



## **Internet2 (R) Members Update October 2004**

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

### ◇ Fall 2004 Internet2 Member Meeting

#### + Fall 2004 Internet2 Member Meeting Sets a Record

Record-setting attendance (735) at the Fall 2004 Internet2 Member Meeting was matched by a record number of technical and non-technical sessions and organized sessions (130). The start of the meeting was further enhanced by the appearance of Richard Perry, Governor of Texas, and David Dewhurst, Lieutenant Governor of Texas.

Out of the 735 attendees nearly 400 were from Internet2 universities and over 100 were from Internet2 corporate members, 77 were from international partners, and approximately 160 were from other research and educational organizations.

#### + Member Contributions

Internet2 would like to thank the University of Texas at Austin as host, and the significant sponsorship by members Cisco Systems, Global Crossing, Juniper Networks, Nortel Networks, Polycom, Sun Microsystems, and Qwest Communications and IXIA. In addition we'd like to thank the Integrated Media Systems Center (IMSC) at the University of Southern California for their production of the performance event. Each organization's generous contributions helped make the Fall 2004 Internet2 Member Meeting possible.

<http://events.internet2.edu/2004/fall-mm/sponsors.html>

#### + Comments Welcomed: Fall 2004 Internet2 Member Meeting Evaluation

The Member Meeting Program Committee wants your comments about the recent meeting. Your input is invaluable in helping us make these meetings responsive to member needs. The evaluation form is available at:

<http://events.internet2.edu/2004/fall-mm/meeting-evaluation.html>

Presentations:

<http://events.internet2.edu/2004/fall-mm/agenda.cfm?event=219>

Video-on-Demand of the netcast sessions:

<http://events.internet2.edu/2004/fall-mm/netcast.cfm>

◁ New Internet2 Land Speed Record Set

A team from Sprint Corporation and the Swedish University Network (SUNET) has set a new Internet2 Land Speed Record. The record was set using the same IPv4 protocols deployed throughout the global Internet today. The team successfully transferred over 1830 gigabytes of data in approximately 60 minutes across nearly 29,000 kilometers of networks at a rate of 4.31 gigabits per second--4000 times faster than a typical home broadband connection.

<http://lsr.internet2.edu>

◁ Spring 2005 Internet2 Member Meeting: Arlington, Virginia

Mark your calendars for the Spring 2005 Member Meeting scheduled for 2-5 May, at the Crystal Gateway Marriott Hotel, in Arlington, Virginia. The Internet2 website will begin posting further details of this meeting starting in January 2005.

+ Call for Participation: Spring 2005 Member Meeting Program Committee

Individuals who are interested in serving on the Spring 2005 Internet2 Member Meeting Program Committee are encouraged to contact Marianne Smith, Program Manager, Internet2 Member and Partner Relations <[melser@internet2.edu](mailto:melser@internet2.edu)>.

◁ Pew Internet & American Life Project Survey

The Pew Internet & American Life Project is surveying experts about the future of the Internet and Internet2 would very much like its members to participate in Pew's research. The survey asks participants to assess several predictions about the future impact of the Internet and to contribute thoughts about what will happen in the next 10 years. This is a confidential survey. When you start the survey, please use this personal identification number (PIN): 760

The Pew Internet & American Life Project will issue a report based on this survey later this year. Survey organizers hope the results will be useful to policy makers, scholars, and those in the information technology industry. The goal is to include material from this new survey in the predictions database.

<http://surveys.spss-sb.com/spssmr/survey/surveyentry.aspx?project=p3280003>

◁ Penn State and Internet2 Announce Release of Academic File-Sharing Open Source Code

Penn State and Internet2 announced the release of open source code for their collaborative software project, LionShare. Funded by a grant from the Andrew W. Mellon Foundation, LionShare is a secure, high-powered, peer-to-peer (P2P) file sharing technology designed for academia. The open source code will provide interested programmers and developers the opportunity to contribute valuable feedback and suggestions. At the same time, LionShare partners including Internet2, Simon Fraser University of Canada; and the Massachusetts Institute of Technology, will continue to fine-tune the project software which is slated for official beta release for universities and institutions in the first quarter of 2005. To learn more about LionShare and to access the new open source code - or to join the developers community, go to:

<http://lionshare.its.psu.edu/main/>

◁ Corporate Relations Update

+ Sun EduSoft Portfolio Pricing Program Announced

Internet2 and Corporate Partner Sun Microsystems, Inc. have signed an agreement by which Sun will offer university members an annual renewable subscription for nearly 100 Sun software products at a low and predictable price. The Sun EduSoft(TM) portfolio consolidates nearly 100 Sun enterprise software products, including Enterprise Directory Management; Application/Integration Servers and Messaging; Application Development; Security; Desktop Applications; Operating Systems; Systems Administration and Internetworking Technologies. Internet2 looks forward to creating similar agreements for the products and services provided by corporate members to encourage mutual collaboration and technology transfer.

