STEM RESEARCH & EDUCATION IN ACTION

2008
NSDL Annual Meeting
September 30 - October 2
Washington, D.C.
Welcome to the 2008 NSDL Annual Meeting

This year, the program for the 2008 NSDL Annual Meeting highlights the complementary efforts of mature NSDL projects. Significant results have been achieved in professional development and outreach with K12 and higher education audiences; and, in web-based services that allow educators and learners to use, and re-use, the burgeoning collections in NSDL and NSDL Pathways. The program also highlights NSDL projects’ efforts to employ high-speed networks that enable the delivery and use of rich media content, identify the usage data that supports webmetric analysis of networks, and facilitate connections between personal and organizational networks to further the use of online content in support of STEM education. Finally, a plenary session of the meeting completes the transition to a new leadership structure for NSDL with the advent of a Resource Center and a Technical Network Services Provider.

Throughout the course of the NSDL program, Principal Investigators and project staff have made significant contributions to the multi-faceted environments in which NSDL is situated. Going forward, NSDL - the program, the projects, and the community - will continue to play a key role in the nation’s educational cyberinfrastructure. Take time to celebrate both the foundation of previous achievements and the continuing opportunities for NSDL.

Thank you!

The 2008 Annual Meeting Planning Committee
What you need to know

All meeting events and sessions will be held at Omni Shoreham Hotel
2500 Calvert St NW
Washington, DC 20008
(202) 234-0700

Posters
The Omni’s Blue Room will be open for viewing posters and networking with colleagues at the poster reception on Tuesday from 6:00 pm - 8:30 pm. Hors d’oeuvres, small meeting tables, and wireless Internet access will be provided.

Posters can also be viewed on Wednesday from 6:00 pm - 8:30 pm, during a second reception with coffee, tea, dessert, and Internet access available. Note: Posters must be removed by 7:00 pm Wednesday.

Internet and Email
Wireless Internet is provided in the meeting rooms and in the hotel lobby at the Omni. Computer stations will be available to check email on Tuesday and Wednesday in the Blue Room during poster viewing hours. Wireless Internet access is also available for free in guest rooms by enrolling in the Omni Hotels Loyalty program.

Schedule Notes
Schedule information is included in this program and in your meeting packet, including a list of Lightning Talks and poster abstracts. For additional materials and access to the Annual Meeting survey, go to http://annualmeeting.nsdl.org

Meeting Space
Additional meeting space is available. For times, see schedule, inside back cover. Reserve space at the registration table.

Annual Meeting: Blog on Expert Voices
The NSDL Road Reports Blog provides a fast, focused, and flexible format for publishing information and discussion around events, activities, and prevailing themes of the Annual Meeting. Blogs will be moderated by NSDL’s Outreach and Communications Group. Commentary, opinion, and reaction to posts are welcome from all meeting attendees. http://expertvoices.nsdl.org/roadreports

Schedule Overview

Tuesday, September 30th

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<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Session (Title may be abbreviated)</th>
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<tbody>
<tr>
<td>3:00 pm - 5:00 pm</td>
<td>Blue</td>
<td>Poster set up</td>
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<tr>
<td>5:00 pm - 5:45 pm</td>
<td>Blue Pre-Function</td>
<td>Opening plenary</td>
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<tr>
<td>6:00 pm - 8:30 pm</td>
<td>Blue, Blue Pre-Function</td>
<td>Opening poster reception</td>
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Wednesday, October 1st

