

The logo for the National Science Digital Library (NSDL) features the letters 'NSDL' in a bold, sans-serif font. Each letter is contained within a colored square: 'N' is green, 'S' is yellow, 'D' is white, and 'L' is red.

ANNUAL MEETING

Celebrating a Digital Decade
and Envisioning the Next



Inside the Classroom:

A Discussion with K-12 Educators about STEM Digital Resources

Washington, DC
November 2, 2010

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Today's Discussion: The Big Questions

- ▶ What **kinds of digital resources** do teachers use?
- ▶ How do educators **evaluate quality** in resources?
- ▶ What kinds of resources do **educators really want?**
- ▶ What are the **challenges or barriers** to using more digital resources?
- ▶ What is the **value of digital resources** to student achievement and productivity?

Introducing our Expert Panel



Arlington Public Schools/Kenmore Middle School (Virginia):

Michael Goodman, IT Coordinator

Jill Lyttle, 8th Grade Math Teacher

Michelle Meehan, 7th Grade Math Teacher

Forest Park High School/Prince William County Public Schools (Virginia):

Chuck Drake, iT Specialist and AP Coordinator

Brian Hackett, iT Resource Teacher

Red Lion Area Schools/Red Lion Senior High School (Pennsylvania):

Jared Mader, Director of Technology Services

**Ben Smith, Physics Teacher and Science Department
Chair**

Our interest in this topic:



➤ **Speak Up National Research Findings**

➤ **Our other evaluation and research projects**

➤ **Our work with NSDL since 2006**

Project TestDrive: 2006 - 2008

Current Resource Center Services

Speak Up National Research Project

- ▶ **Annual national research project**
 - Online surveys + focus groups
 - Open for all K-12 schools and schools of education
 - Institutions receive free report with their own data
- ▶ **Collect ideas ↔ Stimulate conversations**
 - K-12 Students, Teachers, Parents, Administrators
 - Pre-Service Teachers in Schools of Education
- ▶ **Inform policies & programs**
 - Analysis and reporting
 - Services to help transform teaching and learning

Speak Up National Research Project

▶ Empowering authentic voices – since 2003:

- 1.6 million K-12 students
- 142,000 teachers
- 82,000 parents
- 10,500 school leaders
- 1,900 pre-service teachers
- 23,000 K-12 schools – from all 50 states, DC, American military base schools, Canada, Mexico, Australia, int'l schools . . .
- 71 schools of education

1.85 million respondents

Speak Up survey question themes

- **Learning & Teaching with Technology**
- **21st Century Skills: Digital Citizenship**
- **Science and Math Instruction**
- **Career Interests in STEM and Teaching**
- **Professional Development / Teacher Preparation**
- **Internet Safety**
- **Administrators' Challenges**
- **Emerging Technologies in the Classroom**
 - *Mobile Devices, Online Learning, Digital Content*
 - *Educational Games, Web 2.0 tools and applications*
- **Designing the 21st Century School**



Release of two national reports
March 16 and May 5, 2010
Available at: www.tomorrow.org



▶ **Creating Our Future:**

**Students Speak Up
about their Vision for
21st Century Learning**

**Speak Up 2009 National
Findings: K-12 Students &
Parents**

▶ **Unleashing the Future:**

**Educators Speak Up
about the Use of
Emerging Technologies
for Learning**

**Speak Up 2009 National
Findings: Teachers, Aspiring
Teachers & Administrators**



What is Project TestDrive?

**National research project on the classroom effectiveness
of K-12 STEM resources in the NSDL
Supplemental to Digital Libraries go to School**

Goals

- ▶ **Evaluate the relevance and quality of existing resources, accessibility and impact in the classroom**
- ▶ **Develop rubrics for evaluating current and future NSDL content**
- ▶ **Develop recommendations for promoting NSDL to K-12 educators**

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Join us tomorrow:

**Digital Content Trends:
Are We on the Same Page with Today's
Free Agent Learners?**

Speak Up 2009 National Findings

Closing Keynote (with lunch!)

12:15 – 1:00 pm

Blue Room

Speak Up 2010



Online surveys available for:

K-12 students

Parents (in Spanish too!)

Teachers

Administrators

Pre-service teachers

**Surveys open for input:
Oct 18 – Dec 17, 2010**

No fee to participate. No limit on the # of surveys submitted. 100% confidential.

Free online report for all Speak Up participating institutions w/ your data: Feb 2011

Release of National Speak Up Findings in Congressional Briefings: Spring 2011

Thank you.
Let's continue this conversation.

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