



MONDAY, AUGUST 30 TUTORIALS/WORKSHOPS/RECEPTION

9:00-12:30 Tutorial T1: Traffic Modelling 101
at the Hilton Broadway III / IV

13:30-17:00 Tutorial T2: Unwanted Traffic
at the Hilton Broadway III / IV

9:00-17:00 Workshop W1: Future Directions in Network Arch. (FDNA)
at the Hilton Galleria I / II / III

9:00-17:30 Workshop W2: Net. & Sys. Support for Games (NetGames)
at the Hilton Broadway I / II

18:00-20:00: Welcome reception
at the Oregon Historical Society Museum
SW Park & SW Madison - 2 blocks south, 1 block west of the Hilton

19:30-: Student dinner
at the Greek Cusina Restaurant
SW 4th Ave & SW Washington - 4 blocks north, 3 blocks east of the Hilton

**TUESDAY AUGUST 31 SIGCOMM CONFERENCE
at the Hilton Grand Ballroom**

9:00-9:15 Opening Welcome

9:15-10:15 Keynote Speech: SIGCOMM 2004 Award Winner
Simon Lam, UT Austin Back to the Future Part 4: The Internet

11:00-12:30 Session 1: Network geometry and design (Ken Calvert)
A First-Principles Approach to Understanding the Internet's Router-level Topology

Lun Li, David Alderson (CalTech), Walter Willinger (AT&T Labs--Research), John Doyle (CalTech)

Vivaldi: A Decentralized Network Coordinate System

Frank Dabek, Russ Cox, Frans Kaashoek, Robert Morris (MIT)

Routing Design in Operational Networks: A Look from the Inside

David Maltz, Geoff Xie, Jibin Zhan, Hui Zhang (CMU), Gisli Hjalmtysson, Albert Greenberg (AT&T Labs--Research)

14:00-15:30 Session 2: Inference of network properties (Constantinos Dovrolis)

Locating Internet Bottlenecks: Algorithms, Measurements, and Implications

Ningning Hu (CMU), Li Erran Li (Bell Laboratories), Zhuoqing Morley Mao (U. Michigan), Peter Steenkiste (CMU), Jia Wang (AT&T Labs--Research)

An Algebraic Approach to Practical and Scalable Overlay Network Monitoring

Yan Chen (Northwestern University), David Bindel, Hanhee Song, Randy H. Katz (UC Berkeley)

CapProbe: A Simple and Accurate Capacity Estimation Technique
Rohit Kapoor (Qualcomm), Ling-Jyh Chen, Li Lao, Mario Gerla, M. Y. Sanadidi (UCLA)

16:00-17:30 Session 3: Multihoming and overlays (John Byers)

Optimizing Cost and Performance for Multihoming

David K. Goldenberg (Yale), Lili Qiu (Microsoft Research), Haiyong Xie (Yale), Yang Richard Yang (Yale), Yin Zhang (AT&T Labs--Research)

A Comparison of Overlay Routing and Multihoming Route Control

Aditya Akella, Jeffrey Pang (CMU), Bruce Maggs (CMU/Akamai), Srinivasan Seshan (CMU), Anees Shaikh (IBM Research)

The Feasibility of Supporting Large-Scale Live Streaming Applications with Dynamic Application End-Points

Kunwadee Sripanidkulchai, Aditya Ganjam, Bruce Maggs (CMU/Akamai), Hui Zhang (CMU)

17:40-18:40 SIGCOMM Business Meeting - open to all
at the Hilton Grand Ballroom

**WEDNESDAY, SEPTEMBER 1 SIGCOMM CONFERENCE
at the Hilton Grand Ballroom**

9:00-11:00 Session 4: Wireless and delay-tolerant networks (Venkat Padmanabhan)

Link-level Measurements from an 802.11b Mesh Network

Daniel Aguayo, John Bicket, Sanjit Biswas (MIT), Glenn Judd (CMU), Robert Morris (MIT)

Comparison of Routing Metrics for Static Multi-Hop Wireless Networks

Richard Draves, Jitendra Padhye, Brian Zill (Microsoft Research)

Routing in a Delay Tolerant Network

Sushant Jain (U. Washington), Kevin Fall (Intel Research), Rabin Patra (UC Berkeley)

Turning the Postal System into a Generic Digital Communication Mechanism (position paper)

Randolph Y. Wang, Sumeet Sobti, Nitin Garg, Elisha Ziskind, Junwen Lai (Princeton), Arvind Krishnamurthy (Yale)



