

SC2004

Bridging Communities

Call For Participation

SC2004

David L. Lawrence Convention Center
Pittsburgh, Pennsylvania

Conference Dates

November 6-12

Exhibition Dates

November 8-11

General Conference Information

www.sc-conference.org/sc2004

Submission Information

www.sc-conference.org/sc2004/submissions

Exhibitor Information

www.sc-conference.org/sc2004/exhibits

Sponsors

IEEE Computer Society
ACM SIGARCH

Dates to Remember

March 29, 2004

Website for submissions opens

April 19, 2004

Deadline for Gordon Bell Prize nominations

Submission deadline for:

Tutorials

Technical Papers

Panels

SC Global categories (Showcase, BOFs, Panels, Papers)

Research Exhibits space and networking requirements

Notice of intent to participate in the StorCloud Challenge

May 24, 2004

Applications for Education Program due

Applications for HPC Software Challenge due

June 28, 2004

Notification of conditional acceptance for Tutorials

Notification of conditional acceptance for Technical Papers

Notification of conditional acceptance for all SC Global categories

July 26, 2004

Final version of Technical Papers due to confirm acceptance

Submission deadline for Poster and Research Exhibit abstracts
Submission deadline for Birds-of-a-Feather (BOFs) sessions
Note: BOFs that wish to include participation from remote Access Grid sites
must submit by the SC Global deadline of April 19, 2004.

On-line registration for SCinet network connection opens

July 31, 2004

Submission deadline for Seymour Cray Computer Science and Engineering Award
Submission deadline for Sidney Fernbach Memorial Award
Full proposals due for the StorCloud Challenge

August 2, 2004

On-line registration opens
Submission deadline for full proposals for HPC Software Challenge

September 7, 2004

Notification of acceptance for Posters
Submission deadline for Exhibitor Forum
Application deadline for SC Global Satellite Sites
Application deadline for Student Volunteers

September 23, 2004

Deadline for final version of handouts for Tutorials

October 8, 2004

Deadline for certification of all SC Global Satellite Sites
Notification of acceptance for Exhibitor Forum

SC2004 Conference Dates – November 6-12, 2004

November 6-9, 2004 Education Program in session
November 7-8, 2004 Tutorial Program in session
November 8, 2004 Opening Gala Reception in Exhibit Hall
November 8-11, 2004 Exhibits open
November 9-11, 2004 SC Global events
November 9-12, 2004 Technical Program presentations

About SC2004

SC2004 is the premier international conference on high performance computing, networking and storage. Founded in 1988, this conference series has grown to now include scientists, researchers, software developers, policy makers, corporate managers, CIOs and IT administrators from universities, industry and government. Attendees become immersed in the latest state-of-the-field developments in technology, applications, vendor products, research results, national policy and national/international initiatives. SC2004 is the one place attendees can see tomorrow's technology being used to solve world-class challenge problems today.

The SC2004 theme, *Bridging Communities*, ties the program components together and demonstrates how high performance computing, networking and storage touch all scientific disciplines, promote interdisciplinary projects, affect the educational process through the use of computers in modeling and simulation in the classroom, and solve heretofore unsolvable problems in biotechnology, weather research, astronomy, drug research, wearable sensors and many other applications. These technologies provide new ways to solve existing problems in seismic processing, crash simulation, and many other application areas. SC2004 provides attendees the opportunity to speak with industry and academic research leaders through the technical program, industry exhibits, research exhibits and Birds-of-a-Feather sessions. Conference participants will interact with communities not resident at the Pittsburgh conference

site through leading-edge collaboration environments made available by SC Global. New this year will be the StorCloud initiative that incorporates the storage community as an integral element of the conference. As before, the Education Program will bring K-16 teachers and faculty to the conference and provide them the tools and expertise to incorporate modeling and simulation into their classroom.

SC2004 will be the high performance computing and networking event of the year. We look forward to your participation!

The Program

Keynote and State-of-the Field Talks

The kickoff for SC2004 will be the keynote address given by an internationally recognized speaker in high performance computing, networking and storage applications. The keynote will set the stage for the conference to follow. There will be invited plenary state-of-the-field talks that provide insights into new advances in the use of high performance computing, networking and storage in established as well as new communities. This year, special emphasis will be placed on present and future high-end computing challenges from the perspective of government, industry, academia and end users. From these sessions attendees will be exposed to the current state-of-the-art as well as future directions in key areas.

Tutorials

The Tutorials Program is a key element of the SC conference series and a major reason many people attend the conference. Tutorials provide attendees with opportunities to learn from, and interact with, internationally recognized experts on topics related to high performance computing, networking and storage, ranging across technological trends, specific products, theory and practice. Attendees must register separately for tutorials, but a One- or Two-Day Tutorial Passport will give participants the ability to move freely among tutorials offered in parallel.

