



June 9-11, 2004

Hosted by Ryerson University, Toronto, Canada

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CANARIE



RYERSON UNIVERSITY

The 4th Access Grid™ (AG) Retreat is being held June 9–11 in Toronto, Canada. This year's meeting is being hosted by Ryerson University in their Rogers Communication Center, an ideal venue for collaboration and interaction.

The Access Grid is an ensemble of resources including multimedia large-format displays, presentation and interactive environments, and interfaces to Grid middleware and to visualization environments. These resources are used to support group-to-group interactions across the Grid. For example, the AG is used for large-scale distributed meetings, collaborative work sessions, seminars, lectures, tutorials, and training. The Access Grid began as a community effort in terms of development, support, education, and training; and it continues to grow as a result of this approach. The AG Retreats, an annual tradition, reflect this community involvement.

The AG Retreats provide an interactive forum for Access Grid community—including developers, node operators, and users—to share recent experiences and research findings, to present ideas for future AG technical directions, and to train and educate AG newcomers. Participants depend on the AG Retreats for updates on topics ranging from AG collaboration experiences to node installation and troubleshooting to AG development directions. The AG Retreats are critical to the continued development, utility, and improvement of AG.

The format of the retreat is a two-day program including invited talks, contributed presentations, panel discussions, and birds-of-a-feather meetings. This year, the retreat scope has been expanded to accommodate the increasingly diverse interests of the global AG community.

As a special feature, Day 1 of the AG Retreat 2004 has been designated as the “AG Showcase”—a full day of the most interesting, unique, creative, or practical applications of the Access Grid Toolkit. The AG Showcase will include presentations and demonstrations. Day 2 and Day 3 (June 10 and 11) of this year’s retreat will include hands-on working sessions, interactive panel discussions, special-interest group breakouts, and visionary keynotes. The content will focus on current AG practices and applications, future technical directions, and collaborative project experiences. The program will run in two parallel tracks: one focused on AG developer issues, and one focused on AG operations and use.

Detailed Program/Proceedings ([here](#))

Programs at a Glance:

Showcase Program ([pdf](#))

Retreat Program ([pdf](#))

AG Retreat 2004 Organizing Committee at ag2004@accessgrid.org for more information or inquiries.



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[June 9, 2004 Access Grid Showcase](#)

[June 10, 2004 Access Grid Retreat DAY ONE](#)

[June 11, 2004 Access Grid Retreat DAY TWO](#)

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IMPORTANT REMINDER: Only this year's Showcase will be broadcast over the Access Grid. Current details available soon through NCSA AGScheduler [here](#). inSORS will be providing the AG equipment and operations for this event. We invite any AG node to participate in any portion of the Showcase sessions. HOWEVER, we may request a reduction in the the amount of incoming streams if needed.

| [june 9](#) | [june 10](#) | [june 11](#) |

June 9, 2004 Access Grid Showcase

8:00 9:00
Registration

9:00 9:15
Welcome - Ron Rankine, Ryerson University

9:15 9:30
Opening Remarks - Rick Stevens, Argonne National Lab/University of Chicago

9:30 10:15

[Art on the Grid](#) - Paul Mercer, University of Alaska Fairbanks

10:15 10:30 Coffee Break

10:30 11:15

[Scientific Workspace of the Future](#) - Thomas Uram, Argonne National Lab/University of Chicago

11:15 12:00

High Quality Video Service Demonstration - SangWoo Han / JongWon Kim, Gwangju Institute of Science and Technology

12:00 1:30 Lunch

1:30 2:15

[Advanced Biomedical Collaboratory](#) - Fred Dech, University of Chicago

2:15 3:00

Impossible Skys - Tim Jackson, Ryerson University

3:00 3:15 Coffee Break

3:15 4:00

[Fusion Collaboratory](#) - Ti Leggett, Argonne National Laboratory

4:00 4:30

Multicast Experiences - Michael Murphy, Ryerson University

4:30 5:00

Karaoke on the Grid - Kazuyuki Shudo, Grid Technology Research Center National Institute of Advanced Industrial Science and Technology (AIST)