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>7:30 am - 8:30 am</td>
<td>Blue Pre-Function</td>
<td>BREAKFAST</td>
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<tr>
<td>8:30 am - 9:15 am</td>
<td>Blue Pre-Function</td>
<td>Resource Center &amp; Technical Network Services Update</td>
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<tr>
<td>9:15 am - 9:30 am</td>
<td>Blue Pre-Function</td>
<td>BREAK</td>
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<tr>
<td>9:30 am - 10:45 am</td>
<td>Congressional A &amp; B</td>
<td>Pathways and Partnerships HPC University</td>
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<tr>
<td>9:30 am - 10:45 am</td>
<td>Capitol</td>
<td>NSDL in the Wild</td>
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<tr>
<td>9:30 am - 10:45 am</td>
<td>Embassy</td>
<td>Reuse of NSDL Resources</td>
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<tr>
<td>9:30 am - 10:45 am</td>
<td>Blue, Blue Pre-Function</td>
<td>Available for poster viewing &amp; meetings</td>
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<tr>
<td>10:45 am - 11:15 am</td>
<td>Blue Pre-Function</td>
<td>BREAK</td>
</tr>
<tr>
<td>11:15 am - 12:15 pm</td>
<td>Congressional A &amp; B</td>
<td>Integrating Research and Education Through NSDL Research-Based Pedagogies: Supporting Faculty Prof Development</td>
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<td>Blue, Blue Pre-Function</td>
<td>Available for poster viewing &amp; meetings</td>
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<tr>
<td>12:15 pm - 1:15 pm</td>
<td>Blue Pre-Function</td>
<td>LUNCH</td>
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<tr>
<td>1:15 pm - 2:30 pm</td>
<td>Congressional A &amp; B</td>
<td>Role of NSDL &amp; Related NSF Initiatives: Building the STEM Pipeline</td>
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<tr>
<td>1:15 pm - 2:30 pm</td>
<td>Capitol</td>
<td>Sharing Evaluation Expertise and Results</td>
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<tr>
<td>1:15 pm - 2:30 pm</td>
<td>Embassy</td>
<td>Connecting Applications with NSDL: Theory, Practice and Examples</td>
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<tr>
<td>1:15 pm - 2:30 pm</td>
<td>Blue, Blue Pre-Function</td>
<td>Available for poster viewing &amp; meetings</td>
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<tr>
<td>2:30 pm - 3:00 pm</td>
<td>Blue Pre-Function</td>
<td>BREAK</td>
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<td>Fedora Commons Educational Repository Projects</td>
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<td>Building the NSDL: Reflections on the Impacts of Collaboration</td>
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<td>3:00 pm - 4:00 pm</td>
<td>Embassy</td>
<td>Available for meetings</td>
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<tr>
<td>3:00 pm - 4:00 pm</td>
<td>Blue Pre-Function</td>
<td>Lightning Talks</td>
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<tr>
<td>4:00 pm - 4:30 pm</td>
<td>Blue Pre-Function</td>
<td>BREAK</td>
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<tr>
<td>4:15 pm - 5:15 pm</td>
<td>Embassy</td>
<td>Tutorial: Creating Podcasts for NSDL on iTunesU</td>
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<td>4:15 pm - 5:15 pm</td>
<td>Capitol</td>
<td>Tutorial: Collection Development with CWIS</td>
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<tr>
<td>4:30 pm - 6:30 pm</td>
<td>Blue, Blue Pre-Function</td>
<td>Afternoon Poster Reception</td>
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<tr>
<td>6:30 pm - 7:00 pm</td>
<td>Blue</td>
<td>Poster tear down</td>
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**Thursday, October 2nd**

<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Session (Title may be abbreviated)</th>
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<tbody>
<tr>
<td>7:30 am - 8:30 am</td>
<td>Blue Pre-Function</td>
<td>BREAKFAST</td>
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<tr>
<td>8:30 am - 9:45 am</td>
<td>Governor’s Board Rm</td>
<td>Online Collaborative Science Visualizations</td>
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<tr>
<td>8:30 am - 9:45 am</td>
<td>Capitol</td>
<td>Researching Metrics: What Do You Want to Learn? Data Driven Decision Making</td>
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<tr>
<td>8:30 am - 9:45 am</td>
<td>Calvert</td>
<td>Available for meetings</td>
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<tr>
<td>8:30 am - 9:45 am</td>
<td>Embassy</td>
<td>Three Services That Enhance Re-purposing of NSDL-wide Content</td>
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<td>9:45 am - 10:15 am</td>
<td>Blue Pre-Function</td>
<td>BREAK</td>
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<td>10:15 am - 11:30 am</td>
<td>Governor’s Board Rm</td>
<td>Professional Development: A Survey of Models &amp; Strategies</td>
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<td>Just Build It and They Will Come, Right?</td>
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<tr>
<td>10:15 am - 11:30 am</td>
<td>Capitol</td>
<td>New Projects Out of Old: Three Examples</td>
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<td>10:15 am - 11:30 am</td>
<td>Calvert</td>
<td>Digital Classroom: Approaches to High-tech Learning Experiences</td>
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<tr>
<td>10:15 am - 11:30 am</td>
<td>Embassy, Blue Pre</td>
<td>Available for meetings</td>
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<tr>
<td>11:30 am - 12:00 pm</td>
<td>Blue Pre-Function</td>
<td>BREAK, Hotel checkout</td>
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<tr>
<td>12:00 pm - 1:00 pm</td>
<td>Blue</td>
<td>LUNCH, Closing remarks</td>
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<td>1:00 PM</td>
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<td>MEETING ADJOURNS</td>
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October 1st

