



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

- ◇ National Internet2 Day
- ◇ Spring 2004 Internet2 Member Meeting
- ◇ Internet2 Detective News
- ◇ Internet2 and ESnet Peering Upgrade
- ◇ H.323 Videoconferencing Workshop
- ◇ Winter 2004 Joint Techs Recap
- ◇ International Update
- ◇ Middleware Update
- ◇ End-to-End Performance Initiative (E2Epi) Update
- ◇ Applications Update
- ◇ Abilene Update
- ◇ Member to Member Announcements
- ◇ Internet2 K20 Initiative Update
- ◇ New Internet2 Members
- ◇ Future Internet2 Events
- ◇ Internet2 Days
- ◇ Showcase and Spotlight Opportunities
- ◇ Internet2 Related Events

The monthly member updates are archived at: <http://members.internet2.edu/memberupdates/>

### **◇ National Internet2 Day – 18 March 2004**

Mark your calendar for the first-ever virtual National Internet2 Day on Thurs., March 18 -- the first two hours will be broadcast in HDTV! This daylong netcast event will feature a series of virtual presentations and demonstrations across several disciplines as well as a jazz performance event. National Internet2 Day will demonstrate the value of your institution's investment in Internet2, share the potential and reality of advanced network applications, and generate additional awareness of Internet2 capabilities across our member community. Additionally, more than 35 Internet2 member university campuses are participating in this virtual event by hosting local National Internet2 Day activities, with presentations by campus-based faculty to complement the netcast national speakers. For more information including the latest agenda of topics and speakers, visit:

<http://events.internet2.edu/2004/Internet2Day/>.

### **◇ Spring 2004 Internet2 Member Meeting**

The Spring Internet2 Member Meeting is fast approaching! For information about registration, lodging, travel, and the program see:

<http://events.internet2.edu/2004/spring-mm/>

### **+ Call for Sponsors**

We are seeking sponsorship contributions for the evening welcome reception, which will be held at the hotel the evening of Monday, April 19. In addition, we are seeking support for meeting lunch and refreshment breaks on April 20 and 21. Sponsors will be acknowledged via signage at the event site, in the published meeting program, and on the meeting web site. We are open to suggestions regarding other ways to acknowledge generous support. For more information please contact Ellen Vaughan

<[evaughan@internet2.edu](mailto:evaughan@internet2.edu)>.

#### + Corporation Presentation Room Submission Deadline Extended

A Corporation Presentation Room Pilot will be introduced at the Spring 2004 Member Meeting. All Internet2 corporate members are invited to submit proposals for side meetings in the corporation presentation room to showcase engagement with the Internet2 community. The session format is at the discretion of the presenter. Expected formats include: briefings, informal discussions, case studies, product/technology directions and or customer feedback sessions. Presenters will be charged a \$200 fee to cover costs associated with these presentations. Proposals must contain the title; organization name; brief abstract; presenter name, title, and email address; and a contact name and email address. Send proposals to <evaughan@internet2.edu> by Friday, March 12, 2004. Notification will be sent by Monday March 15, 2004. For more information please contact Ellen Vaughan <evaughan@internet2.edu> or see: <http://events.internet2.edu/2004/spring-mm/corp-presentation.html>

#### ◁ H.323 Videoconferencing Workshop, Arlington, VA

On 22 April 2004 in Arlington, VA, the Internet2 Commons will hold a workshop for those interested in supporting H.323 multipoint videoconferencing. Videoconferencing experts from Internet2 member institutions will introduce a broad framework for understanding H.323 videoconferencing over advanced networks. The day-long training will cover topics such as: H.323 basics; gateways and gatekeepers; the new H.350 directory standard; introduction to SIP; room set-up basics; tools and troubleshooting; hands-on equipment demonstrations; and more. This training will certify you as a Site Coordinator for the Internet2 Commons. The fee is \$100. To register or to learn more, visit: <http://commons.internet2.edu/train/200404/>

#### ◁ Internet2 Detective News

Internet2 Detective users are encouraged to upgrade to the most recent release (version 3.1). Servers that support the connectivity and bandwidth tests in earlier versions will be decommissioned on 31 March 2004. Also, new documentation on how to use the Internet2 Detective with several types of personal firewalls is now available. For the latest news and to download the latest version of the Internet2 Detective, go to: <http://detective.internet2.edu/>