For more information contact Kristen Hyland, Sun Microsystems, <[kristen.hyland@sun.com](mailto:kristen.hyland@sun.com)>.

<http://www.internet2.edu/services/sun.html>

#### <> Applications Update

##### + Transatlantic Howl!: Internet2 Multicast Poetry Event

Internet2, and several collaborators, will host a transatlantic poetry reading on 14 October at 2:00 pm EDT (GMT -4) honoring Allen Ginsberg and his epic poem HOWL. Poets will perform at venues in London, Paris, and across the United States in celebration of Ginsberg, the renowned poet and champion of human rights. This live, interactive event will be simultaneously streamed across JANET, Renater, and Internet2 advanced networks to audiences at each site. It will also be netcast to an Internet-wide audience for viewing with QuickTime, or Windows Media Player. Featured readers include Amiri Baraka, Anne Waldman, Anne Carson, and many more. Anne Waldman and Ann Doyle, Internet2 Program Manager for Arts and Humanities Initiatives, will serve as MCs for this event.

<http://arts.internet2.edu/howl.html>

##### + Internet2 Member Discount for Fall VON 2004

In an effort to bring the Internet2 and VON communities closer together, new Internet2 corporate member Pulver.com is extending its commitment to Internet2 by offering Internet2 university members a discounted registration rate for the Fall VON 2004 Conference and Expo taking place 18-21 October at the Hynes Convention Center in Boston, MA. Internet2 university members are invited to register for the "Full Conference" package at the rate of \$600 by visiting: <http://www.pulver.com/von/register.html> Register with the priority code "INTERNET2".

<https://mail.internet2.edu/wws/arc/wg-voip/2004-08/msg00002.html>

##### + MegaConference VI Call for Participation

Please submit your proposals for interactive presentations as part of MegaConference VI, 9 December, now. This year's MegaConference is designed to emphasize interactive and global videoconferencing. The successful proposal should entice audience participation in the form of Q&A, direct participation, contribution or other dynamic interaction. Additionally, co-presenters from more than one site are encouraged. You are invited to include examples (tapes or streams) of previous interactivity as part of the real-time presentation. Prior arrangements for participation, made in cooperation with other sites, are welcomed. Presentations may include musical, dramatic, or other performances. Presentations should be approximately 15 minutes in length. The deadline for proposals is 29 October. Early submissions are encouraged.

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

Proposal submissions: <http://www.megaconference.org/call>

#### <> International Update

##### + Internet2 and IEEAF Agreement

At the Fall 2004 Internet2 Member Meeting, Internet2 and the Internet Educational Equal Access Foundation (IEEAF) announced a formal agreement to work in partnership with the goal of extending regional, national, and international networking infrastructure to reduce the global disparities in access to high-performance Internet connectivity and related resources. The agreement builds on a track record of successful collaboration between IEEAF and Internet2, including the establishment and subsequent management of high-performance transatlantic network circuits between Amsterdam and New York City dedicated to the research and education (R&E) community. Also, just this past June, the IEEAF's Transpacific Link connecting Pacific Wave in Seattle to the Tokyo Lambda Exchange (T-LEX) became active.