Wednesday

Location: Omni Shoreham Hotel

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<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>7:30 am - 8:30 am</td>
<td>BREAKFAST</td>
<td>Blue Pre-Function Room</td>
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<tr>
<td>8:30 am - 9:15 am</td>
<td>Resource Center Update</td>
<td>Blue Pre-Function Room</td>
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<td></td>
<td>Technical Network Services Update</td>
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<tr>
<td>9:15 am – 9:30 am</td>
<td>BREAK</td>
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<tr>
<td>9:30 am – 10:45 am</td>
<td>Pathways and Partnerships</td>
<td>Congressional A &amp; B</td>
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<td>Patricia Jacobs, Shodor Foundation</td>
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<td></td>
<td>Discuss several facets of partnership such as identifying and forming partnerships and how they can work together to leverage NSDL resources.</td>
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<tr>
<td>9:30 am – 10:45 am</td>
<td>HPC University</td>
<td>Capitol</td>
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<td></td>
<td>Scott Lathrop, University of Chicago</td>
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<td></td>
<td>HPC University is focused on high-quality, high-performance computing training and education resources and activities.</td>
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<tr>
<td>9:30 am – 10:45 am</td>
<td>The NSDL in the Wild: Encounters with K-12 Classroom, Library, and Policymakers’ Implementation of NSDL</td>
<td>Blue &amp; Blue Pre-function Rooms</td>
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<td>mimi recker, Utah State University</td>
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<td>Marcia Mardis, Wayne State University</td>
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<td>Anne Perrault, University of South Carolina</td>
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<td>Irene Harwarth, US Department of Education</td>
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<td>This session includes three linked components: preservice teachers’ use of NSDL; NSDL in school libraries; and an interactive panel of presenters.</td>
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<tr>
<td>9:30 am – 10:45 am</td>
<td>Reuse of NSDL Resources</td>
<td>Embassy</td>
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<td>Thomas Wrensch, Eduworks</td>
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<td>Report of data gathered on reuse across the NSDL. Discusses where reuse happens, highly reusable objects, and impacts of reuse on teachers.</td>
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<td>9:30 am – 10:45 am</td>
<td>The SMILE Pathway: What Do Science &amp; Math Informal Educators Need?</td>
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<td></td>
<td>Darrell Porcello, Lawrence Hall of Science, UC Berkeley</td>
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<td>Sherry Hsi, The Exploratorium</td>
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<td>Eric Marshall, New York Hall of Science</td>
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<td>Come hear about the NSDL SMILE Pathway’s first year accomplishments and challenges: a front-end survey, metadata questions, and user interface plans.</td>
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<td>9:30 am – 10:45 am</td>
<td>Integrating Research and Education Through the NSDL</td>
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<td>David Mogk, Montana State University</td>
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<td>Demonstrations of ways in which NSDL can showcase NSF’s mission, ”People, Ideas, and Tools”, in support of STEM education for all audiences</td>
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<tr>
<td>11:15 am – 12:15 pm</td>
<td>Bringing Research-Based Pedagogies into Use: Digital Libraries Supporting Faculty Professional Development</td>
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<td>Cathryn Manduca, Carleton College</td>
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<td>Ellen Iverson, Carleton College</td>
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<td>Bruce Mason, University of Oklahoma</td>
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<td>Hubert Staudigal, University of California, San Diego</td>
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<td>Sean Fox, Carleton College</td>
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<td>The Pedagogic Service provides a way for NSDL collections to connect resources to examples of their effective use with research-based pedagogies.</td>
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11:15 am – 12:15 pm Capitol