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| [june 9](#) | [june 10](#) | [june 11](#) |

June 10, 2004 Access Grid Retreat DAY ONE

Thursday, June 10

Plenary

8:30am-9:00am

Rick Stevens
Argonne National Laboratory
[Welcome](#)

9:00am-10:00am

Alan Blatecky (alan@sdsc.edu)
RENCI
[Plenary Keynote - Collaborative Technologies: The Next Generation](#)

Technology drivers (computers, networks, data) coupled with scientific applications is beginning to make collaborative

technologies such as AG useful and effective. However, up to this point, the primary focus and efforts in these collaborative technologies have been technical in nature. It is now appropriate to broaden the base of collaborative technology developers to include a wide range of interdisciplinary expertise from the arts, humanities, economics and social sciences to not only mature collaborative technologies, but to address the tough issues of effective human interactions and communications.

10:30am-11:00am

Ivan Judson (judson@mcs.anl.gov)

Argonne National Laboratory

[Access Grid Toolkit Roadmap](#)

The Access Grid Toolkit has been out for only a year, and the adoption of the software has been remarkable. The past year has seen a large part of the community migrate to the new software; over the same period the AG Toolkit has increased in usability, reliability and functionality.

This talk will present the roadmap for the Access Grid Toolkit over the next few releases of the software, through quarter 3 of 2005. The presentation is intended to stimulate discussion in the community, identify where developer opportunities exist, and show the users what features will be coming.

4:30pm-5:30pm

Rick Stevens

Argonne National Laboratory

AG Community Roundtable - AG Future Directions

(No slides used.)

5:30pm-6:00pm

Special Interest Group Sessions

(Reports provided during Program Sessions on June 11, 2004)

Ivan Judson, Tom Uram

#1: Hot Topics for AG Toolkit Development

Jennifer Teig von Hoffman, Jim Miller

#2: Documentation for the Access Grid

Mary Fritsch, Jackie Kern

#3: Conducting Productive AG Sessions

Bob Olson, Shannon Schraegle

#4: Troubleshooting the AG

Thursday, June 10

Track One - AG Operations

11:00am-11:30am

Terry Disz

Argonne National Laboratory

[Scientific Workspaces of the Future](#)

The Scientific Workspaces of the Future project is a partnership between technology developers and end users to deploy and further develop next generation high-end collaborative and network-based scientific visualization tools and systems designed to meet the specific needs of distributed applications communities. The initial application foci has been the atmospheric modeling and simulation community and computational molecular biology community. This talk will present the results of two years of close interaction with these application communities.

11:30am-12:00pm

Dioselin Gonzalez (dioselin@purdue.edu)

Purdue University

[AG Collaborations – Collaborative Virtual Environments over the AG](#)

We present the current state of the first phase in a research project in the area of design and implementation of a framework for Collaborative Virtual Environments (CVEs). The long term objective is to create a toolkit that provides routines and functions that can be added to existing Virtual Reality (VR) applications in order to have them run in geographically distant Access Grid™ (AG) nodes. During the first phase, specific VR applications have been developed to run as shared applications for the AG.

1:00pm-1:30pm

Mike Galich

Jim Miller (jmiller@insors.com)

inSORS

[Partner Perspectives – inSORS](#)

inSORS has seen major advancements in both its customer base and products and services in the previous 12 months. Jim Miller of inSORS will provide interesting examples of customer AG usage. From the end user point of view, the presentation will identify some features and functions of the AG that have proven to be effective in collaboration projects. A summary of inSORS' latest software enhancements and AG2.0 integration will also be presented.

1:30pm-2:00pm

Todd Needham

Microsoft

[Partner Perspectives – Microsoft Research](#)

2:00pm-2:30pm

Jonathan Tyman (tyman@internet2.edu)

Internet2

[Partner Perspectives – Internet2 Commons Update](#)

The Internet2 Commons promotes and facilitates remote collaboration throughout the Internet2 research and education community. Working toward interoperability and sustainability in the field of collaboration technologies, the Commons aims to connect corporate, government and educational members so that community needs are met by appropriate solutions. There is practical support for widely deployed H.323, emerging desktop tools, and advanced technologies like AG. There is expectation that these can complement one another, leading to global adoption of videoconferencing and collaboration tools.