<http://www.ieeaf.org>

##### + Astronomers Demonstrate a Global Internet Telescope

On 22 September, European and US collaborators demonstrated the use of advanced networks to link the radio telescopes electronically in real-time to perform radio astronomy experiments. The 20-hour long observations used the European VLBI Network (EVN) and involved radio telescopes in the UK, Sweden, the Netherlands, Poland, and Puerto Rico. The combined resolution of the antennas was at least 20 milliarcseconds which is about 5 times better than the Hubble Space Telescope. Including the antenna at Arecibo, in Puerto Rico, also increased the sensitivity of the telescope array by a factor of 10. Each telescope was connected to its country's advanced research network, and the data routed at 32 Mbps per

telescope across GEANT, the pan-European research network; SURFnet, the Dutch network, and Internet2's Abilene Network. The data were then delivered to the Joint Institute for VLBI in Europe (JIVE), the central processing facility for the EVN in the Netherlands. There, the 9 Terabits of data were fed in real-time into a correlator and combined to deliver the final data directly to the astronomers. For more information see:

[http://www.evlbi.org/evlbi/first\\_science/first\\_science.html](http://www.evlbi.org/evlbi/first_science/first_science.html)

+ International Activities at Fall 2004 Internet2 Member Meeting

To find the final programs and all presentations from the International Task Force meetings and all international activities that took place during Member Meeting, please visit:

<http://international.internet2.edu/resources/events/2004/FallMMIntfl.html>

◁ Middleware Update

+ MACE-MLIST Working Group

The MACE-MLIST Working Group has prepared a Survey of Mailing List Administrators in order to:

- learn what features are most important (or least important) to higher education
- ensure that at least one open source product meets our needs
- publish the community's requirements for the benefit of other product vendors

Responses are encouraged and should be completed and returned by Friday, 15 October 2004. The Survey and further information is available at:

<http://middleware.internet2.edu/mlist/docs/internet2-mace-mlist-campus-survey-200409.html>

+ Shibboleth

International interest in Shibboleth continues to solidify. The UK's JISC is hosting a Shib "install fest" in London the week of October 18th with assistance from the Internet2 Shib development team. Australia has begun discussions about having a Shib "install fest" as part of a local middleware CAMP planned for later this year.

+ VidMid-VC Working Group

The VidMid-VC Working Group is working on developing an Extensible Messaging and Presence Protocol (xmpp) extension to H.350, for future submission to the ITU as an extension to the H.350 standard. H.350 defines directory services architecture for multimedia conferencing for H.323, H.320, SIP and generic protocols.

Information about XMPP is available at:

<http://www.ietf.org/html.charters/xmpp-charter.html>

Information about H.350 is available at:

<http://middleware.internet2.edu/video/docs/H.350/>

Further information will be available soon on the working group page at:

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

+ National Science Foundation Middleware Initiative (NMI).

- Register Now for the Upcoming CAMP Identity Management and Enterprise Authentication Workshops  
Join us for the upcoming CAMPs focused on Identity Management (15-17 November) and Enterprise Authentication (18-19 November) in San Diego, California. To register and find out more information, refer to:

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

- Upcoming Medical Middleware CAMP

Save the date of 8 - 11 February 2005, for the upcoming CAMP Med: Identity and Access Management for Medical Applications in Tempe, Arizona. More information will be available in November at the NMI-EDIT website:

<http://www.nmi-edit.org>

◁ Security Update

#### + SALSA-Netc Working Group

SALSA has formed a new working group called "Netc" (pronounced "Net-cetera") to focus on issues that would benefit from promptly delivered position papers, or are too limited in scope to justify a separate group. Topics will be limited to those that will ultimately form architectural vision and also have urgency and interest to the Higher Education community.

<http://security.internet2.edu/netc/>

#### <> End-to-End Performance Initiative (E2Epi) Update

The E2Epi organized five sessions at the Fall 2004 Internet2 Member Meeting; summaries of these sessions and links to presentations can be found at:

<http://e2epi.internet2.edu/FMM04/>

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

E2E piPEs made the performance measurement points (PMPs) installed on the Abilene network publicly accessible to research and educational institutions worldwide. Six other institutions/networks have installed publicly accessible PMPs, including some participants in Switzerland, Brazil, and Japan

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

#### + Measurement Tools in Use

All four piPEs tools released new code this month:

-- Fourteen locations downloaded the code of the alpha release of the "glue" software in September:

<http://e2epi.internet2.edu/pipes/>

-- Thirty-eight locations downloaded Version 1.1b of BWCTL: <http://e2epi.internet2.edu/bwctl/>

-- Twenty-one locations downloaded Version 1.6f of OWAMP: <http://e2epi.internet2.edu/owamp/>, and

-- Sixty-five locations downloaded Version 3.0.20 of NDT: <http://e2epi.internet2.edu/ndt/>

#### <> Internet2 Showcases and Spotlights

NDT (Network Diagnostic Tool) has become an integral component in the E2E piPEs framework and will be accessible via the upcoming release of the Internet2 Detective. Studies show that the majority of network performance problems occur in or near the users' desktop/laptop computer. NDT is designed to identify several of the most commonly occurring end-to-end problems, such as duplex mismatch and various hardware failures. Test results for both novice users and network engineers are available to assist in problem resolution. An overview of the tool is available, as are links to publicly accessible servers via the NDT home page.