**Examples of Professional Development from the Math Forum and the Exploratorium**
Sherry Hsi, The Exploratorium
Wesley Shumar, Drexel University

Hear models, research, and designs of in-person and online workshops to promote tighter alignment with instructional practices

11:15 am – 12:15 pm Embassy

**Solutions for Correlating Collections to K-12 Content Standards for Interoperability**
Stuart Sutton, University of Washington
Diny Golder, JES & Co
Anne Diekema, Utah State University

Demonstration of effective means for correlating collections of learning objects to K-12 content standards using semi-automatic and manual tools

11:15 am – 12:15 pm Blue, Blue Pre-function Rooms

Available for meetings and poster viewing

12:15 pm – 1:15 pm LUNCH Blue Pre-Function

1:15 pm – 2:30 pm Congressional A & B

**The Role of NSDL and Related NSF Initiatives in Building the STEM Pipeline**
Sarita Nair-Pillai, Education Development Center, Inc (EDC)
Joyce Malyn-Smith, ITEST Learning Resource Center at EDC
Ellen McCallie, Center for Advancement of Informal Science Education (CAISE)

Members from NSDL, ITEST, ISE and other NSF program communities will discuss their cross-program efforts to build the STEM education and workforce pipeline.

1:15 pm – 2:30 pm Embassy

**Connecting Applications with the NSDL: Theory, Practice, and Lots of Examples**
Aaron Birkland, Cornell University
Jim Blake, Cornell University
Tim Cornwall, Cornell University
Katy Ginger, UCAR, Digital Learning Sciences
Jonathan Ostwald, UCAR, Digital Learning Sciences
John Weatherley, UCAR, Digital Learning Sciences

Using NCore services in your project. Will introduce developer toolkits, provide examples of working code, and review the NCore suite of tools

1:15 pm – 2:30 pm Capitol

**Sharing Evaluation Expertise and Results**
Flora McMartin, Broad-based Knowledge
Anne Diekema, Utah State University
mimi recker, Utah State University
Sarah Giersch, UCAR
Sherry Hsi, Exploratorium
Joshua Morrill, Morrill Solutions Research
Bruce Mason, University of Oklahoma
Lyle Barbato, University of Oklahoma
Glenda Morgan, George Mason University

NSDL project evaluators report on successful and “thorny” evaluation projects. Evaluation problem solving sessions follow presentations.

1:15 pm – 2:30 pm Blue and Blue Pre-function Rooms

Available for meetings and poster viewing

2:30 pm – 3:00 pm BREAK

3:00 pm – 4:00 pm Congressional A & B

**Students and Teachers Speak Up about NSDL**
Laurie Smith, Project Tomorrow
Julie Evans, Project Tomorrow

During this session, participants will learn about proven techniques for marketing programs for K-12 educators

3:00 pm – 4:00 pm Capitol

**Fedora Commons Educational Repository Projects**
Carol Minton Morris, Cornell University

Fedora’s flexible framework allows institutions and organizations worldwide to do more with their digital collections. This presentation highlights international Fedora use cases and suggests how NSDL partners might forge collaborations.

**Building the NSDL: Reflections on the Impacts of Collaboration on Research and Development**
Susan Jesuorega, Jesuorega & Associates
Flora McMartin, Broad Based Knowledge
David McArthur, University of North Carolina-Chapel Hill
Brandon Muramatsu

What are the stories of NSDL? How has NSDL been shaped by its projects and participants? Hear our progress in getting reflections on building NSDL.
October 1st

Wednesday

3:00 pm – 4:00 pm  Embassy
Available for meetings

3:00 pm – 4:00 pm  Blue Pre-function Room

Lightning Talks

4:00 pm – 4:30 pm  BREAK

4:15 pm – 5:15 pm  Embassy
Tutorial: Creating Podcasts for iTunesU
Charles Kazilek, Arizona State University
Robert Payo, UCAR

Hands-on workshop on developing and producing podcast content, tips and strategies and information on how to get your content onto NSDL iTunesU

4:15 pm – 5:15 pm  Capitol
Tutorial: Collection Development with CWIS
Ed Almasy, University of Wisconsin-Madison
Andrea Coffin, University of Wisconsin-Madison

This session will cover tips and tricks using the CWIS open source software package to help maintain and expand your resource collection.