#### ◁ Internet2 and ESnet Peering Upgrade

Internet2 and the Energy Sciences Network (ESnet) are making peering between the national lab and research university communities more robust by upgrading the three connections in Sunnyvale, Calif. (OC12c to OC48c), Chicago (OC12c to OC48c) and New York (1 GigE to 10 Gbps at ManLan). Additionally, Internet2 and ESnet are adding a peering point in Atlanta. With the upgrades already complete in Sunnyvale and Chicago, the complete upgrade is expected by the summer of 2004. As a result, users will be able to conduct high-speed transmission control protocol (TCP) flows – in excess of 900 Mbps -- between Abilene and ESnet on a regular basis. For more information about domestic peer networks, visit: <http://abilene.internet2.edu/peernetworks/domestic.html>

#### ◁ Winter 2004 Joint Techs Recap

##### + Event Sponsorship

Juniper Networks sponsored the Joint Techs and APAN reception at the Joint Techs Workshop. We gratefully acknowledge Juniper's generous support. For information on event sponsorship opportunities, please contact Ellen Vaughan <evaughan@internet2.edu>.

#### ◁ International Update

##### + International Activities During Spring 2004 Member Meeting

Mark your calendars! International Task Force (ITF) meetings will be taking place on Monday, April 19 (all day) at the Crystal Gateway Marriot in Arlington, VA. The ITF is made up of representatives from each of the organizations with whom Internet2 has partnered through a Memorandum of Understanding (MoU). These meetings serve as the forum for discussion of international issues relevant to the development of a high-performance, leading-edge global network infrastructure, advanced technologies and applications for research and education around the world. For more information on the ITF meetings and related international activities during the Spring Member Meeting, please visit: <http://international.internet2.edu/resources/events/2004/SpringMMintl.html>

+ Special International Workshop: Extending the Reach of Advanced Networking

Following the Spring Member Meeting, on 22 April, Internet2 is hosting an international workshop, "Extending the Reach of Advanced Networking." The aim of this workshop is to bring together international partners and members of the Internet2 community with a number of individuals from various development, aid and science agencies in Washington, DC and elsewhere. During the workshop, we hope to discuss opportunities for collaboration and to highlight projects and approaches from the research and education networking community on getting to and addressing the challenges in places where advanced networking is still needed. For more information, please contact Ana Preston <apreston@internet2.edu>.

<> **Middleware Update**

+ Shibboleth

Shibboleth 1.1 is successfully in use at Penn State University for students registering for Napster 2.0 Premium Service. To view the press release:

<http://archives.internet2.edu/guest/archives/I2-NEWS/log200401/msg00005.html>

Upcoming Shibboleth release - Shibboleth v1.2 is expected to be released in March, and it will be backwards compatible with v1.1. Major changes include support of Apache 2.x and IIS 6 as target platforms, and the introduction of multi-federation support.

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

The UK Joint Information Systems Committee (JISC) Call for Projects in Core Middleware has named Shibboleth as one of its areas of emphasis. This reflects the impact Shibboleth is having on current and future IT architectures across the R&E community, internationally as well as in the US. Further examples of this include broad Shibboleth implementations among the R&E sectors in Switzerland, Canada, Finland, and Australia, among others.

[http://www.jisc.ac.uk/index.cfm?name=c01\\_04](http://www.jisc.ac.uk/index.cfm?name=c01_04)

+ NMI - Presentations at the EDUCAUSE Midwest Regional Conference

At the EDUCAUSE Midwest Regional Conference in Chicago on 21-23 April, NMI-EDIT will feature both track and pre-conference sessions. Renee Frost will present "Shibboleth: Federated Identity Management." And Joel Cooper from Carleton College and Brendan Bellina from the University of Notre Dame will lead a pre-conference seminar on "Enterprise Directories: An Implementation Roadmap". For more information, refer to the full program at:

<http://www.educause.edu/conference/mwrc/2004/>.

+ CAMP Directory Workshop: Proceedings Now Online

If you missed the CAMP Directory Workshop held last month in Tempe, AZ, you can now review the proceedings online at:

[http://www.educause.edu/meeting/proceedings\\_sessions.asp?meeting=CAMP041](http://www.educause.edu/meeting/proceedings_sessions.asp?meeting=CAMP041)

+ Directories

The MACE-Dir Group's subgroup has identified the subset of components and features defined in the Group Tools Architecture to be implemented in version 1 of the Grouper package. A roadmap for production of version 1 is almost finalized. Contributed implementations of some of the other components are being solicited from member institutions. Campuses contemplating adoption of Grouper are also asked to participate by critically assessing the detailed specifications that are now being developed.

