



SC2003 **IGNITING INNOVATION**

PHOENIX | AZ | NOVEMBER 15 - 21

SC Global 2003

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Getting Oriented

- **How many folks here. . .**
 - Have been to an AG retreat before?
 - Have heard of SC Global before?
 - Participated in SC Global 2001?

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What is SC Global?

- A link among the Phoenix Civic Plaza and Access Grid nodes worldwide
- A component of the Supercomputing 2003 Technical Program
 - Traditional SC technical content
 - Innovative uses and discussions of distributed collaboration technologies
- A multi-national and multi-cultural event, first held in 2001

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What's Different in 2003?

- **Single physical venue at conference site**
- **Far fewer program hours:**
 - Approximately 13.5 in 2003, compared to 64.5 in 2001
 - We anticipate a more competitive proposal process
- **Improved technical and production preparations**

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Valuable Lessons from SCG01

- Do feature visually innovative uses of the AG
- Do collaborate closely with SC Tech Program
- Do set up early on-site
- Don't introduce new technology at the last minute
- Don't put network bridges at the convention center
- Don't skimp on evaluation

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Constellation Sites

- **Contributes content to SCG program**
- **Provides interactive experience for “audience” participants**
 - ie, May transmit in vic and rat
- **Selected through content proposal process**

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Satellite Sites

- **Provides interactive experience for “audience” participants**
 - ie, May transmit in vic and rat
- **Selected through application and certification process**
 - **Deadline for registration: September 15**
 - **Deadline for certification: October 15**

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Observer Sites

- **Passive viewing**
 - ie, may not transmit in vic or rat
- **Open to all; no application or certification**
 - We reserve the right to require some sort of registration, to keep track of participating sites

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Please Submit Proposals!

- Submissions for SC Global program are being accepted April 7 – 25
 - SC Global Showcase
 - SC Global Papers
 - SC Global Panels
 - SC Global BoFs

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Proposal Review Criteria

- High quality content
- Interesting and feasible use of the AG
- Archived talk at scglobal.org includes more detailed information
 - PowerPoint slides and RealMedia stream

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SCG and AG 2.0

- We are very interested in receiving proposals which feature AG2's expanded and improved functionality
- We encourage all participating sites to install AG2



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SC Global Organizing Committee

- **Chair:** Jennifer Teig von Hoffman, Boston University, US
- **Deputy Chair:** Jackie Kern, NCSA, US
- **Recording Secretary:** Jeff Shuckra, University of New Mexico, US
- **General Producer:** Jeff Carpenter, NCSA, US
- **Technical Director:** Mike Daw, University of Manchester, UK
- **Node Manager:** Jim Miller, inSORS Integrated Communications, US
- **Networking Manager:** Eric Gauthier, Boston University, US
- **Networking Specialist:** Michael Robson, University of Manchester, UK
- **Floor Manager:** Shawn Davis, NCSA, US
- **Recording Specialist:** Jonathan Tyman, Internet 2, US
- **Remote Sites Manager:** Martin Sczimarowsky, Forschungszentrum Juelich (Juelich Research Center), Germany
- **Outreach Specialist:** Stephenie McLean, NCSA, US
- **Outreach Specialist for Asia/Pacific:** Kazuyuki Shudo, National Institute of Advanced Industrial Science and Technology Japan
- **Volunteer Liaison:** Barbara Kucera, NCSA, US
- **Evaluation Specialist:** Michelle Linster-Glenn, Winston-Salem State University, US
- **Archivist:** Julia Mullen, Worcester Polytechnic Institute, US
- **Liaison to AG Development Team:** Ivan Judson, Argonne National Laboratory, US
- **Committee Members at Large:** Stephen Booth, University of Edinburgh, UK; Terry Disz, ANL, US; Vikram Gazula, U Kentucky, US; Greg Goddard, UF, US; Bob Olson, ANL, US; Chris Osland, CLRC RAL, UK; Linda Winkler, ANL, US