2:30pm-3:00pm

Ron Rankine (rrankine@ryerson.ca)

Ryerson University

AG Showcase Summary Sessions

(No slides used.)

3:30pm-4:00pm

Stephenie McLean (mclean@ncsa.uiuc.edu)

NCSA/UIUC

[AG Collaborations – Minority Serving Institutions \(MSI\)](#)

Update

In July 2003, a Minority Serving Institutions AG Initiative was launched. This presentation will discuss some of the challenges and successes related to developing a virtual community using the Access Grid. This session will focus on how The Minority Serving Institutions (MSI) Consortium has worked to engage MSIs to be full participants in the high performance community through the use of the access grid. The session will further provide time for discussion and will make some recommendations to other emerging high performance communities that are looking to build the capacity to successfully implement this technology.

4:00pm-4:30pm

Jackie Kern (jkern@ncsa.uiuc.edu)
NCSA/UIUC

AG Collaborations – SCGlobal Update

Anchored in the newly constructed technology-enhanced Pittsburgh convention center, SC Global 2004 will link Access Grid communities from around the world with the annual Supercomputing Conference, to exchange ideas through highly informative talks, papers, panels and BOF's on topics of interest to attendees. In this session, you will learn about the technologies planned for use by SC Global participating sites, the requirements and deadlines for participation, and hear a few highlights of the SC Global program. Plenty of time will also be available for questions and discussion of SC Global's past and future.

Thursday, June 10

Track Two - AG Technical

11:00am-11:30am

Deb Agarwal (DAAgarwal@lbl.gov)
Lawrence Berkeley National Labs

XMPP Chat in the AG

11:30am-12:00pm

Rod Harris (rod.harris@anu.edu.au)

Australian National University

Video Presence Clustered Rendering and Remote Display Manager

The Australian National University Internet Futures team will present an application that can run across multiple off-the-shelf PCs turning them into a video decode cluster and display wall. The use of this will be to enable Access Grid Nodes to use multiple display PCs, with each being responsible for a portion of the total display, instead of a single display PC with a multi-head graphics card. Further more the application is able to be controlled remotely enabling a Node Manager to organize and arrange video tiles with minimal distraction to those participating in a video conference.

1:00pm-1:30pm

Hiroyuki Komatsu (komatsu@taiyaki.org)

TITECH

Advanced Display Management

The Access Grid uses many windows such as video windows, presentation slides, and control panels. To control those windows, an operator has to move, resize and iconify each windows separately at the present.

AGPager provides an easy window manipulation GUI as well as an automatic window layout system under a specified layout rule. This talk will present the usage of AGPager, the outline of the implementation, and the goal.

1:30pm-2:00pm

Ivan Judson (judson@mcs.anl.gov)

Argonne National Laboratory

Scheduling on the Access Grid

The Access Grid provides a complex framework of services and resources that can make the coordination of events difficult. Scheduling systems provide interfaces for making reservations for resources and the infrastructure to enforce the resulting schedule. The Access Grid has had primarily two online scheduling systems, but with AG2 there exists the possibility to more deeply integrate a scheduling solution that can provide simpler to use, but more control over the preparation, and possibly the execution of Access Grid collaborations. This talk will present some scheduling scenarios, generated as part of

the GGF ACE research group, and some derived use cases and requirements will be discussed. The talk will conclude with the presentation of a draft design of scheduling software that could be integrated with AG2.

2:00pm-2:30pm

Susanne Lefvert (lefvert@mcs.anl.gov)
Argonne National Laboratory

[Developing Shared Applications](#)

As the demand for customized collaborative tools increases, developers recognize the need for a shared environment providing a platform for applications to build on. This presentation will take a close look at the framework available in the Access Grid Toolkit for creating shared plug-in applications. An example shared application will be discussed, with the intention of providing a broad understanding of the technology fundamentals and the challenges associated with application implementation and integration. Also included in this presentation will be discussions about packaging, installation, and registration solutions to make an application available for the community.