Proposals for tutorials are solicited, ranging from introductory to advanced levels, including (but certainly not limited to) topics in high performance system architectures and performance analysis; clusters and distributed system construction, management and usage; high performance I/O, storage and networking; grid applications, fault tolerance and recovery-oriented computing; algorithms; visualization; collaboration technologies; and application-specific topics. Tutorials will be chosen competitively by a distinguished panel of experts and may be proposed for either a full day (six hours) or a half day (three hours).

Details: www.sc-conference.org/sc2004/tutorials.html

Questions: tutorials04@sc-conference.org

Education Program

The theme of this year's education program is "A K-16 Comprehensive Educational Agenda for High Performance Computing." The program will focus on undergraduate faculty and K-12 teachers creating and using local computational science "infrastructures" at their schools and institutions.

In a practice-oriented workshop format, participants will study how to apply high performance computing tools and resources across the curriculum in their specific teaching situations and/or research interests, as well as how to integrate modeling and visualization techniques into their classroom instruction. Computational scientists will support participants as they identify

appropriate tools for the subjects and curricula they teach and the instructional strategies they use. Special emphasis will be given to using high performance computing to promote collaborative learning strategies.

The program will include reviewing existing materials as well as developing new curriculum modules appropriate for classroom instruction. The resulting materials and instructional application will be published on the web for use by other educators. Finally, a follow-up year-long program of workshops, mentoring and resource support will be available to assist teachers as they apply these new ideas in practice.

All teachers working with kindergarten through undergraduate students interested in the potentials, applications, and implementations of high performance computing are encouraged to apply for the program. While no previous experience with high performance computing is necessary some successful uses of classroom computing will be helpful, as will a keen interest in maximizing students' learning achievements using the latest ideas to apply computing technologies to education. Visit the web site below in January 2004 for instructions on how to apply.

Scientists and educators interested in participating as content experts and mentors to these teachers and college educators are encouraged to contact the Education Committee at the email address below.

Details: www.sc-conference.org/sc2004/education.html

Questions: education04@sc-conference.org

Technical Papers

The Technical Papers program is a highlight of the conference and provides an outstanding forum for disseminating innovative and important advances in high performance computing, networking and storage. We invite original papers reporting experimental or theoretical results, novel designs, case studies, industry applications and trend-setting ideas. Papers should be of a quality that will set the standard in the field and bring together the latest advances in technology, science, research, applications and education. For SC2004, we are interested in a broad cross-section of work in high performance computing, advanced networking, innovative storage solutions, systems engineering and grid technologies. This includes information technology infrastructure at both micro and macro scales, infrastructure-enabled applications and infrastructure-intensive, interactive and collaborative applications. We strongly encourage submissions from new areas of impact and are especially seeking multidisciplinary papers that support the conference theme, *Bridging Communities*. Excellence and timeliness of the ideas will be the predominant acceptance criteria. Awards will be given for Best Technical Paper and Best Student Paper.

Details: www.sc-conference.org/sc2004/papers.html

Questions: papers04@sc-conference.org

Workshops

The SC2004 program will include a set of independently planned workshops to offer more interaction and in-depth discussion of timely topics than is possible in the shorter, more traditional technical sessions. The technical program committee will choose a set of workshops to complement the overall technical program. To suggest a workshop for consideration, please send email as soon as possible to the address below with the topic and proposed organization. Workshops may be proposed for either a full day (six hours) or a half day (three hours).

Details: www.sc-conference.org/sc2004/workshops.html
Questions: workshops04@sc-conference.org

Panels

SC2004 will include a number of panels for presentation and discussion of controversial topics from a number of diverse points of view, with audience participation, on timely topics. Historically, SC panels have engendered lively discussion and even passionate debate. Panels, as much or more than any other SC conference element, foster a free clash of ideas in a spirit of collegiality. Thus, panel submissions are being solicited to complement the overall technical program. Proposers are encouraged to propose topics with open questions currently under debate within the community and for which no clear consensus has emerged. In addition, in keeping with the conference theme, Bridging Communities, panels are solicited on topics related to forward-looking technologies and discussions of future trends important to academia, industry and government labs.

Details: www.sc-conference.org/sc2004/panels.html
Questions: panels04@sc-conference.org

Posters

The SC2004 conference is soliciting submissions for posters displaying cutting-edge research in high performance computing, networking and storage. Posters provide an excellent opportunity for short presentations and informal discussions with conference attendees. The posters will be prominently displayed throughout the conference, giving presenters a chance to showcase their latest results and innovations. Posters will be chosen competitively by a panel of experts, with an award presented for Best Poster.