4:15 pm – 7:00 pm  Congressional A & B
Available for meetings

4:30 pm – 6:30 pm  Blue, Blue Pre-function Rooms

AFTERNOON POSTER RECEPTION  (Coffee, tea, & dessert)

6:30 pm – 7:00pm  Blue Room

POSTER TEAR DOWN

Location: Omni Shoreham Hotel

October 2nd

Thursday

7:30 am - 8:30 am  BREAKFAST  Blue Pre-Function Room

8:30 am - 9:45 am  Governor’s Board Room

Online Collaborative Visualizations
Paul Allen, Cornell Lab of Ornithology
Laura Bartolo, Kent State University
Gene Klotz, Swarthmore College

We present three projects that engage users in science visualization in collaborative, interactive environments.

8:30 am - 9:45 am  Capitol

Researching Metrics: What Do You Want To Learn?
Ted Sicker, WGBH/Teachers’ Domain
Bob Donahue, WGBH/Teachers’ Domain

Log analysis tools such as Google Analytics and Omniture provide convenient reporting for basic metrics. How can you learn more for your website?

Data Driven Decision Making
Jessica Fries-Gaither, Ohio State University
Kim Lightle, Ohio State University

This session explores how multiple sources of data can inform and direct content development and delivery decisions.

8:30 am - 9:45 am  Embassy

Three Services That Enhance Re-purposing of NSDL-wide Content: OnRamp, Curriculum Customization Service, NSDL on iTunesU
Lynette Rayle, Cornell University
John Weatherley, Digital Learning Sciences, UCAR
Robert Payo, UCAR
Susan Van Gundy, UCAR

Three key services for organizing and structuring content for better access, discoverability, use, re-purposing, flexibility, and customization.
October 2nd
Thursday

8:30 am - 9:45 am
Calvert

Available for meetings

9:45 am - 10:15 am
BREAK

10:15 am - 11:30 am
Governor's Board Room

Professional Development: A Survey of Models and Strategies
Robert Payo, UCAR
Susan Van Gundy, UCAR
Wes Shumar, Drexel University
Kim Lightle, Ohio State University

This combined session addresses how we can support our users through professional development, tools, and mechanisms to grow a community of digital library users.

10:15 am - 11:30 am
Capitol

New Projects Out of Old: Three Examples
Lang Moore, Duke University (retired)
Rachael Bower, University of Wisconsin-Madison
Frank Settle, Washington and Lee University

This is a panel presenting MathDL, ATE Central, and Nuclear Pathways as examples of new projects from old, with emphasis on the process involved.

10:15 am - 11:30 am
Calvert

The Digital Classroom: Three Practical Approaches to Crafting High-tech Learning Experiences
Susan Dreher, Columbia University
Rob Lane, Columbia University
Lois McLean, McLean Media
Rick Tessman, McLean Media
Jessica Fries-Gather, Ohio State University
Colleen McLinn, Cornell Lab of Ornithology

Gain real-world insight on tools that give teachers and web publishers new ways to leverage digital resources and students new ways to learn science.

10:15 am - 11:30 am
Embassy & Blue Pre-function Rooms

Available for meetings

11:30 am - 12:00 pm
BREAK & CHECK OUT

Hotel checkout by 12 pm

12:00 pm - 1:00 pm
LUNCH & CLOSING REMARKS
Blue

1:00 pm
MEETING ADJOURNS
NSDL wishes to express deep gratitude and appreciation for all the community volunteers and staff who have participated in committee work and other leadership activities over the years, as well as all those who engaged in shaping NSDL as a library, an organization, and a vibrant intellectual community.

**National Science Foundation**
NSDL is the National Science Foundation’s STEM education digital library.

Lee Zia, Program Officer
David McArthur, University of North Carolina-Chapel Hill

**National Visiting Committee (NVC)**
The National Visiting Committee was appointed by NSF to advise the Core Integration team on high-level strategic and operational issues.

