

DLS Seminar Announcement

By: Fran Berman
Director, San Diego Supercomputer Center
University of California, San Diego
Date: Wednesday, January 23, 2008
Time: 2:00pm-3:00pm
Location: **Klaus 1116 West**
For more information please contact Dr. David Bader;
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Snacks will be provided before the talk.

100 Years of Digital Data

Abstract:

The Information Age has brought with it a deluge of digital data. Current estimates are that in 2006, 161 exabytes (10^{18} bytes) of digital data were created from cell phones, computers, iPods, DVDs, sensors, satellites, scientific instruments, and other sources, providing a foundation for our digital world. Migrating digital content through new generations of storage media, making sense of its content, and ensuring that needed information is accessible now and for the foreseeable future constitute some of the most critical challenges of the Information Age.

The San Diego Supercomputer Center (SDSC) is a national Center leading the development and deployment of a comprehensive infrastructure for managing, storing, preserving, and using digital data. Leveraging ongoing collaborations with the research community (National Science Foundation, Department of Energy, etc.), data preservation and archival communities (Library of Congress, National Archives and Records Administration) and other partners, SDSC is providing innovative leadership in the emerging area of Data Cyberinfrastructure. In this talk, SDSC Director Fran Berman discusses SDSC's approach to building and deploying data-oriented computational and data cyberinfrastructure, and describes the next generation of challenges and opportunities for the data that drives the Information Age.

Bio:

Dr. Francine Berman is a pioneer in Grid Computing and an international leader in Cyberinfrastructure. She holds the High Performance Computing Endowed Chair in UCSD's Computer Science and Engineering Department. Since 2001, Dr. Berman has served as Director of the San Diego Supercomputer Center (SDSC) where she leads a staff of 400 interdisciplinary scientists, engineers, and technologists in the innovation, development, and provision of computational and information infrastructure. Dr. Berman is one of the two founding Principle Investigators of the National Science Foundation's TeraGrid project (providing national Grid infrastructure), and also directed the National Partnership for Advanced Computational Infrastructure (NPACI), a consortium of 41 research groups, institutions, and university

partners with the goal of building national infrastructure to support research and education in science and engineering. Dr. Berman is currently co-chairing an international Blue Ribbon Task Force on Sustainable Digital Preservation and Access. For her accomplishments, leadership, and vision, Dr. Berman was recognized in 2004 as one of the top women in technology by BusinessWeek, as one of the top technologists by IEEE Spectrum, and most recently as a leader in science and technology by Newsweek.

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