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SC Global Review Team

- Deb Agarwal, Lawrence Berkeley National Laboratory, US
- Erik Brisson, Boston University, US
- Jeff Carpenter, NCSA, US
- Donna Cox, NCSA, US
- Michael Daw, University of Manchester, UK
- Terry Disz, Argonne National Laboratory, US
- Thomas Eickermann, Juelich Research Center, Germany
- George Estes, NCSA, US
- Eric Gauthier, Boston University, US
- Vikram Gazula, University of Kentucky, US
- Roscoe Giles, Boston University, US
- Greg Goddard, University of Florida, US
- Ivan Judson, Argonne National Laboratory, US
- Jackie Kern, NCSA, US
- Barbara Kucera, NCSA, US
- Michelle Linster-Glenn, Winston-Salem State University, US
- Jimmy Miklavcic, University of Utah, US
- Julie Mullen, Worcester Polytechnic Institute, US
- Robert Olson, Argonne National Laboratory, US
- Luc Renambot, University of Illinois at Chicago, US
- Michael Robson, University of Manchester, UK
- Dan Sandin, University of Illinois at Chicago, US
- Martin Sczimarowsky, Juelich Research Center, Germany
- Kazuyuki Shudo, National Institute of Advanced Industrial Science and Technology Japan
- Paul Wesel, NCSA, US

**Bold print =
correction from
today's handout**

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Today's Panelists

- **Michael Daw, University of Manchester**
 - Technical Director
- **Jeffrey Carpenter, NCSA**
 - General Producer
- **Jackie Kern, NCSA**
 - Deputy Chair
 - Chair, 2004

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Technical Infrastructure: The Plan for SC Global 2003

Michael Daw, Technical
Director

University of Manchester

mike.daw@man.ac.uk



The University of Manchester



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Contents

- **Aims of the Technical Infrastructure**
- **Timings**
- **Infrastructure Elements**
- **Technology Hubs**

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Aims of Technical Infrastructure

- To support sites to connect and stay connected!
- Constellation, Satellite, Observer
- To support remote presentations
- To record sessions

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Timings

- **Final at 11th August**
- **Before test cruises**
- **Before Production Institute**
- **No last minute changes!**
- **But currently provisional**

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TIP Contents

- **How-To Guide**
- **Venues Server**
- **Observer Sites Reflector**
- **Multicast-Unicast Bridging**
- **Presentation Software**
- **Session Recording**

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How-To Guide

- **How-To Guide – supplemental to the Production Institute**
- **Hosted on web for easy access**
- **Guide contents:**
 - **How to connect to a session (Constellation/Satellite Sites)**
 - **How to connect to a session (Observer Sites)**
 - **How to use bridging**
 - **Venue parameters (multicast addresses/ports for each venue)**
 - **Pointers to other documentation**
 - **Etc.**

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Venues Server

- One venue per session, plus Observer venue
- AG2.x Venues Server
- Static multicast address/port
- ACL will limit access for main venues to Constellation/Satellite sites only
- Held on 3 physical servers spread around the world

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Observer Sites Reflector

- Enables Observer sites to observe sessions
- Main session venues are secure and protected by ACL
- Observer venue will be non-secure and not protected by ACL
- OSR is software to achieve this
- Thanks to Stephen Booth of Edinburgh Parallel Computing Centre for OSR software
- There may be other support for Observers (e.g. RealPlayer)

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Multicast-Unicast Bridging

- For sites with no multicast and as fallback should multicast fail
- Bridging for both main session venue (high priority) and observer venue (lower priority)
- ACLs for main session venue bridge
- Based on QuickBridge, but may use integrated AG2.x solution

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Question Tool

- Floor control and question management
- Specially written software using web forms
- Observers can also participate
- We may require that questions must be submitted via Question Tool

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Presentation Software

- **Enhanced Distributed PowerPoint may be written as part of AG2**
- **Other options are still being considered (Remote PowerPoint, IGPIx, VNC)**
- **Also, there some submissions may call for bespoke solutions**

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Session Recording

- **Voyager?**
- **inSORS RTP recorder?**
- **Other forms (RealPlayer, etc.)**
- **Recording Specialist: Jonathan Tyman, Internet2**

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Technology Hubs – Without Whom...