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

+ 3rd Annual PKI R&D Workshop, 12- 14 April 2004 in Gaithersburg, MD

This workshop considers the full range of public key technology used for security decisions. Public Key Infrastructure (PKI) supports a variety of functionalities including authentication, authorization, identity (syndication, federation and aggregation) and trust. Registration opening soon at:

<http://middleware.internet2.edu/pki04/>

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

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

E2Epi is deploying 2-3 measurement nodes for a demonstration that involves interoperability between E2E piPEs and MonALISA (Monitoring Agents using a Large, Integrated Services Architecture) and uses CERN as an endpoint. The demonstration will be presented at two workshops at CERN in March. For more information on MonALISA, see: <http://monalisa.cacr.caltech.edu/>.

+ OWAMP/BWCTL (One-Way Active Measurement Protocol/Bandwidth Control)

As follow-up to discussions at the Joint Techs Workshop, team members arranged to have BWCTL deployed in Japan/Korea (for a Japanese professor) and also at the Japanese NOC; BWCTL and OWAMP deployed at Onsala (Sweden) and Haystack (Massachusetts), and on GEANT (in between); BWCTL and OWAMP deployed at 2+ locations (edge and inside) at the Ohio, North Carolina, and San Diego ITECs. For information on OWAMP, see: <http://e2epi.internet2.edu/owamp/>; for information on BWCTL, see: <http://e2epi.internet2.edu/bwctl/>

+ Workshops

Materials related to a Performance Measurement Architecture Workshop, held at San Diego Supercomputer Center in December 2003, are available online at: <http://e2epi.internet2.edu/WK03/index.html>

+ Peer-to-Peer (P2P) Working Group

With colleagues from APAN, the P2P Working Group co-hosted an application technology workshop directly following the Joint Techs Workshop in Hawaii. Minutes from this workshop can be found at: <http://p2p.internet2.edu/minutes-index.html>.

+ Internet2 Technology Evaluation Centers (ITECs) Activity Reports

Activity Reports for the four ITECs (ITEC Ohio, North Carolina ITEC, San Diego ITEC, and Texas A&M Voice over IP ITEC) are now online at: <http://www.internet2.edu/about/itecs/itec-reports.html>

+ E2E Sessions at the Internet2 Spring Member Meeting

The E2Epi is hosting six sessions at the Internet2 Spring Member Meeting. Information on the sessions is posted at: <http://e2epi.internet2.edu/SMM04/index.html>.

<> **Applications Update**

+ Applications in Action at the 2004 National Internet2 Day

The National Internet2 Day on 18 March 2004 will feature several applications-related presentations and demonstrations. A collaboration technologies overview will highlight ongoing activities in the Internet2 Commons and in the integrated communications and connectivity arena. A presentation on Case Western Reserve University's MediaVision courseware "Enhancing Education Using Streaming Technology" will also feature a live demonstration of this application in use in the classroom. A set of presentations on science and research will include an overview of applications of advanced networking to eVLBI (Electronic Transmission of Very Long Baseline Interferometry), high energy and nuclear physics, and earthquake engineering. A segment on using Internet2 to teach will feature case studies on uses of distance learning and remote instrumentation in the classroom. A live jazz performance will provide a musical interlude between sessions, while demonstrating the potential of advanced networking in delivering live performance events. The National Internet2 Day will conclude with a performing arts panel discussion featuring topics such as producing remote master classes, presenting multi-site performances, and providing educational outreach in the arts and humanities. Several of these applications have been featured recently on the Internet2 web site. To learn more about some of these upcoming presentations, refer to the following web page:

<http://apps.internet2.edu/Internet2Day2004.html>

+ Looking at Science Through New Eyes: NSF and AAAS Launch Second Visualization Challenge

Scientists generally aim to draw the "big picture" of a phenomenon using underlying patterns from disparate data. But that big picture more often than not emerges as a jumble of lines and dots on a graph, unintelligible to the average person, no matter how compelling the story it is supposed to tell. To recognize excellence in using new media and established graphic arts to convey the excitement of scientific

discovery, the National Science Foundation (NSF) and the journal Science, published by the American Association for the Advancement of Science (AAAS), are co-sponsoring the second annual Science and Engineering Visualization Challenge. This international contest recognizes outstanding achievements by scientists, engineers, visualization specialists and artists who are innovators in using visual media to promote understanding of research results and scientific phenomena. Submissions are due 31 May 2004: <http://www.nsf.gov/od/lpa/newsroom/pr.cfm?ni=47>

+ Announcing ViDe Video Conferencing Cookbook, version 4

Since its initial availability in 1998, the ViDe Video Conferencing Cookbook has provided sound and timely technical information in a useful and user-friendly way to support the deployment of IP voice and video conferencing. Version 4, now online, expands on this with the introduction of specialized information for the K-12 community and the initiation of the first translations of the Cookbook into different languages.

