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Member updates are archived at: <http://members.internet2.edu/memberupdates/>

<> Internet2 Activities at SC2004

Internet2, and Internet2 members, are participating in several aspects of SC2004, taking place 6-12 November 2004 in Pittsburgh. The annual SC conference highlights the most innovative developments in high-performance computing and advanced networking. The Internet2 booth (#2241) in the SC2004 exhibit area will feature a series of mini-presentations on topics such as network performance tools, security, digital video, and more. SC Global 2004 features presentations on innovative uses of interactive technology and also provides a behind-the-scenes look at the technology required to produce this geographically distributed event. SC Global presentations emphasize advances in AccessGrid (AG) technology and describe how the AG is being used for scientific and artistic collaborations and for reaching out to underserved areas. SC Global is accessible to sites running the AG Toolkit. In addition, the Internet2 Commons is providing a VBrick MPEG-2 stream (accessible to anyone using the free VBrick Streamplayer client), a Windows Media stream, and an HD over DVIP stream at 19.2 Mbps.

<http://events.internet2.edu/2004/sc2004.html>

<> Internet2 and Members Contribute to SCinet

Internet2 and several members of the Internet2 community are making significant contributions to SCinet, the collection of high-performance networks built each year to support the SC Conference. In partnership with Qwest Communications, Level 3 Communications, and MCI--SCinet is providing direct wide area connectivity to Internet2's Abilene Network and to many other networks worldwide. In addition, SCinet is working with National Lambda Rail to provide very high bandwidth transit for several national optical network testbeds into Pittsburgh for the conference. Internet2 will provide a map showing current utilization on all SCinet external links, based on the technology used for the Abilene weather map, developed by the Abilene Network Operations Center (NOC) at Indiana University. In addition to general network monitoring, an Internet2 team has set up performance measurement points running OWAMP, NDT, and BWCTL at the NOC. Regularly scheduled tests will be run to both ESnet and to Abilene nodes, monitoring the quality of the peering between SCinet and other research networks. On-demand tests to all three nodes will be used to debug network performance issues.

<http://www.sc-conference.org/sc2004/scinet.html>

<> Internet2/CANARIE Multicast Hands-On Workshop

Dalhousie University in Halifax, Nova Scotia is hosting the Internet2/CANARIE Multicast Hands-On Workshop, 20-22 November. Workshop participants will design and set up a set of inter-connected multicast networks. The hands-on workshop will include a set of exercises for small network teams. Each team will work on a mix of router types and over the course of the workshop will configure their own network and then interconnect with the other teams. Participants will learn to engineer multicast network, troubleshoot multicast problems, and explain multicast engineering concepts to peers.

<http://www.canarie.ca/conferences/advnet2004/multicast.html>

<> Spring 2005 Internet2 Member Meeting Call for Proposals

The Spring 2005 Internet2 Member Meeting will be held 2-4 May 2005 in Arlington, Virginia. A Call for Proposals for topic sessions will be issued on 8 December 2004, with a submission deadline of Friday, 21 January 2005. Proposal submitters will be notified regarding acceptance of their proposals by 18 February.

<http://events.internet2.edu/2005/spring-mm/>

<> Mark Your Calendars for Winter ESCC/Internet2 Joint Techs Workshop

The University of Utah in Salt Lake City will host the Winter 2005 ESCC/Internet2 Joint Techs Workshop during the week of 13 February. Tutorials will be held Sunday afternoon and plenary sessions will start Monday morning and run until lunch on Wednesday. In-depth sessions will be held Wednesday afternoon and (possibly) Thursday morning. Focus areas are still under development, but will include wireless. There will also be BoFs and Vendor Soup sessions as well as various Internet2 Working Groups, Special Interest Groups,

and side meetings over lunch on Monday and Tuesday and at the hotel in the evenings. A reception will be held on Monday evening.

