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#### **CALL FOR PARTICIPATION**

# 19TH ACM SYMPOSIUM ON OPERATING SYSTEMS PRINCIPLES

(SOSP-19)

October 19-22, 2003

The Sagamore, Bolton Landing (Lake George), New York Conference web site: http://www.cs.rochester.edu/sosp2003/ Sponsored by ACM SIGOPS

The biannual ACM Symposium on Operating Systems Principles is the world's premier forum for researchers, developers, programmers, vendors and teachers of operating system technology. Academic and industrial participants present research and experience papers that cover the full range of theory and practice.

SOSP-19 continues this tradition with a broad set of high quality, relevant, interesting papers, covering a wide range of topics, platforms, and environments. Because the Symposium attracts attendees with diverse backgrounds, the program includes papers not only in the "traditional core" of the OS field, but also in the interface to these areas and others.

There will be a poster session and a work-in-progress session; in each case presenters will be chosen from brief proposals submitted to the program committee. Details are available on the web site.

In addition to the "regular" SOSP presentations, we will also host the presentation of the annual ACM/SIGOPS Mark Weiser award (nominations are due September 1).

A scholarship program will be available to encourage student attendance. In addition, for the first time ever, SOSP will host the SIGOPS division of the ACM Student Research Competition (www.acm.org/src/). Additional details can be found on the conference web site.







# LOCATION and REGISTRATION

The Symposium will be held at The Sagamore resort located on Lake George in upstate New York. The fall foliage should be at its best, and the weather exceptional for enjoying the mountain air. The resort features exceptional scenery, an 18 hole golf course, and easy access to Lake George, Bolton Landing and the wider Adirondack region.

Registration information is available at the conference web site.

#### **IMPORTANT DATES**

Student Scholarship Application Deadline
Early Registration Deadline
Poster and Student Research Submission Deadline
Work In Progress Submission Deadline

August 29, 2003 September 10, 2003 September 22, 2003 September 22, 2003



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# Monday, October 20th

## Safely Executing Untrusted Code

"Upgrading Transport Protocols using Mobile Code". Patel, Whitaker, Wetherall, Lepreau, Stack

"Model-Carrying Code: A Practical Approach for Safe Execution of Untrusted Applications". Sekar, Venkatakrishnan, Basu, Bhatkar, DuVarney

#### File and Storage Systems

"GFS: A Fault-Tolerant File System for Large Distributed Applications". Ghemawat, Gobioff, Leung

"Preserving Peer Replicas By Rate-Limited Sampled Voting". Maniatis, Roussopoulos, Giuli, Rosenthal, Baker, Muliadi "Decentralized User Authentication in a Global File System". Kaminsky, Savvides, Mazieres, Kaashoek

#### Probing the Black Box

"Performance Debugging for Distributed Systems of Black Boxes". Aguilera, Mogul, Wiener, Reynolds, Muthitacharoen

"Transforming Policies into Mechanisms with Infokernel". Arpaci-Dusseau, Arpaci-Dusseau, Burnett, Denehy, Engle, Gunawi, Nugent, Popovici "User-level Internet Path Diagnosis". Mahajan, Spring, Wetherall, Anderson

#### Poster session and reception

Student research presentations

Banquet and presentation of the SIGOPS Mark Weiser award

# **Tuesday, October 21st**

#### Scheduling and Resource Allocation

"Samsara: Honor among thieves in peer-to-peer storage". Cox, Noble

"SHARP: An Architecture for Secure Resource Peering". Fu, Chase, Chun, Schwab, Vahdat

"Stochastic Real-Time Scheduling and Dynamic Voltage Scaling for Low-Power Mobile Multimedia Systems". Yuan, Nahrstedt

#### Virtual Machine Monitors

"Xen and the Art of Virtualization". Dragovic, Fraser, Hand, Harris, Ho, Pratt, Warfield, Barham, Neugebauer

"Implementing an Untrusted Operating System on Trusted Hardware". Lie, Thekkath, Horowitz

"Terra: A Virtual-Machine Based Platform for Trusted Computing". Garfinkel, Pfaff, Chow, Rosenblum, Boneh

# **Making Operating Systems More Robust**

"Improving the Reliability of Commodity Operating Systems". Swift, Bershad, Levy

"Backtracking Intrusions". Chen, King

"RacerX: effective, static detection of race conditions and deadlocks". Engler, Ashcraft

#### Revising Old Friends

"Separating Agreement from Execution for Byzantine Fault Tolerant Services". Yin, Martin, Venkataramani, Alvisi, Dahlin

"Capriccio: Scalable Threads for Internet Services". von Behren, Condit, Zhou, Necula, Brewer

#### Work in Progress Session

# Wednesday, October 22nd

## Invited Lecture: Alfred Spector, IBM Research

#### Overlay and Peer-to-Peer Networks

"Beyond the Tree: High Bandwidth Data Dissemination Using an Overlay Mesh". Kostic, Rodriguez, Albrecht, Vahdat

"SplitStream: High-bandwidth content distribution in cooperative environments". Castro, Druschel, Kermarrec, Nandi, Rowstron, Singh

"Measurement, Modeling, and Analysis of a Peer-to-Peer File-Sharing Workload". Gummadi, Dunn, Saroiu, Gribble, Levy, Zahorjan

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