**WEDNESDAY SEPTEMBER 1 (con't) SIGCOMM CONFERENCE
at the Hilton Grand Ballroom**

11:00-12:30 Poster session

at the Hilton Galleria I / II / III and Foyer at Ballroom level

14:00-15:30 Session 5: Secure networks (Paul Barford)

A System for Authenticated Policy-Compliant Routing

Barath Raghavan, Alex C. Snoeren (UCSD)

SPV: Secure Path Vector Routing for Securing BGP

Yih-Chun Hu (UC Berkeley), Adrian Perrig, Marvin Sirbu (CMU)

Shield: Vulnerability-Driven Network Filters for Preventing Known Vulnerability Exploits

Helen J. Wang, Chuanxiong Guo, Daniel R. Simon, Alf Zugenmaier (Microsoft Research)

16:00-17:30 Session 6: Network troubleshooting (Nina Taft)

Locating Internet Routing Instabilities

Anja Feldmann, Olaf Maennel (TU Muenchen), Z. Morley Mao (U. Michigan), Arthur Berger (MIT/Akamai), Bruce Maggs (CMU/Akamai)

Diagnosing Network-Wide Traffic Anomalies

Anukool Lakhina, Mark Crovella (Boston University), Christophe Diot (Intel Research)

Network Sensitivity to Hot-Potato Disruptions

Renata Teixeira (UCSD), Aman Shaikh (AT&T Labs--Research), Tim Griffin (Intel Research), Geoffrey Voelker (UCSD)

18:00- Social event - Banquet

at the Tiffany Center

SW 14th & SW Morrison - 2 blocks north, 9 blocks west of the Hilton

**THURSDAY, SEPTEMBER 2 SIGCOMM CONFERENCE
at the Hilton Grand Ballroom**

9:00-10:30 Session 7: Router design (Ion Stoica)

Building a better NetFlow

Cristian Estan (UCSD), Ken Keys, David Moore (USCD/CAIDA), George Varghese (UCSD)

Work-Conserving Distributed Schedulers for Terabit Routers

Prashanth Pappu, Jonathan Turner, Ken Wong (Washington University)

Exact GPS Simulation with Logarithmic Complexity, and its Application to an Optimally Fair Scheduler

Paolo Valente (U. Pisa)

11:00-12:30 Session 8: Congestion control (Alex Snoeren)

Sizing Router Buffers

Guido Appenzeller, Isaac Keslassy, Nick McKeown (Stanford)

A Wavelet-Based Approach to Detect Shared Congestion

Min Sik Kim, Taekhyun Kim, YongJune Shin, Simon S. Lam, Edward J. Powers (UT Austin)

Delayed Stability and Performance of Distributed Congestion Control

Yueping Zhang, Seong-Ryong Kang, Dmitri Loguinov (Texas A&M)

14:00-15:30 Session 9: DNS and naming (Srinu Seshan)

Impact of Configuration Errors on DNS Robustness

Vasileios Pappas, Zhiguo Xu, Songwu Lu (UCLA), Daniel Massey (Colorado State), Andreas Terzis (Johns Hopkins), Lixia Zhang (UCLA)

The Design and Implementation of a Next Generation Name Service for the Internet

Venugopalan Ramasubramanian, Emin Gun Sirer (Cornell)

A Layered Naming Architecture for the Internet (position paper)

Hari Balakrishnan (MIT), Karthik Lakshminarayanan (UC Berkeley), Sylvia Ratnasamy (Intel Research), Scott Shenker (ICIR & UC Berkeley), Ion Stoica (UC Berkeley), Michael Walfish (MIT)

16:00-17:30 Session 10: Distributed information systems (Antony Rowstron)

Mercury: Supporting Scalable Multi-Attribute Range Queries

Ashwin R. Bharambe, Mukesh Agrawal, Srinivasan Seshan (CMU)

Modeling and Performance Analysis of BitTorrent-Like Peer-to-Peer Networks

Dongyu Qiu, R. Srikant (U. Illinois at Urbana-Champaign)

A Scalable Distributed Information Management System

Praveen Yalagandula, Mike Dahlin (UT Austin)

17:30-19:00 Outrageous Opinions (chair: Michalis Faloutsos)

at the Hilton Grand Ballroom

FRIDAY, SEPTEMBER 3 TUTORIALS/WORKSHOPS

9:00-17:00 Tutorial T3: Arch. Consid. for Unusual and Challenged Nets
at the Hilton Galleria III

9:00-17:00 Workshop W3: Practice and Theory of Incentives and Game Theory in Networked Systems (PINS)
at the Hilton Broadway I / II / III

9:00-17:30 Workshop W4: Network Troubleshooting (NetTs)
at the Hilton Galleria I / II