<http://jointtechs.ornl.gov/SLC2005.html>

<> Quilt Regional Optical Networking Workshop

The Quilt, in conjunction with MCNC, will be hosting the second Fiber Workshop on 30 November-2 December in Research Triangle Park, NC. This workshop will focus on issues associated with building and managing metro or regional optical networking infrastructure. A true example topology will be used as a case study, including presentations by vendors on how their equipment would be deployed over this topology. Specific topics covered will include fiber types, optical networking equipment, optical testing, regional optical networks, and backbones.

<http://www.thequilt.net/meetings/Dec-Fiber-Meeting/index.html>

<> Corporate Relations Update

+ "Click to Meet" Internet2 Grant Program

First Virtual Communications, Inc. an Internet2 corporate sponsor and provider of infrastructure software and solutions for real-time, rich media communications, has launched the Click to Meet(tm) Internet2 Grant Program. Click to Meet combines high-quality, standards-based multipoint audio, video, and web collaboration in a single web browser interface. Educational institutions use Click to Meet for meetings, classes, electronic field trips, and interaction with remote guest lecturers. Internet2 university members may apply for a grant that includes free software and one year of technical support and developer resources.

<http://www.fvc.com/eng/education/internet2grant.htm>

+ ESCC/Internet2 Joint Techs Workshop Welcome Reception Sponsorship Opportunity

Internet2 is seeking a sponsor for the welcome reception at the ESCC/Internet2 Joint Techs Workshop, which will be hosted by the University of Utah in Salt Lake City the week of 13 February 2005. The welcome reception will be held the evening of Monday, 14 February 2005. The sponsor will be acknowledged via signage at the event site and on the workshop web site. We welcome suggestions regarding additional ways to acknowledge generous support. For more information please contact Ellen Vaughan <evaughan@internet2.edu>.

<> Applications Update

+ Joint Internet2/NLM Tutorials and Demos at RSNA

Internet2, the National Library of Medicine (NLM), and the Metropolitan Research and Education Network (MREN) are collaborating to present a series of tutorials and demonstrations of advanced networking technology and its future application in the healthcare arena. These tutorials and demos will be featured at the annual meeting of the Radiological Society of North America (RSNA), which

will take place in Chicago from 28 November to 3 December 2004. Around 30,000 radiologists, healthcare administrators, technologists and scientists, plus another 30,000 imaging and information system vendors from all over the world, are expected to attend RSNA 2004 making it one of the world's largest medical meetings.

<http://apps.internet2.edu/rsna2004-demos.html>

+ Megaconference VI on December 9

Join your colleagues from around the globe for a participatory conference via videoconference. Now in its sixth year, the Megaconference has been a hallmark event for learning about cutting-edge uses of videoconferencing. The event also pushes the state of the art in videoconferencing, bridging more than 200 sites at 768 Kbps, and will this year allow both H.323 and SIP software endpoints for the first time. Sign up to participate in this daylong, one-of-a-kind event. Registration is free.

<http://www.megaconference.org/registration/>

+ Ruth Lilly Health Education Center Celebrates 15 Years

The Ruth Lilly Health Education Center (RLHEC), located in Indianapolis, IN, is a not-for-profit organization with a mission of providing health education through innovative presentations that promote healthy lifestyle choices for children and adults. RLHEC, who became an Internet2 member in June 2004, used their recent 15th anniversary celebration to demonstrate the potential of advanced networking technology for use in outreach and education. The celebration featured 3D simulation movies of dental health, anatomy, and other health-related topics, developed for RLHEC through their close affiliation with the Indiana University School of Informatics. Darrell Bailey, Executive Associate Dean of IU's School of Informatics, was among the presenters. Another demonstration featured Steve Senger from the University of Wisconsin - LaCrosse who gave attendees a virtual tour of human digital anatomy using the innovative tools he developed in conjunction with Parvati Dev, and other collaborators, at Stanford University.