Diana Oblinger, Chair
Sandra Glass
Linda Roberts

Martin Blume
Tom Moritz
Bernard Rous

Wade Ellis
Alfred Moyé
Abby Smith

Ira Fuchs
Thomas Reeves
Gerald Wheeler

**Core Integration (CI)**
The CI team has provided day-to-day management of NSDL and was responsible for engaging the community, providing technology, and operating core services. Many of Core Integration’s functions will be provided by the NSDL Resource Center and the Technical Services Network Provider

Principal Investigators:
Kaye Howe, University Corporation for Atmospheric Research, Director
Dean Krafft, Cornell University
Kate Wittenberg, Columbia University
David Millman, Columbia University

**2006-2008 Policy Committee (PC)**
The Policy Committee has acted on behalf of the NSDL Assembly (which has consisted of all principal investigators for NSF NSDL grants) to work with NSF and the CI team in coordinating the activities of the standing committees, task forces, and other aspects of the NSDL community. [http://policy.comm.nsdl.org](http://policy.comm.nsdl.org)

Martin Halbert, Chair
Laura Bartolo
Rachael Bower

Bruce Caron
Lillian Cassell
Brandon Muramatsu

Steven Weimar

**2007-2008 Standing Committees**

**Community Services**
The activities of this committee have assisted NSDL users and learners in defining services, processes, and standards that NSDL can use to increase the impact, reach, and efficiency of the library. [http://commserv.comm.nsdl.org](http://commserv.comm.nsdl.org)

David Yaron, Chair

**Content**
This committee has recommended and implemented policies to ensure that NSDL content is high quality, is appropriate and consistent, has technical integrity, and is accessible for use by global audiences of learners at all levels. [http://content.comm.nsdl.org](http://content.comm.nsdl.org)

Kimberly Lightle, Chair
Stuart Chalk, Co-Chair

**Educational Impact and Evaluation**
This committee has ensured that participatory and stakeholder evaluation principles are integrated into the design, development, and implementation of NSDL. [http://eduimpact.comm.nsdl.org](http://eduimpact.comm.nsdl.org)

Flora McMartin, Chair
Anne Diekema, Co-Chair

**Sustainability**
This committee was formed to facilitate the development of an NSDL entity, examining long-term sustainability through collective action and diversified funding streams. [http://sustain.comm.nsdl.org](http://sustain.comm.nsdl.org)

Paul Berkman, Chair
Liz Liddy, Co-Chair
Lois McLean, Co-Chair

**Technology**
This committee has identified community technical needs and the means to translate those needs into deployable technology including recommendations for technical standards and the technical integration of resources and services into NSDL architecture. [http://technology.comm.nsdl.org](http://technology.comm.nsdl.org)

Ed Almasy, Chair
Jon Holmes, Co-Chair

**About NSDL Committees**
While the committee structure as it existed from 2000-2008 will not be continued as NSDL moves forward, new processes and opportunities will be created by the Resource Center and Technical Network Services to solicit community input, coordinate informed decision-making, facilitate discussions of interest, and to generally provide for ongoing community engagement.
2008 Annual Meeting Planning Committee

Rachael Bower, University of Wisconsin–Madison ✧ Policy Committee
Sharon Clark, UCAR ✧ NSDL Central Office
Donna Cummings, UCAR ✧ NSDL Central Office
Anne Diekema, Utah State University ✧ Educational Impact & Evaluation Standing Committee
Jeremy Frumkin, Oregon State University ✧ Technology Standing Committee
Sarah Holsted, UCAR ✧ 2008 Annual Meeting Planning Committee Chair
Cathy Lowe, Kent State University ✧ Content Standing Committee
Lois McLean, McLean Media ✧ Sustainability Standing Committee
Robert Payo, UCAR ✧ NSDL Central Office
Lutishoor Salisbury, University of Arkansas ✧ Member-At-Large

Proposal Reviewers

Dave Ennist, American Society of Cell Biology
Diny Golder, JES & CO
Yan Han, University of Arizona
David McArthur, University of North Carolina-Chapel Hill
David Mogk, Montana State University
mimi recker, Utah State University
Wesley Shumar, Drexel University
Tom Wrensch, Eduworks

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