



Gigabit Networking Workshop GBN'98 - Advance Program

29 March 1998 - San Francisco, CA

Sponsored by the IEEE ComSoc Technical Committee on Gigabit Networking
in conjunction with INFOCOM'98

Registration, Continental Breakfast --- 8:00 - 8:30

Welcome, Introduction, and Agenda --- 8:30 - 9:00

Fast Routers, and how they affect GBNs --- 9:00-10:00

Terabit Routers and Switches

Craig Partridge, BBN Technologies

The Pluris Massively Parallel Router (MPR)

Vadim Antonov, David Bernstein, **Sam Halabi**, Pluris Inc.

Routers with Input Queueing, Crossbars and QoS (invited)

Shang-Tse Chuang, Ashish Goel, **Nick McKeown** and Balaji Prabhakar, Stanford University

Fast IP address lookups (invited)

Jon Turner, Washington University in St. Louis

PANEL Session: Performance of Active Nets --- 10:30 - 11:30

Moderator: **James Sterbenz**, GTE Labs

Samrat Bhattacharjee, Georgia Tech.

Craig Partridge, BBN

Scott Alexander, Univ. Pennsylvania

Break --- 10:00 - 10:30

Systems Issues --- 11:30 - 12:30

Host-based Routing Using Peer DMA

Joe Touch, **Anne Hutton**, and Simon Walton, USC/ISI

Testing TCP/IP Perf. Optimizations Using NASA's ACTS Satellite

David R. Beering, Infinite Global Infrastructures, LLC

Copy avoidance in networked file systems

Jose' Carlos Brustoloni, Bell Labs, Lucent Technologies

Open discussion on ongoing systems issues in high-performance networking

Lunch --- 12:30 - 1:30

Optical Networks: Architectural Issues --- 1:30 - 2:00

An Architecture for Broadband Internet Services over a WDM-based Optical Access Network

Eytan Modiano, Eric Swanson, MIT Lincoln Laboratory

Service Independent Access Points (SIAP) to Optical Wide Area Networks

Joseph B. Evans, Victor S. Frost, Gary J. Minden, University of Kansas

Optical Networks: Switching Issues --- 2:00 - 3:00

Virtual Circuit Provisioning in WDM Networks

Bo Li, Yang Qin, Hong Kong University of Science and Technology

Optical Burst Switching - A Novel Paradigm for Gigabit WDM Optical Networks

Chunming Qiao, Mounsik Yoo, Xijun Zhang, SUNY at Buffalo

Smart WDM IP Flow Technology (SWIFT)

Joe Touch, **Joe Bannister**, Alan Willner, USC/ISI

Terabit Burst Switching (invited)

Jon Turner, Washington University in St. Louis

Break --- 3:00 - 3:30

Optical Networks: Regional efforts ---3:30 - 4:30

Packet Optical Networks for High Speed TCP-IP Backbone

F. Callegati, **M. Casoni**, DEIS University of Bologna

WDM Optical Packet Networking

C. Guillemot and F. Clerot, France Telecom CNET/DTD/RTO

CA*net 3 - Canada's National Optical Internet

Bill St. Arnaud, CANARIE

Open discussion on regional optical networking

Open Discussion --- 4:30 - 5:00

TCGN Open Business Meeting --- 5:00 - 6:00

TCGN web page is <http://www.ccre.wustl.edu/pub/ieee-tcgn>

- Workshop wrap-up
- TCGN business and issues
- What is Gigabit networking, and what should our role be?

Dinner, BOFs (informal) --- 7:00 -

Continued discussions over dinner - meet in the lobby at 7:00 pm.