<http://www.healtheducationcenter.org/>

<> International Update

+ Chinese American Networking Symposium Conference

The Chinese American Networking Symposium (CANS) conference will be held 30 November to 2 December in Miami, FL. Networking experts from China and the United States gather annually at CANS to discuss new ideas and advancements in networking technologies. The annual programs, alternately held in the US and China, include presentations by networking experts, panel discussions, and executive and technical breakout sessions. Internet2, along with the Chinese Association for Science and Technology (CAST-USA) and the China Education and Research Network (CERNET) and China Science and Technology Network (CSTNET) are organizers of the event. CANS2004 will be

hosted in Miami at the Kovens Conference Center at Florida International University. Simultaneous Chinese/English translation will be provided.

<http://www.canscouncil.org/cans/2004/index.html>

+ CUDI advances applications and collaborations

CUDI (Corporacion Universitaria para el Desarrollo de Internet), the not-for-profit corporation in charge of the advanced research and education network in Mexico, had its bi-annual member meeting in Acapulco, Mexico from October 14-15. Highlights of the meeting included many exciting demos on robotics, nanotechnology, tele-medicine, grids, earth sciences, virtual reality and a live "opera" performance, as well as presentations on ongoing collaborations taking place over the CUDI network and with several partner networks around the world, including Internet2's Abilene Network. Leaders of the Internet2 community spoke at the conference, including Dr. Larry R. Faulkner, President of the University of Texas and Chair of Internet2's Board of Trustees; Dr. Doug Van Houweling, President and CEO of Internet2 and Dr. Sangtae Kim, Director of Shared Cyberinfrastructure at the CISE Directorate at the US National Science Foundation, as well as other renowned leaders from the global networking community. CUDI, an Internet2 international partner since 1999, has over 400 Mbps of connectivity into the Internet2 backbone network and connects over 80 Mexican universities and research centers.

http://www.cudi.edu.mx/otono_2004/programa.html

<> Middleware Update

+ Shibboleth

- Phase 1 of the Shibboleth Federal e-authentication pilot project has been successfully completed. The Shibboleth software was modified to meet the e-auth specification and successfully inter-operated with e-auth test sites. Phase 2 will complete the implementation of the e-auth support, which will make Shibboleth v1.3 software e-auth compliant. Subsequent work is intended to align policy and trust models around the technology. E-Authn certification would mean that campuses could use the Shibboleth software, and the InCommon federation, to interact with Federal government web sites.

<http://shibboleth.internet2.edu/>

- Elsevier's ScienceDirect recently completed its pilot project with a small group of campuses including Dartmouth College, Georgetown University, New York University, Penn State, and University of California, San Diego to deploy and test Shibboleth. This will ensure ScienceDirect is in a good position to make Shibboleth authentication available to a wider audience and helps Shibboleth and the InQueue/InCommon federations move forward. If you would like to begin using Shibboleth enabled ScienceDirect please contact Niels Weertman <N.Weertman@elsevier.com>.

- NSF has recently awarded Argonne National Laboratory and the National Computational Science Alliance (NCSA) funding for a "Policy Controlled Attribute Framework." These projects will integrate "GSI and Shibboleth to form a robust attribute infrastructure for campus environments to enable secure verification of user attributes by inter-institutional Grid users." More information will be coming out soon from the receiving organizations.

<http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0438424>

<http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0438385>

- Article on Shibboleth in EDUCAUSE Quarterly

An article on Shibboleth titled "Federated Security: The Shibboleth Approach" co-authored by R. L. "Bob" Morgan, Scott Cantor, Steven Carmody, Walter Hoehn, and Ken Klingenstein can be found in the recently released issue of EDUCAUSE Quarterly, Volume 27 Number 4.

<http://www.educause.edu/ir/library/pdf/eqm0442.pdf>

+ Federations

- International Meeting: Authentication and Authorization Infrastructure

An international peering meeting was held in the Cotswolds, UK, on 14-15 October to discuss interconnecting national authentication and authorization infrastructures to support the research and education community internationally. The meeting was attended by representatives from Australia, Finland, the Netherlands, Spain, Switzerland, UK, US, and CERN. Documents, experiences, and issues relating to national federations were shared. Issues included agreeing on policy framework, comparing policies, correlating application usage to trust level, aligning privacy needs, working with multinational service providers, and scaling the WAYF function. Discussions focused on Internal Federations, Inter-Federations, and Union of Federations. Major outcomes included assembling a "cookbook" or guidance documentation, establishing a website for communication, and potentially establishing a short-term position to coordinate the activities.

