



IEEE / NASA MSST2005

Twenty-Second IEEE / Thirteenth NASA Goddard
Conference on Mass Storage Systems and Technologies



Emerging Trends in Scalable Storage

Call for Papers

April 11-14, 2005
Monterey Conference Center
and the Marriott Hotel
Monterey, California, USA

Conference Chair:
Merritt Jones, MITRE

Program Committee Chair:
Jim Hughes, StorageTek

Program Committee:
Ahmed Amer, University of Pittsburgh
Curtis Anderson, Mendocino Software
Jean Jacques Bedet, Science Systems and Applications
Greg Bishop, AOL
Randal Burns, Johns Hopkins University
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Ann Kerr, Int'l Chair, MSSTC
Ben Kobler, NASA Goddard Space Flight Center
Steve Louis, LLNL
Ethan Miller, University of California, Santa Cruz
Reagan Moore, SDSC
Mike Mott, Boeing
Matthew O'Keefe, Red Hat
Bernie O'Lear, NCAR, retired
Paul Rutherford, ADIC
Tom Ruwart, University of Minnesota
Julian Satran, IBM Haifa Research Laboratory, Israel
Gary Sobol, StorageTek, retired
Rodney Van Meter, Keio University, Japan
Dick Watson, LLNL

Tutorial Chair:
Jack Cole, U.S. Army Research Laboratory

Vendor Expo Chair:
Gary Sobol, StorageTek, retired

Keynote Chair:
Tom Ruwart, University of Minnesota

Publications Chair:
Curtis Anderson, Mendocino Software

Publicity Chairs:
Jack Cole, U.S. Army Research Laboratory
Sam Coleman, LLNL, retired

Calendar:

October 4, 2004	Submissions Due
November 10, 2004	Notifications Mailed
January 3, 2005	Registration Packets Sent
January 10, 2005	Full Length Papers Due
February 7, 2005	Final Papers Due
April 11, 2005	Tutorials
April 12-14, 2005	Conference

Several factors have recently converged to make the hardware portion of petabyte-scale (and beyond) data storage systems relatively inexpensive. At the same time, we face a significant lag in the ability of the software systems to manage and exploit potentially-scalable hardware systems. Many file and storage management software systems in use today were designed for legacy hardware and face significant difficulties scaling to meet today's requirements.

By focusing on scalable hardware and software, this conference will highlight the potential directions of large-scale storage systems over the next few years. Contributors are invited to describe efforts that go beyond the constraints imposed by legacy file system architectures, file access protocols, storage management methods and techniques, and application interfaces.

Topics of interest: Building scalable, enterprise-class systems using commodity storage: risks, rewards, and economic realities; emerging trends in data security and content protection; device, storage, data, information, and systems management; high performance indexing, mining, metadata, and retrieval systems; and object-based storage and file systems.

How to Participate

We encourage participation by individuals and organizations with research or practical experience, including government and commercial users, universities, research laboratories, and early adopters. We invite submissions of technical papers, tutorial proposals, and vendor briefings. Send submissions electronically, in PDF format, to **Jim Hughes (James_Hughes@StorageTek.com)**. Include submission title, author name(s), organization, address, telephone number, fax number, e-mail address, and a brief description of how your contribution relates to the theme of this conference. Also designate a primary contact person, phone number, and e-mail address. **Submissions are due October 4, 2004.** We will notify authors of accepted papers by email November 10, 2004.

Technical Papers: Submit 4-5 page extended abstracts. If accepted, full-length papers will be due January 10, 2005. Final, camera-ready papers, incorporating reviewer comments, must be submitted, in PDF format and conform to formatting standards described in the Author's Kit, no later than February 7, 2005.

Tutorial Proposals: A highlight of the conference will be tutorial sessions April 11, 2005. Submit outlines of half- or full-day tutorials, with material to be covered and a biography of the proposed tutorial presenter.

Vendor Briefings: We will provide a block of time during the conference for vendors to present information addressing the conference theme. Submit a one-page abstract by October 4, 2004.

Vendor Expo: Space for vendor product exhibits will be assigned in the order reservations are received. Space is limited. Vendor interoperability demonstrations are encouraged. To register and to discuss facilities and cost, contact the Vendor Expo Chair: **Gary Sobol (GZSobol@aol.com)**.

Work in Progress: A special session will feature presentations of late-breaking research and developments. Submit one-page descriptions (PDF format) to **Ethan Miller (elm@cs.ucsc.edu)** by March 7, 2005. We will notify presenters by March 14, 2005. "Work in Progress" descriptions will be listed in the schedule and presentations will be posted on the conference Web site.

Extemporaneous Session: An extemporaneous session will provide a forum for short presentations of last-minute thoughts and ideas. Presenters will sign up for speaking slots during the conference.

<http://StorageConference.org>

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