2:30pm-3:00pm

JongWon Kim (jongwon@gist.ac.kr)
SangWoo Han (swhan@netmedia.gist.ac.kr)
Gwangju Institute of Science and Technology (GIST, formerly known as K-JIST)

Design of Network-Adaptive Extended Video Services for Access Grid

[presentation](#) | [paper](#)

The old VIC-based video services of AGTK 2.1.x is now facing limitations such as lack of high-quality video support, inflexible address allocation, and others. To address these problems, since year 2003, we've been working on high-quality video extensions for AG to include supports for DV (digital video) and HDV (high-definition digital video) video. Based on our past experience, we are now designing an extended version of video services for enhanced AG support:

ExtendedVideoService. The proposed video service will provide a flexible arrangement for multicast address allocation and will interface diverse video delivery applications such as Vic, DVTS,

and VideoLAN with AGTk. In addition, we suggest a MonitoringService that monitors current status of network and system resources and reports them. By interacting with the MonitoringService, the designed ExtendedVideoService may be able to control the quality of served video either manually or automatically.

3:30pm-4:00pm

Han Gao (hangao@cs.uchicago.edu)
University of Chicago

Research Directions in Network Services

We first will review the current research in network services starting with theoretical development of network services infrastructure, which includes two basic management modules: Capability Matchmaker and Multicast Clustering. Then we will discuss the main technical issues about integrating these models into the existing AG architecture. Finally, several interesting research topics will be introduced briefly, such as defining fairness in multicast, multicast tree topology and other details of network service applications.

4:00pm-4:30pm

Rhys Hawkins (rhys.hawkins@anu.edu.au)
Australian National University

Improved Media Tools For The Access Grid

The progress of a project to implement a new set of media tools for use in Access Grid sessions is presented. The new media tools have been designed to incorporate spatialised surround sound, flexible screen arrangement, remote control of video placement, the ability to run on separate machines, and provide a centralized mechanism for automated or preloaded video layout. The aim of these new media tools is to reduce the node operator load for setup and running of an Access Grid session, to improve the usability of Access Grid media software, and to give greater flexibility to the designers of Access Grid rooms.

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| [june 9](#) | [june 10](#) | [june 11](#) |

June 11, 2004 Access Grid Retreat DAY TWO

Friday, June 11

Plenary

1:00pm-2:30pm

Deb Agarwal (DAAgarwal@lbl.gov)
Lawrence Berkeley National Laboratory

PANEL Future Security Issues for the Access Grid

The Access Grid Toolkit now uses the Globus Toolkit to build a secure collaborative infrastructure using a PKI. This panel will present a short security tutorial, a review of the existing Access Grid Security solution, discuss the current plans for future security solutions in the Access Grid. The panel will try to solicit from attendees security requirements that might be incorporated into the future work. A set of security best practices will also be discussed in the context of the Access Grid.

Panelists:

Abdelilah Essiari
Lawrence Berkeley National Laboratory
[Securing Large Collaborations](#)

Chris Willing
University of Queensland
[Future Security Issues for the Access Grid: A User Perspective](#)

2:30pm-3:00pm

SIG Leaders
Special Interest Session Findings and Feedback

Ivan Judson, Tom Uram

#1: Hot Topics for AG Toolkit Development

Any developer interested in developing applications using the AG Toolkit (or developers that are already building exciting applications). You should have a basic knowledge and understanding of the Access Grid in order to fully participate.
(No slides used.)

Jennifer Teig von Hoffman, Jim Miller

#2: [Documentation for the Access Grid](#)

Do you have valuable AG experience or knowledge that could help other AG users, node operators or developers? OR, are you missing critical information that would help you to more successfully use the AG? Please join this discussion. Prior knowledge of the Access Grid Documentation Project efforts to date is beneficial to a productive discussion.

Mary Fritsch, Jackie Kern

#3: [Conducting Productive AG Sessions](#)

Anyone interested in effectively using the Access Grid (site representatives, new users), or anyone with success tips to share (current AG node operators, experienced users), is welcome to participate.