<http://www.incommonfederation.org/docs/other/Intl-middleware-oct-2004.html>

- The Inside ID Conference, taking place in Washington, DC on 15-17 November, will include a track on Models of Federated ID and Web Services. Ken Klingenstein has been invited to present on "InCommon: A Shibboleth-based Research and Education Federation."

<http://www.jupiterevents.com/insideid04/agenda2.html#130-1>

- Middleware presentation at CNI

The Coalition for Networked Information (CNI) will hold its next meeting on 6-7 December in Portland, OR. This is a reminder to those who will be attending that there are plans for a middleware update including current status and future plans for Shibboleth to be presented by Nathan Dors, University of Washington.

<http://www.cni.org/tfms/2004b.fall/index.html>

+ Diagnostics

The middleware E2E diagnostics pilot and proof of concept for the Common Event Record and the Diagnostic Backplane Concept have been successfully completed. The group is now taking the lessons learned and applying them to the technology and the common event record system.

<http://middleware.internet2.edu/e2ed/public/pilot/pilothome.html>

+ Signet Working Group

In response to the recent Signet early adopter CFP, three institutions have been accepted into the program. They are the University of Wisconsin-Madison, the University of Southern California, and the University of California, Davis. Details of their participation will be available soon on the Signet webpage.

<http://middleware.internet2.edu/signet/>

+ National Science Foundation Middleware Initiative (NMI)

- November CAMP Identity Management and Enterprise Authentication Workshops

The next CAMPs are only weeks away and registration is still open. For more information on CAMP Identity Management Workshop, refer to

http://www.educause.edu/content.asp?SECTION_ID=42.

For information on the CAMP Enterprise Authentication Workshop, refer to

http://www.educause.edu/content.asp?SECTION_ID=43.

- Save the Date: CAMP Med: Identity and Access Management for Medical Applications

NMI-EDIT will be holding a CAMP focusing on medical middleware in Tempe, Arizona on 9-11 February 2005.

<http://www.educause.edu/conference/nmi/>

- Middleware CAMPs are now going international with the inaugural Australian Middleware CAMP scheduled for 9-11 December at Griffith University in Queensland and a Euro CAMP tentatively scheduled for 2-5 March 2005.

<http://www.aarnet.edu.au/events/middle/2004/>

+ Directories

The Internet2 MACE-Directories Working Group is preparing a draft specification of attributes to express membership relationships. This specification will follow a new style of schema declaration, which facilitates representation in different technological contexts such as LDAP directories and SAML messages. The Working Group's Grouper project is ramping up to its initial release, expected to occur in December in conjunction with the upcoming 6th release of National Science Foundation Middleware Initiative components.

<http://middleware.internet2.edu/dir/>

<> Security Update

+ SALSA

During the SC2004 conference in Pittsburgh, 6-12 November 2004, T. Charles Yun, Internet2 Program Manager for Application Program Science and Engineering, will provide several talks with respect to Internet2 activities in the security arena, specifically focusing on SALSA activities.

<http://security.internet2.edu/salsa/index.html>

+ NetAuth Working Group

EDUCAUSE Live! is going to feature the NetAuth Working Groups efforts in its upcoming seminar on 12 November. The speakers for the seminar will include Phil Rodriguez from New York University and Chris Stephens from Lewis and Clark.

<http://www.educause.edu/live/>

<http://security.internet2.edu/netauth/index.html>

<> End-to-End Performance Initiative Update

+ E2E piPEs (End-to-End Performance Initiative Performance Environment System)

A concerted effort to make PMPs (performance measurement points) available has begun. As of November 2004, ten institutions/networks have installed publicly accessible PMPs, including recent addition ESnet.