<http://e2epi.internet2.edu/ndt/>

For more Internet2 showcases, see:

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

#### + Member Spotlight: Joanne Hugi

Joanne Hugi, known throughout the Internet2 community for her leadership in regional and national networking, is retiring following three decades of service at the University of Oregon (UO). Hugi served most recently as Associate Vice President for Information Services at the UO Computing Center. Hugi served on the Network Planning and Policy Advisory Council for Internet2. She also served on the board of EDUCAUSE, including serving as chair in 1999-2000, and was a long-time member of Northwest Academic Computing Consortium (NWACC), serving as chair from 1999 to 2004, as well as serving on the board for several other organizations.

For more member spotlights, see:

<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](mailto:publications@internet2.edu)>.

#### <> Request for Internet2 Website Feedback

Internet2 is in the process of soliciting ideas for improving our web space. The ideas and contributions of members are extremely important to us. Please send us your feedback on what features you like dislike and improved. Send your ideas to Louis Biely, Web Services Manager at <[louis@internet2.edu](mailto:louis@internet2.edu)>. Comments will be confidential.

<> Internet2 Employment Opportunities

Internet2 currently operates the national research and education network, Abilene, the Manhattan Landing (MAN LAN) international exchange point, and the FiberCo holding and assignment vehicle for dark fiber. Internet2 is seeking a director to oversee this ensemble of advanced networking services, who will report to the Executive Director, Deployment and Infrastructure Delivery (DID), and will direct all operational aspects of these projects including current technology, finances, and partnership coordination. This position will be located in the Ann Arbor, Michigan headquarters of Internet2 and there will be frequent national and occasional international travel. Internet2 is a 501.C.3 not-for-profit organization and equal opportunity employer. Details of this position and other openings can be found at:  
<http://www.internet2.edu/about/jobopportunities.html>

<> New Internet2 Members

+ Corporate Members

- ADVA Optical Networking

<http://www.advaoptical.com>

- Dell Inc.

<http://www.dell.com/>

- LifeSize Communications

<http://www.lifesize.com/>

- Marratech AB

<http://www.marratech.com/>

- Red Hat Inc.

<http://www.redhat.com/>

- Sprint

<http://www.sprint.com/>

<> Future Internet2 Events

+ Transatlantic Howl! A Dedication To Allen Ginsberg

14 October, 2:00 pm EDT (UTC-4)

Virtual Event

<http://arts.internet2.edu/howl.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.wichita.edu>

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>

+ Grant Makers in the Arts 2004 Conference  
17-20 October  
Cleveland, OH  
[http://www.giarts.org/conf\\_04/conf04\\_index.html](http://www.giarts.org/conf_04/conf04_index.html)

+ Voice on the Net (VON) - Fall 2004  
18 - 21 October  
Boston, MA  
<http://www.pulver.com/von/>  
Internet2 university members are invited to register for the VON full conference package at the rate of \$600 by registering with the priority code INTERNET2.

+ EDUCAUSE 2004  
19 - 22 October  
Denver, CO  
<http://www.educause.edu/conference/annual/2004/>

+ ACUTA Fall Seminars  
24 - 27 October  
St. Louis, MO  
<http://www.acuta.org/events/seminars/fse04.cfm>

+ New Hampshire Telecommunications and Broadband Summit  
27-28 October  
Nashua, NH  
[http://www.nheconomy.com/nheconomy/dredweb/main/index.php?ID=179&ch\\_table=link7&setdb=dredweb](http://www.nheconomy.com/nheconomy/dredweb/main/index.php?ID=179&ch_table=link7&setdb=dredweb)

+ SC2004  
6 - 12 November  
Pittsburgh, PA  
<http://www.sc-conference.org/sc2004/>

+ Chinese American Networking Symposium 2004  
30 November – 2 December  
Miami, FL  
<http://www.canscouncil.org/>