Bob Olson, Shannon Schraegle

#4: [Troubleshooting the AG](#)

Node operators (and others) needing to better understand what to do when things go wrong. Network Administrators and Systems Administrators who find themselves supporting AG usage.

3:00pm-3:30pm

Rick Stevens
Argonne National Laboratory
Closing Session
(No slides used.)

Friday, June 11

Track One - AG Operations

9:00am-9:30am

Brian Corrie (bcorrie@sfu.ca)
WestGrid/Simon Fraser University
WestGrid Collaboration and Visualization Network
WestGrid is a multi-province, multi-institute grid-computing project in Western Canada, deploying a range of grid enabled computation and storage facilities across Alberta and British Columbia. As part of this initiative, the Collaboration and Visualization (CV) Group within WestGrid has also deployed an advanced set of collaboration and visualization technologies across the WestGrid sites. The goal of the CV group is to provide an advanced collaboration and visualization infrastructure to the computational scientists in the WestGrid community. The collaboration infrastructure uses AccessGrid as a foundation for providing collaboration capabilities, including collaborative visualization, to its users. In this talk I will describe the WestGrid infrastructure that has currently been deployed, as well as describe some of our goals for integrating visualization into the AG environment as a "first class" collaboration service. I will pose some open questions as to how best to approach this integration in the AG environment.

9:30am-10:00am

Eric Olson (eolson@mcs.anl.gov)
Argonne National Laboratory
Packaging and Distributing the AG Toolkit
Demand for the Access Grid Toolkit is growing. In particular, users wish to see the toolkit packaged and supported on

various operating systems and hardware. This presentation discusses the strategy the Access Grid Toolkit is adopting to allow the porting and customization of the software. This presentation is intended to begin a discussion in the developer community and provide developers with the information and tools they need to support the platforms of their choice.

10:30am-11:00am

Tom Uram(turam@mcs.anl.gov)

Argonne National Laboratory

[Application Level Networking: Network Monitoring and Bridging](#)

The Access Grid has relied on working multicast infrastructure since its inception in 1999. This reliance on multicasting has required considerable effort, both from network providers who need to deploy and maintain the Access Grid and from the users who occasionally run into difficulties.

This talk will describe how the Access Grid Toolkit plans to address these issues by integrating technologies already developed for application-level multicasting. The existing solutions will be presented within the framework of the Access Grid Toolkit. This solution is intended to provide stability to the users, while presenting opportunities for challenging middleware research.

11:00am-11:30am

Bob Olson (olson@mcs.anl.gov)

Argonne National Laboratory

[Credential Management](#)

The Access Grid provides a secure collaborative environment, based on GSI/PKI tools and software. This talk will discuss the state of the toolkit and its security software.

Also presented will be details about how the existing software will be enhanced to support additional security solutions. The discussion of future enhancements will include justification not only in terms of usability and security but also in terms of technology changes coming in the near future. 1:00pm-1:30pm

Friday, June 11

Track Two - AG Technical

9:00am-9:30am

Mike Papka (papka@mcs.anl.gov), Argonne National Laboratory

[AG Collaborations – National Fusion Collaboratory](#)

The Department of Energy's National Fusion Collaboratory has been developing and prototyping collaborative environments in support of the nation's fusion program. Next generation fusion reactors will be an international effort with the reactor being shared by the entire global community. This talk will present a set of requirements that a project of this scope imposes on the collaborative environment.

9:30am-10:00am

Mitch Kutzko (mitch@ncsa.uiuc.edu)
NLNR/DAST

[NLNR/DAST's Mitch Kutzko will discuss the Multicast Beacon project.](#)

The NLNR/DAST Multicast Beacon is a multicast diagnostic tool written in Perl which uses the RTP protocol to provide useful statistics and diagnostic information about a given multicast group.

Multicast is a way of distributing IP packets to a set of machines which have expressed an interest in receiving them. It is a one-to-many distribution model suitable for video conferencing and other forms of data sharing over the network.