Details: www.sc-conference.org/sc2004/posters.html
Questions: posters04@sc-conference.org

Masterworks

Applications that work and really make a difference---that's what Masterworks is about. Presentations will highlight novel and innovative ways of applying advanced computing and communications technology to solve challenging, real-world problems. The focus will be on emerging technologies that are changing the ways science and business are carried out and have a significant impact on the general public. Suggestions for topics and speakers should be sent to the email address below for consideration by the conference Industrial Advisory Committee.

Details: www.sc-conference.org/sc2004/masterworks.html
Questions: masterworks04@sc-conference.org

SC Global

SC2004 will be the continuation of the highly successful SC Global at SC2003. It will continue to promote communication and discussions relating to high-end computing and networking and how these technologies can bring communities of scientists and researchers together to break down barriers to collaboration. Anchored in the newly constructed technology-enhanced Pittsburgh convention center, SC Global 2004 will link Access Grid communities from around the world to exchange ideas through highly informative talks, papers, panels and BOFs on topics of interest to attendees. The focus of this year's SC Global will be demonstrating collaborative applications and tools that have developed over recent years, as well as a unique venue for artistic expression and other innovative ideas in the Access Grid environment. SC Global 2004 will truly represent the conference theme of *Bridging Communities*.

SC Global 2004 activities will be open to all conference attendees. In addition, there will be participation from global satellite sites and observer sites. Global satellite sites will provide audience interaction from around the world, while Observer Sites will permit passive viewing.

Details: www.sc-conference.org/sc2004/scglobal.html

Questions: scglobal04@sc-conference.org

Birds-of-a-Feather (BOF) Sessions

Birds-of-a-Feather (BOF) sessions provide forums for conference attendees to discuss topics of mutual interest. BOFs are open to all conference attendees, including exhibitors and exhibits-only badge holders. The conference will provide meeting room facilities and post daily schedules for the BOFs. BOF proposals that exploit the SC Global infrastructure to create multinational and cross-cultural discussions are strongly encouraged. (Please note that BOFs held in conjunction with SC Global must be proposed by the April 19 SC Global deadline, not the later BOF deadline.)

Details: www.sc-conference.org/sc2004/bofs.html

Questions: bofs04@sc-conference.org

Awards

The conference again will serve as the venue for several distinguished professional awards recognizing key contributions to high performance computing, networking and storage. The Gordon Bell Award recognizes practical uses of high performance computers, including best performance of an application and best achievement in cost performance. The Seymour Cray Computer Science and Engineering Award recognizes innovative contributions to high performance computing systems that best exemplify the creative spirit of Seymour Cray. The Sidney Fernbach Memorial Award honors innovative uses of high performance computing in problem solving. These prestigious honors will be presented during a special ceremony held as a capstone to the conference.

Details: www.sc-conference.org/sc2004/awards.html

Questions: awards04@sc-conference.org

SCinet

SCinet is the advanced state-of-the-art technology network built on-site to enable world-class demonstrations and to support the annual SC conference. Designed and built entirely by volunteers from universities, government and industry, SCinet will combine leading edge hardware and high-speed wide-area communication links to provide conference exhibitors and attendees world-class connectivity to national and international networks. In addition, SCinet will provide the foundation for conference programs, including SC Global, StorCloud and the HPC Software Challenge.

Details: www.sc-conference.org/sc2004/scinet.html

Questions: scinet04@sc-conference.org

Student Volunteers

The SC conferences offer undergraduate and graduate students an opportunity to participate in one of the largest computing conferences and to find mentors to help them in their personal career planning. Student volunteers meet and work with leaders in the high performance computing, networking and storage industries while performing a valuable service for the conference. This

year an effort will be made to pair student volunteers with professionals having similar areas of interest. Opportunities include work with SCinet, StorCloud, media relations, exhibitor setup, SC Global and a host of other functions. Students from minority-serving institutions are especially encouraged to volunteer.

Details: www.sc-conference.org/sc2004/students.html

Questions: students04@sc-conference.org

Exhibits

Industry Exhibits

SC2004 will feature premier exhibits from the leading companies in high performance computing, networking, storage, data management, communications, scientific visualization and collaborative technologies. Industrial exhibitors will demonstrate the future direction of the field, live on the showroom floor. SC2004 will bring together scientists, engineers, and managers --- four out of five of whom influence purchasing decisions---to see state-of-the-art technologies and the latest innovations in high-performance computing, networking and related disciplines. The conference will continue the rich tradition of bringing decision makers, leading scientists and technical experts together to see tomorrow today.

Details: www.sc-conference.org/sc2004/industry_exhibits.html

Questions: industry-exhibits04@sc-conference.org

Research Exhibits

Research exhibits showcase the newest, the latest and the most innovative advances in high performance computing, networking, and storage from around the world. Exhibitors are drawn from universities, national laboratories, and nonprofit research centers in Australia, Europe, the Far East, South America, North America and around the world. Research exhibits provide an international venue for scientists and engineers to display the latest computational science advances, research and development plans, new concepts, software and other technologies. Feature your innovative research at SC2004 and attract attention to the ways in which high performance computing and computational science revolutionize our knowledge of the world around us.