- **Asia-Pacific Region:**
 - Sydney VisLab, Australia
 - Brisbane, Australia
 - K-JIST, Gwangju, Korea
 - KISTI, Korea
- **America:**
 - ITaP, Purdue University
 - Lawrence Berkeley National Lab
 - CCS, University of Kentucky
 - NCSA
 - ANL
- **Europe:**
 - University of Manchester

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Contact Details

<http://www.sve.man.ac.uk/General/Staff/daw>

michael.daw@man.ac.uk

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Production Plans and Test Cruises

Jeff Carpenter

SCGlobal General Producer

NCSA

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Tailored Preparations

- Your site's preparation requirements depend heavily on your site's specific participation
 - Constellation Sites (whose preparations in turn vary depending on nature of session)
 - Satellite Sites
 - Observer Sites

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Constellation Site-Production Plans

- **Links to Production Plan templates will be included in the notification of acceptance**
- **Initial Version of Production Plans due August 1**
- **Final Revisions of Production plans due Aug 25**



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Typical Production Plan

Clock Time	Action	Who?	Site	Files
00:00	Welcome & Introduce Sites	Master of Ceremonies @ Hub Site	Hub Site	
00:05	Speaker			Link to PPT
00:25	Speaker			Link to PPT
00:40	Speaker			Link to PPT
01:00	Q & A / Discussion	Led by Master of Ceremonies @ Hub Site		
01:20	Closing	Master of Ceremonies @ Hub Site	Hub Site	

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Constellation Sites: Test Cruises

- Cruises will be session specific
- Work on technical proficiency and connections, then go to content rehearsals
- Showcase sessions will push the boundaries of AG tech, and will require more preparation

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Test Cruises – Important Dates

- **Technical test cruises begin Aug 4**
- **Content rehearsals will begin after all participating sites for a particular session are technically sound.**
- **Mega-cruise may be held Mid-Late October.**
- **We have access to the Phoenix Convention Center room early, full Mega-cruise may wait until setup onsite**

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Test Cruises – Important Dates

From Phoenix Convention Center

- **Nov 14: initial, bare-bones mega-cruise to provide feedback to scinet**
- **Nov 15-16: allow time for scinet debugging, test cruises as needed**
- **Nov 17: full mega-cruise**
- **Nov 18 - 20: SCG sessions**

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Satellite Sites

Courtesy Martin Sczimarowsky (Forschungszentrum Jülich / Germany)

- **Observer Sites**
uncertified,
Non-interactive access to the Venue via Reflector (OSR)
(provide local audience with the venue audio/video)
- **Satellite Sites**
certified,
Interactive access to the SCG03 Venue, ask questions, participate in discussions
(additionally provide the remote Venue audience with local audio/video)



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Satellite Sites - Selection Process

Courtesy Martin Sczimarowsky (Forschungszentrum Jülich / Germany)

Selected through application and certification process

Deadline for registration: September 15

Deadline for certification: October 15

Expected to host a large part of the SCG03 audience

Need to be certified to be in a good working order

- to support their local audience
- not to cause problems that affect others





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Satellite Sites - Certification

Courtesy Martin Sczimarowsky (Forschungszentrum Jülich / Germany)

Satellite Sites Certification

In planning state now, details to be specified

Registration

(starting date to be fixed)

Certification Sessions

(between Sep.15 and Oct 15)

Certified sites will be included in ACLs on Venues Server and Main Session Venue Bridge

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Satellite Sites - Certification

Courtesy Martin Sczimarowsky (Forschungszentrum Jülich / Germany)

Items to be introduced, checked, trained during the Certification sessions

AG node setup

(well adjusted, echo free audio, video)

Venue Access

(encryption)

Question Tool

Applications

(presentation, vnc)

Networking

(contingency plans, firewall)

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What's Next?

- **To be a Constellation Site...**
Submit your proposal by April 25
<http://www.sc-submissions.org/sc2003/>
- **To be a Satellite Site, be sure to register by September 15**
Link to registration site, will be posted to AG-Tech when it becomes available

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SC Global 2004

Jackie Kern

SC Global Chair, 2004

NCSA

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SC Global 04

- To be held in Pittsburgh
- Huge support from the General Chair of SC04.
- One main room with content chosen from a submission process.
 - Same as SC Global 03
- Several PIGs setup for use by attendees that want a private meeting room throughout the conference.

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Pittsburgh Convention Center

- **In the process of being built.**
- **Large meeting rooms for technical program and SC Global**

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David L. Lawrence Convention Center



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Volunteers

- We will need your email address, name and what part of SC Global you are interested in helping with.
 - i.e. networking, content team, archivist, recording secretary, node ops, etc.
- Email jkern@ncsa.uiuc.edu
- Or drop off your business card to myself or Jennifer