<http://e2epi.internet2.edu/pipes/pmp/pmp-dir.html>

+ Measurement Tools in Use

Since the new software was released in September 2004:

- Seventeen locations downloaded the code of the alpha release of the "glue" software

- Sixty-seven locations downloaded version 1.1b of BWCTL

- Fifty locations downloaded version 1.6f of OWAMP

- Seventy-three locations downloaded version 3.0.21 of NDT

Statistics on the downloads of each of the four tools is being collected

<http://people.internet2.edu/~ghb/pmwiki/pmwiki.php/Main/StatspiPEs>

+ Publications in Production

Four documents were drafted in November 2004 relating to performance and measurement:

- An extended abstract for a PAM2005 paper

- The newest release of OWAMP specifications was submitted to the IETF IPPM Working Group

- The Internet2/GEANT2 joint whitepaper on interoperable measurement architectures has begun

- A formal Plan for Deployment of E2E piPEs was drafted

<> FiberCo Update

+ Florida LambdaRail Acquires FiberCo Dark Fiber for Regional Optical Network

FiberCo announced that Florida LambdaRail LLC (FLR), a consortium of nine public and private Florida universities has purchased the rights to 1,540 route miles of dark fiber and collocation services from FiberCo, under an agreement with Level 3 Communications, Inc. Utilizing FiberCo's national-scale wholesale pricing structure and streamlined fiber acquisition process, FLR acquired the dark fiber at a significantly discounted rate and will use the network facilities to create an advanced optical network that connects campuses and institutions across the state.

<https://mail.internet2.edu/wws/arc/i2-news/2004-10/msg00005.html>

+ Pacific Northwest National Laboratory Allocated FiberCo Dark Fiber

FiberCo announced that the Pacific Northwest National Laboratory (PNNL), one of nine U.S. Department of Energy (DOE) multi-program national laboratories, has purchased the rights to 561 route-miles of Level 3 Communications inter-city dark fiber optic cable between Seattle, Washington, and Boise, Idaho, with an additional lateral connection to Richland, Washington. The new fiber will enable PNNL to establish next-generation optical network connections to the new DOE UltraScience Network, the Pacific Northwest Gigapop in Seattle, Internet2's Abilene Network, and other national and international high-performance networks.

<https://mail.internet2.edu/wws/arc/i2-news/2004-10/msg00002.html>

<> K20 Initiative Update

+ Schools, Colleges Flock to Internet2

Louis Fox, Director of the Internet2 K20 Initiative, presented at an FCC hearing on 6 October 2004 making the case for increased support for broadband in K12, museums, and libraries across the country. An excellent story on Internet2 appeared in eSchool News following the hearing. A quick free registration process is required to view the link below.

<http://www.eschoolnews.com/news/PFshowstory.cfm?ArticleID=5324>

<> Internet2 Showcases and Spotlights

+ The Envision Center for Data Perceptualization

Scientists and researchers at Purdue University can collaborate with teams worldwide to analyze the movement of the earth's plates, image areas of the brain and spine, or design the next-generation automobile. The Envision Center for Data Perceptualization enables such research by providing a special facility for 3D visualization of data. The mission of the Envision Center is to address the exponential growth of data that has resulted from advances in computing and instrumentation techniques and provide efficient tools for the interpretation, or "perceptualization," of this data across multiple disciplines. Large-scale visualization facilities such as the Access Grid and CAVE virtual-reality

environments--as well as haptic devices that allow researchers to "feel" data using sensory feedback--have emerged as key technologies in this realm. Through the Envision Center's connection to the Abilene Network, these tools and resources are now accessible for collaborations worldwide. Purdue is also a Teragrid site, providing their researchers with access to a distributed supercomputing infrastructure across the US. Representatives from the Envision Center will be demonstrating some of their innovative technologies at the upcoming SC Global, held in conjunction with SC2004 (6-12 November 2004 in Pittsburgh). The Envision Center receives support from the National Science Foundation.