Teamed up with the Access Grid, the Multicast Beacon provides measurement data for the current multicast traffic in a group. The Access Grid is a project led by ANL to implement large-scale distributed collaboration over the network. It relies on multicast for distributing audio, video, and other data across the network. The Multicast Beacon can also be used as a general-purpose multicast measurement tool as well.

Multicast performance measurement is usually straightforward, as illustrated in RFC3550 (Real-time Transport Protocol). A set of measurement hosts send small probe packets to a particular multicast session, and also receive packets from the session in order to determine session

transfer (network) performance. The NLANR/DAST Beacon uses RTP as the underlying protocol for generating statistics.

(Provided, but not part of program.) [Group Project Advisor Poster](#)
NLANR/DAST, Tanya Brethour and Jim Ferguson

10:30am-11:00am

Kazuaki Obana (obana.kazuaki@lab.ntt.co.jp)
NTT Network Innovation Laboratories

[Evaluation of the MXQ Mechanism by Using Vic and Rat](#)

This presentation discusses potential congestion problems caused by video and audio applications. These applications commonly use UDP for their transmission. Unlike TCP, UDP does not have any standardized mechanisms for congestion control. Therefore, they might lead to severe congestion that would significantly damage all of the flows in same traffic class and degrade network utilization. To overcome this problem, we propose the MXQ (MaXimal Queuing) mechanism to realize a new flow-aware forwarding policy. We evaluate this mechanism using UDP video (vic) and UDP audio (rat) applications which are used as components of Access Grid. The results show that the dynamic arbitration control realized by the MXQ mechanism can effectively control the congestion and enhance the effective use of best effort networks.

11:00am-11:30am

Piers O'Hanlon (P.OHanlon@cs.ucl.ac.uk)
University College London

[IPv6 and the Access Grid](#)

The advent of IPv6 will provide a number of benefits to the Internet in terms of its continued growth and scaling properties. The provision of IPv6 functionality in Access Grid is under consideration within 6NET.org, a large European Research Project. Preliminary studies and tests have been performed and will be reported on. Initial investigations are underway into the impact of IPv6 on the deployment, functionality and development of AG systems.

AG Retreat 2004 Organizing Committee at ag2004@accessgrid.org for more information or inquiries.



Wednesday June 9, 2004		Access Grid "Showcase" 2004 Program
<i>Eastern Time</i>		
8:00	9:00	Registration <i>Rogers Communication Centre</i>
9:00	9:15	Welcome Ron Rankine Ryerson University
9:15	9:30	Opening Remarks Rick Stevens Argonne National Lab/University of Chicago
9:30	10:15	Art on the Grid Paul Mercer University of Alaska, Fairbanks
10:15	10:30	Coffee Break
10:30	11:15	Scientific Workspace of the Future Thomas Uram Argonne National Lab
11:15	12:00	High Quality Video Service Demonstration SangWoo Han / JongWon Kim Gwangju Institute of Science and Technology
12:00	1:30	Lunch
1:30	2:15	Advanced Biomedical Collaboratory Fred Dech University of Chicago
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4:00	4:30	Multicast Experiences Michael Murphy Ryerson University
4:30	5:00	Karaoke on the Grid Kazuyuki Shudo Grid Technology Research Center National Institute of Advanced Industrial Science and Technology (AIST)