For more details -

Announcement URL: [http://www.vide.net/ViDe\\_Cookbook\\_v4\\_1.pdf](http://www.vide.net/ViDe_Cookbook_v4_1.pdf)

ViDe Web site: <http://www.vide.net> (announcement on main page; Cookbook under "Projects")

+ ViDe Digital Video Workshop

Internet2 is a co-sponsor of the 6th SURA-ViDe Digital Video Workshop, 22-25 March 2004. For more information and registration see:

<http://www.vide.net/conferences/spr2004>

<> **Abilene Update**

+ New Sponsored Educational Group Participants (SEGPs)

The K20 Initiative is happy to welcome South Carolina, New Jersey, and Maine as the newest additions to the Abilene SEGP program. There are now 33 state networks connected to Abilene. Here is a link to a map showing and complete list of current SEGPs:

<http://abilene.internet2.edu/community/segp/>

<> **Member to Member Announcements**

+ ConferenceXP

Microsoft Research, an Internet2 corporate partner, is strongly focused on promoting collaboration and developing partnerships within the Internet2 community in order to advance networking technology and applications used on the greater Internet. Cooperation with a number of Internet2 members helped develop ConferenceXP; a platform for collaborative applications that integrates advanced audio, video, and network technologies to seamlessly connect multiple participants in a rich environment for conferencing, instruction, and collaboration. The ConferenceXP technology is available without charge.

<http://www.conferencexp.net/community/>

<> **Internet2 K20 Initiative Update**

+ K20 Initiative FAQ

The Internet2 K20 Initiative has produced a new FAQ aimed at the K20 audience. Please send any feedback to Louis Fox <[lfox@internet2.edu](mailto:lfox@internet2.edu)> or James Werle <[jwerle@u.washington.edu](mailto:jwerle@u.washington.edu)>.

[http://k20.internet2.edu/about/k20\\_faq.html](http://k20.internet2.edu/about/k20_faq.html).

<> **New Internet2 Members**

+ Corporate Members

Force 10 Networks - <http://www.force10networks.com/>

Thomson Corporation - <http://www.thomson.com>

+ Regular Members

University of Medicine and Dentistry of New Jersey - <http://www.umdnj.edu>

<> **Future Internet2 Events**

+ Spring 2004 Internet2 Member Meeting: Arlington, Virginia, 19-21 April 2004

+ Summer Joint Techs Workshop, Columbus, Ohio, 18-22 July 2004 - hosted by the Ohio Valley Internet2 Consortium

+ Fall 2004 Internet2 Member Meeting: Austin, Texas, 27-30 September 2004

<> **Internet2 Days**

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/Internet2-Days.html>

+ Penn State - Internet2 Day

2-3 March 2004

+ Marquette University - Internet2 Day

5 March 2004

<http://www.marquette.edu/pages/home/its/news/internet2/>

+ National Internet2 Day

18 March 2004

<http://events.internet2.edu/2004/Internet2Day/>

+ Virginia Commonwealth University Emerging Technologies Day

31 March 2004

<http://www.at.vcu.edu/etech/etday/>

+ Brandeis University - Internet2 Day

8 April 2004

<> **Showcase and Spotlight Opportunities - Projects and People**

A Showcase on the Internet2 Web site is a great way to highlight the milestones, events, collaborations and efforts that are a result of your work in the advanced networking community. You are also encouraged to submit a profile of anyone in the Internet2 community whose efforts merit notice. Include a brief description (less than 100 words), all appropriate links and images, and contact information. If you have suggestions about projects, people or news that might be featured, please contact Adam Csillag

<acsillag@internet2.edu>.

<> **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>

If you are holding an event of any kind related to Internet2, we will be glad to assist members with resources such as printed publications, equipment or speakers. Please contact Marianne Smith for more information <melser@internet2.edu>.

+ Global Grid Forum

9-12 March

Berlin, Germany

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

+ Neuroscience Symposium – University of Pennsylvania

15 March

Philadelphia, PA

<http://www.med.upenn.edu/ins>

+ CENIC 2004 Annual Conference

15-17 March

Los Angeles, CA

<http://www.cenic.org/CENIC2004/index.htm>

+ 6th Annual SURA/ViDe Digital Video Workshop  
22-25 March  
Indianapolis, IN  
<http://www.vide.net/conferences/spr2004>

+ Missouri Life Sciences Week 2004  
5-9 April  
Columbia, MO  
<http://lifesciencesweek.missouri.edu/>

+ Broadband Summit 2004  
19-20 April  
Washington, DC  
<http://bbsummit.web.aplus.net/>

+ Megaconference Junior  
6 May  
Virtual Event  
<http://megaconferencejr.cciu.org/>