

IEEE OPENARCH 2001

Final Program

Thursday 26 April

7:30 – 9:00 PM **IEEE OPENARCH 2001 Welcome Reception**, *Hilton Anchorage Hotel*

Friday 27 April

8:45 – 9:00 AM **Opening Address**
Raj Yavatkar, *Intel Corp.*

9:00 – 10:00 AM **Keynote Address**
Chair: Raj Yavatkar, *Intel Corp.*
Jonathan S. Turner, *Washington University in Saint Louis*

10:00 – 10:30 AM **Coffee Break**

10:30 – 12:00 PM **Session: Programmable Router Architectures**
Chair: Andrew T. Campbell, *Columbia University*
VERA: An Extensible Router Architecture
Scott Karlin and Larry Peterson, *Princeton University*
An Access Control Architecture for Programmable Routers
Jun Gao and Peter Steenkiste, *Carnegie Mellon University*
Dynamic Hardware Plugins (DHP): Exploiting Reconfigurable Hardware
for High-Performance Programmable Routers
David E. Taylor, Jonathan S. Turner, and John W. Lockwood,
Washington University in Saint Louis

12:00 – 1:30 PM **Lunch**

1:30 – 3:00 PM **Panel: "Network Architectures in the Optical Age"**
Organizer: Aurel A. Lazar, *Xbind Inc. and Columbia University*
Panelists: Dirceu Cavendish, *NEC Labs Princeton*
Gunnar Karlsson, *KTH Stockholm*
Dimitrios E. Pendarakis, *Tellium*
Dan Rubenstein, *Columbia University*



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- 3:00 – 3:30 PM **Coffee Break**
- 3:30 – 4:30 PM **Session: Active Multicast Services**
Chair: David Hutchison, *Lancaster University*
- Building Multicast Services from Unicast Forwarding and Ephemeral State
Ken Calvert, James Griffioen, and Su Wen, *University of Kentucky*
- Active Reliable Multicast on CANEs: A Case Study
Matt Sanders and Ken Calvert, *University of Kentucky*;
Mark Keaton, *TASC, Inc.*; Samrat Bhattacharjee, *University of Maryland*;
Stephen Zabele, *TASC, Inc.*; Ellen Zegura, *Georgia Institute of Technology*
- 4:30 – 5:30 PM **Session: Security Issues in Active Networks**
Chair: Peter Steenkiste, *Carnegie Mellon University*
- Strong Security in Active Networks
Sandra Murphy, Edward Lewis, Robert Watson, and Richard Yee,
NAI Labs at Network Associates; Ralph Puga, *MyCIO*
- Securing Distributed Adaptation
Jun Li, Mark Yarvis, and Peter Reiher, *University of California, Los Angeles*
- 7:00 PM **Social Event: Cocktails and Dinner at the 4th Avenue Theater**



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Saturday April 28

- 9:00 – 10:00 AM **Keynote Address**
Chair: David Wetherall, *Asta Networks*
Jeff Lawrence, *CTO, Network Communications Group, Intel*
- 10:00 – 10:30 AM **Coffee Break**
- 10:30 – 12:00 PM **Session: Programmable Networks**
Chair: John Vicente, *Intel Corp.*

New Models and Algorithms for Programmable Networks
Dan Raz and Yuval Shavitt, *Bell Laboratories, Lucent Technologies*

Active Networking On A Programmable Network Platform
Phil Yonghui Wang, Tal Lavian, and Robert Duncan, *Nortel*; Robert Jaeger,
University of Maryland

Regatta: A Framework for Automated Supervision of Network Clouds
Vijak Sethaput, *Harvard University*; Adnan Onart and Franco Travostino,
Nortel Networks
- 12:00 – 1:00 PM **Lunch**
- 1:00 – 2:30 PM **Panel: "Peer-to-Peer Overlays: Active Network Prospect
or Challenger?"**
Organizer: David Wetherall, *Asta Networks and University of Washington*
Panelists: Larry Peterson, *Princeton University*
Joe Touch, *USC ISI*
Bob Braden, *USC ISI*
- 2:30 – 3:00 PM **Conference Invited Talk**
Chair: Andrew T. Campbell, *Columbia University*

Reflective Middleware
Geoff Coulson, *Lancaster University and Columbia University*
- 3:00 – 3:30 PM **Coffee Break**



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3:30 – 5:00 PM

Session: Constructing Services

Chair: Franco Travostino, *Nortel Networks*

Constructing End-to-End Paths for Playing Media Objects

Larry Peterson, Akihiro Naka, and Andy Bavier, *Princeton University*

Providing Applications with Mobile Agent Technology

Paulo Marques, Paulo Simoes, Luis Silva, and

Fernando Boavida Joao Gabriel, *University of Coimbra*

Implementing Configurable Signalling in the MULTE-ORB

Tom Kristensen, Ingvild Berlin Kalleberg, and Thomas Plagemann,
University of Oslo

5:00 – 6:00 PM

Short Paper Session: Ghosts of the Net

Organizer and Chair: Christian Tchudin, *Uppsala University*

Active Network Management and Kolmogorov Complexity

Stephen F. Bush and Amit Kulkarni, *General Electric Corporate
Research and Development*

An Immune Model for Intrusion Detection using Mobile Agents

Noria Foukia, Karima Boudaoud, Jarle G. Hulaas, and Juergen Harms,
University of Geneva

Self-Organizing Route Aggregation for Active Ad-hoc Networks

Richard Gold, *GMD Fokus*

ALM and ProgNets for v4-to-v6 Multicast Transition

Paul Smith, Laurent Mathy, Roberto Canonico, and David Hutchison,
Lancaster University

Distributed Network Metering Model: Overview

Marcelo Pias and Steve Wilbur, *University College London*

Sphere: A Binding Model and Middleware for Routing Protocols

Vassilis D. Stachtos, Michael E. Kounavis, and Andrew T. Campbell,
Columbia University