Access Grid Retreat 2004 Program

Thursday June 10, 2004		Access Grid Retreat 2004 Program	
Eastern Time		<i>TRACK 1 - AG Operations</i>	<i>TRACK 2 - AG Technical</i>
8:00	8:30	Registration/Coffee	
8:30	9:00	WELCOME <i>Rick Stevens, Argonne National Lab/University of Chicago</i>	
9:00	10:00	OPENING KEYNOTE Collaboration Technologies: The Next Generation <i>Alan Blatecky, RENCi</i>	
10:00	10:30	BREAK	
10:30	11:00	Access Grid Toolkit Roadmap <i>Ivan Judson</i> <i>Argonne National Laboratory</i>	
11:00	11:30	Scientific Workspaces of the Future (SWOF) <i>Terry Disz</i> <i>Argonne National Laboratory</i>	XMPP Chat in the AG <i>Deb Agarwal</i> <i>Lawrence Berkeley National Lab</i>
11:30	12:00p	Collaborative Virtual Environments over the Access Grid <i>Dioselin Gonzalez</i> <i>Purdue University</i>	Video Presence Clustered Rendering and Remote Display Manager <i>Rod Harris</i> <i>Australian National University</i>
12:00	1:00	LUNCH	
1:00	1:30	Partner Perspectives - inSORS <i>Mike Galich and Jim Miller</i>	Advanced Display Management <i>Hiroyuki Komatsu</i> <i>TITECH</i>
1:30	2:00	Partner Perspectives - Microsoft Research <i>Todd Needham</i>	Scheduling on the Access Grid <i>Ivan Judson</i> <i>Argonne National Laboratory</i>
2:00	2:30	Partner Perspectives - Internet2 <i>Jonathan Tyman</i>	Developing Shared Applications <i>Susanne Lefvert</i> <i>Argonne National Laboratory</i>
2:30	3:00	AG Showcase Summary <i>Ron Rankine</i> <i>Ryerson University</i>	Design of Network-adaptive Extended Video Services for Access Grid <i>JongWon Kim</i> <i>Gwangju Institute of Science and Technology</i>
3:00	3:30	BREAK	
3:30	4:00	AG Collaborations - MSI Update <i>Stephenie McLean</i> <i>NCSA/University of Illinois</i>	Research Directions in Network Services <i>Han Gao</i> <i>University of Chicago</i>
4:00	4:30	AG Collaborations - SC Global Update <i>Jackie Kern</i> <i>NCSA/University of Illinois</i>	Improved Media Tools for the Access Grid <i>Rhys Hawkins</i> <i>Australian National University</i>
4:30	5:30	AG Community Roundtable/AG Future Directions <i>Rick Stevens, Argonne National Laboratory/University of Chicago</i>	
5:30	6:00	Special Interest Group Sessions, taking place at Reilly's Bar & Grill <i>Hot Topics for AG Toolkit Development (Ivan Judson, Tom Uram); Documentation for the Access Grid (Jennifer Tieg von Hoffman, Jim Miller); Conducting Productive AG Sessions (Mary Fritsch, Jackie Kern); Troubleshooting the AG (Bob Olson, Shannon Schraegle)</i>	

**Friday
June 11, 2004**

Access Grid Retreat 2004 Program



<i>Eastern Time</i>		<i>TRACK 1 - AG Operations</i>	<i>TRACK 2 - AG Technical</i>
8:30	9:00	Registration/Coffee	
9:00	9:30	Westgrid Collaboration and Visualization Network <i>Brian Corrie</i> <i>Simon Fraser University</i>	AG Collaborations - National Fusion Collaboratory <i>David Schissel</i> <i>General Atomics</i>
9:30	10:00	Packaging and Distributing the AG Toolkit <i>Eric Olson</i> <i>Argonne National Laboratory</i>	NLANR/DAST's Multicast Beacon Project Update <i>Mitch Kutzko</i> <i>NCSA/Unviersity of Illinois</i>
10:00	10:30	BREAK	
10:30	11:00	Application Level Networking: Network Monitoring and Bridging <i>Tom Uram</i> <i>Argonne National Laboratory</i>	Evaluation Of The MXQ Mechanism By Using Vic And Rat <i>Kazuaki Obana</i> <i>NTT Network Innovations Laboratories</i>
11:00	11:30	Credential Management <i>Bob Olson</i> <i>Argonne National Laboratory</i>	IPv6 <i>Piers O'Hanlon</i> <i>University College London</i>
11:30	12:00	OPEN TIME FOR ATTENDEES	
12:00	1:00	LUNCH	
1:00	2:30	PANEL Future Security Issues for the AG <i>Deb Agarwal, Lawrence Berkeley National Laboratory</i>	
2:30	3:00	Special Interest Group Findings & Feedback <i>SIG Leaders</i>	
3:00	3:30	CLOSING SESSION <i>Rick Stevens, Argonne National Laboratory/University of Chicago</i>	