<http://www.envision.purdue.edu/>

For more Internet2 showcases, see:

<http://www.internet2.edu/pastshowcases.cfm>

+ Member Spotlight: Gary Dietz

Gary Dietz leads First Virtual Communications' activities in the Internet2 community. As the education marketing manager at First Virtual, he is responsible for ensuring that the company's real-time, rich media communications products and services meet the needs of higher education and K-12 institutions. Gary interacts daily with educators to extend his knowledge of their e-learning requirements and works to deliver "blended" real-time learning solutions that combine high-quality multipoint voice and video with web collaboration tools. Gary is looking forward to working with Internet2 members on the Click to Meet Internet2 Grant Program.

<http://www.internet2.edu/pastspotlights.cfm>

Showcases and spotlights highlight exemplary milestones, events, collaborations, and people within the Internet2 community. Send suggestions about projects, people or news to <publications@internet2.edu>.

<> New Internet2 Members

+ Affiliate Members

- Internet Educational Equal Access Foundation

<http://www.ieeaf.org/>

- U.S. Census Bureau (with Collaboration Site Status)

<http://www.census.gov/>

<> Coming in January: New Location for Internet2 Ann Arbor Office

In January 2005, Internet2's Ann Arbor office will relocate to the new Michigan Information Technology Center building. Both the central Internet2 phone numbers and individual Internet2 staff phone numbers will remain the same.

Please make a note of the new mailing address:

Internet2
1000 Oakbrook Drive, Suite 300

Ann Arbor MI, 48104

<> Future Internet2 Events

+ Spring 2005 Internet2 Member Meeting

2-4 May 2005

Arlington, VA

<http://events.internet2.edu/2005/spring-mm/>

<> Internet2 Workshops

+ CAMP Identity Management Workshop

15 - 17 November

San Diego, CA

<http://www.educause.edu/conference/nmi/2004/camp044/>

+ CAMP Enterprise Authentication Workshop

18 - 19 November

San Diego, CA

<http://www.educause.edu/conference/nmi/2004/camp045/>

+ Internet2/CANARIE Multicast Workshop

20 - 22 November

Halifax, Nova Scotia

<http://www.canarie.ca/conferences/advnet2004/multicast.html>

+ 2nd Quilt Regional Optical Networking Workshop

30 November - 2 December

MCNC in Research Triangle Park, NC

<http://www.thequilt.net/meetings/Dec-Fiber-Meeting/index.html>

+ Performance and Master Class Production Workshop

24 - 26 January 2005

Miami, FL

<http://events.internet2.edu/2005/NWS/index.html>

<> Internet2 Days

+ University of Arizona

4 November

Tucson, AZ

<http://computing.arizona.edu/internet2/internet2day.html>

+ Wichita State University

11 November

Wichita, KS

<http://www.hipecc.wichita.edu/internet2.html>

Hold an Internet2 Day for your Internet2 member organization. Technical

support for live demonstrations and informational materials are available.
For more information contact Marianne Smith <melser@internet2.edu> or see:
<http://apps.internet2.edu/host-Internet2-day.html>

<> Internet2 Related Events

+ Online Calendar

For a complete listing of events for and of interest to the Internet2 community, see the online Internet2 Calendar. Be sure the Internet2-related event you are holding or know about is listed at:

<http://events.internet2.edu/calendar/main.php>

+ SC2004

6-12 November

Pittsburgh, PA

<http://www.sc-conference.org/sc2004/>

+ National Association of Schools of Music Annual Meeting

20-21 November

San Diego, CA

<http://nasm.arts-accredit.org/>

+ Radiological Society of North America 2004

28 November-3 December

Chicago, IL

<http://www.rsna.org/rsna/>

+ Chinese American Networking Symposium 2004

30 November-2 December

Miami, FL

<http://www.cansouncil.org/>

+ Megaconference VI

9 December

Virtual Event

<http://www.megaconference.org/>

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Do you have a news item or event you'd like the Internet2 community to know about? Send a brief description, along with any related pointers, to <publications@internet2.edu>

To add a name to this list please send an email with the name of the list and the names and addresses of people to be added to <membership@internet2.edu>

To remove your name from this list, please email <membership@internet2.edu> with "remove" in the subject heading and include the name of the list by which

you received this message in the text of your reply email. For example: remove apps@internet2.edu or remove mbr-update@internet2.edu