs in the Air: Practical Wireless Network Coding"*** Katti et al. ***"Performance Enhancement of TFRC in Wireless Ad Hoc Networks"*** by Li et al.
October 31	**Harshal Pandya** **Jeff Zhou &**	***"Spray and Wait: An Efficient Routing Scheme for Intermittenly Connected Mobile Networks"*** by Spyropoulos et al. ***"Defending against Flooding-Based Distributed Denial-***

	Saurabh Gupta	*of-Service Attacks: A Tutorial*" by Chang & *"Distributed Denial of Service Attacks"* by Lau et al.
November 7	Sarah Casey Nikki Benecke	*"Secure Data Communication in Mobile Ad Hoc Networks"* by Papadimitratos and Haas *"DDoS Defense by Offense"* by Walfish et al.
November 14	Joe Frate Nate Salemme	*"Protecting Web Servers from Distributed Denial of Service Attacks"* by Kargl et al. *"Web Tap: Detecting Covert Web Traffic"* by Borders and Prakash
November 28	Oleg Rekutin Paul Ruggieri	*"Sustaining Availability of Web Services under Distributed Denial of Service Attacks"* by Xu and Lee *"TinySec: A Link Layer Security Architecture for Wireless Sensor Networks"* by Karlof et al.
December 5	Mike Putnam Sarah Casey	*"Secure Routing in Wireless Sensor Networks: Attacks and Countermeasures"* by Karlof and Wagner *"Detecting Critical Nodes for MANET Intrusion Detection Systems"* by Karygiannis et al.
December 12		**Final Exam**