Details: www.sc-conference.org/sc2004/research_exhibits.html

Questions: research-exhibits04@sc-conference.org

Exhibitor Forum

SC2004 will offer industrial exhibitors the opportunity to highlight research and development breakthroughs in the Exhibitor Forum. This forum showcases the latest technology advances from industry exhibitors in all high-performance related disciplines.

Details: www.sc-conference.org/sc2004/exhibitor_forum.html

Questions: exhibitor-forum04@sc-conference.org

Special Initiatives

StorCloud

StorCloud, a special initiative new at SC2004, will create a high performance computing (HPC) storage capability to showcase HPC storage technologies (topologies, devices,

interconnects). StorCloud will comprise state-of-the-art heterogeneous devices and technology to build a virtual on-site “storage on request” area network capability to support researchers and demonstrate high bandwidth applications at the conference.

The goals of the StorCloud initiative are to:

- showcase evolutionary and revolutionary HPC storage technologies in a heterogeneous environment.
- provide 1 PetaByte (1024^5) of randomly accessible storage to StorCloud participants.
- approach a 1 TeraByte (1024^4) per second infrastructure bandwidth.
- provide a 1 GigaByte (1024^3) per second backup bandwidth.
- incorporate/leverage SCinet infrastructure.
- manage and allocate resources to SC2004 participants.

StorCloud will be architected and deployed entirely by volunteers from government, industry and academia. It will combine state-of-the-art access mechanisms, storage devices, and control/management software to provide an extreme storage capability to conference exhibitors.

Details: www.sc-conference.org/sc2004/storcloud.html

Questions: storcloud04@sc-conference.org

InfoStar

InfoStar is a new SC special initiative whose goals are to: (1) provide real-time information about multiple aspects of the conference to all participants, and (2) create a searchable knowledge base about conference events and attendance for the benefit of future SC conference planners. Technical program participants will be able to obtain daily information about each session, including updated information about each presentation and speaker bios and notes when available. Session organizers will have upload rights to provide updated information about their session to all InfoStar users. With this new InfoStar capability the days of attending an SC session just to find out that the talk you really wanted to hear happened an hour ago because of a schedule change will be a thing of the past. Exhibit-goers will have up to the minute information about each booth and vendor on the show floor. Exhibitors will have upload rights to InfoStar to provide customized information about activities in their booth to conference attendees each day.

InfoStar will provide its information over the SCinet-provided wireless network to laptop users as well as to dedicated InfoStar kiosks that will be located in various locations in the conference hall. A full-text search and query capability will be provided for laptop users and at the InfoStar kiosks. We are also exploring providing Palm-based and Windows CE-based PDA applications for downloading and viewing InfoStar information.

InfoStar will be developed by a volunteer team of information and knowledge-management experts.

Details: www.sc-conference.org/sc2004/infostar.html

Questions: infostar04@sc-conference.org

Challenges

StorCloud Challenge

StorCloud will host an applications competition at SC2004. Applicants from science and engineering communities across the globe are encouraged to use the unique StorCloud infrastructure to demonstrate emerging techniques or applications, many of which consume enormous amounts of network and storage resources. Applicants are challenged to significantly stress the StorCloud infrastructure while delivering innovative application value across the multiple research networks that connect to StorCloud. See the StorCloud web page for more information on this exciting venue.

Details: www.sc-conference.org/sc2004/storcloud_challenge.html

Questions: storcloud-challenge04@sc-conference.org

HPC Software Challenge

The HPC Software Challenge awards will honor participants who excel at quality software development. The simulations and computations that drive HPC are becoming more complex, as are the HPC systems that run them. Software development can become as restrictive a bottleneck as computational intensity. "Coding" must evolve into software engineering to enable software that is not only computationally efficient but also maintainable, extensible and verifiable. The HPC Software Challenge will provide opportunities for contestants to showcase the productivity of their software-development process and the quality of their source code. Submissions may be made through the SC2004 website.

Details: www.sc-conference.org/sc2004/hpc_challenge.html

Questions: hpc-challenge04@sc-conference.org

HPC Bandwidth Challenge

The High-Performance Bandwidth Challenge, an annual competition for leading-edge network applications developed by teams of researchers from around the world, provides a showcase for the technologies and people who provide the networking capabilities crucial to supercomputing. The bandwidth challenge, running across SCInet, is designed to test the limits of network capabilities, and past events have showcased multi-gigabit per second demonstrations never before thought possible. The SC2004 challenge pushes this envelope even farther.

Details: www.sc-conference.org/sc2004/bandwidth.html

Questions: bandwidth04@sc-conference.org

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