

Agenda

WEDNESDAY, JANUARY 26, 2011

6:00pm – 10:00pm **Registration and Poster Setup**
Grand Registration/Grand Ballroom

THURSDAY, JANUARY 27, 2011

7:00am – 7:45am **Registration and Continental Breakfast**
Grand Registration/Grand Ballroom

Poster Setup
Grand Ballroom

7:45am – 8:45am **Welcome and Opening Plenary Session**
Renaissance Ballroom

Moderator:
Donald L. Millard, Lead Program
Director, NSF TUES Program

Speakers:
Shirley M. Malcom, Director, AAAS EHR
Programs

Linda L. Slakey, Division Director, NSF
DUE

8:45am – 9:00am **Break**

9:00am – 10:30am **Poster Session I**
Grand Ballroom

10:30am – 10:45am **Break**

10:45am – Noon **PI Led Workshops - Session A**

ASSESSMENT/EVALUATION

A1 Assessing Student Achievement/
Outcomes - I
Congressional A

A2 Evaluating Conceptual Understanding
Meeting Room 2

A3 Using Technology to Help Assess
Student Writing
Meeting Room 6

A4 Using Wikis for Assessment and
Collaboration
Meeting Room 7

COLLABORATION

A5 Overcoming the Challenges of
Multi-Institutional TUES Projects
Meeting Room 3

DISSEMINATION

A6 Achieving Widespread Adoption of
Technology-Based Materials: From
Initial Designs to Dissemination
Congressional B

FACULTY DEVELOPMENT

A7 Developing Faculty Learning
Communities
Meeting Room 12

A8 Faculty Empowerment Through
Professional Development
Meeting Room 8

MATERIALS DEVELOPMENT

A9 Designing for Diversity: Being
Attentive to the Needs and Resources
of Underrepresented Groups in STEM
Meeting Room 9

A10 Inquiry-based Learning Materials
Meeting Room 13

A11 Using Computer Visualizations to
Improve Learning
Meeting Room 5

PEDAGOGY

A12 Affective Behavior and
Motivation II
Meeting Room 15

A13 Identifying and Adapting
Pedagogies for Learning Across
Disciplines
Meeting Room 10

A14 Incorporating Writing into STEM
Courses and Surviving It
Meeting Room 11

A15 Teaching Essential Scientific Skills
for Citizens and Scientists
Meeting Room 4

TECHNOLOGY-ENHANCED LEARNING

A16 Challenges of Interdisciplinary
Education in the Continuous Col-
laborative Computational Cloud (C4)
Meeting Room 16

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| | <p>A17 Integrating Simulations into STEM Education <i>Meeting Room 17</i></p> <p>A18 Leveraging Technology to Support Disciplinary Reasoning <i>Meeting Room 18</i></p> <p>A19 Remote Instrumentation <i>Meeting Room 19</i></p> <p>A20 Successes and Pitfalls with Computer-based Learning Modules <i>Meeting Room 14</i></p> | <p>B4 Methods for Assessment and Evaluation <i>Meeting Room 4</i></p> <p>COLLABORATION</p> <p>B5 Building Bridges Between 2-Year and 4-Year Institutions <i>Meeting Room 3</i></p> <p>DISSEMINATION</p> <p>B6 Designing and Implementing Dissemination That Will Have an Impact on Faculty Practice <i>Congressional A</i></p> <p>B7 From Dissemination to Sustainability <i>Meeting Room 19</i></p> <p>FACULTY DEVELOPMENT</p> <p>B8 Overcoming Faculty Resistance to Educational Changes <i>Meeting Room 12</i></p> <p>KEY CHALLENGES</p> <p>B9 Qualitative Methods: Getting Serious About Understanding Student Learning <i>Meeting Room 5</i></p> <p>MATERIALS DEVELOPMENT</p> <p>B10 Curricula, Materials and Assessments for Inquiry-Based Pre-Service Teacher Courses that Help Connect Content and Pedagogy <i>Meeting Room 11</i></p> <p>B11 Developing Modular Curricula-I <i>Meeting Room 15</i></p> <p>B12 Teaching Outside the Box: New Tools for New Insights <i>Meeting Room 6</i></p> <p>PEDAGOGY</p> <p>B13 Effective Use of Information Technology <i>Meeting Room 14</i></p> <p>B14 Implementing Problem-Based and Collaborative Learning <i>Congressional B</i></p> |
| Noon – 1:30pm | <p>Lunch and Speaker <i>Renaissance Ballroom</i></p> <p>Moderator: Don L. Millard, Lead Program Director, NSF TUES Program</p> <p>Topic and Speaker: <i>Measuring Impact in STEM ED - Are They Thinking Like Experts?</i> Carl E. Wieman, Associate Director for Science, White House Office of Science and Technology Policy (OSTP)</p> | |
| 1:30pm – 1:45pm | Break | |
| 1:45pm – 3:15pm | Poster Session II <i>Grand Ballroom</i> | |
| 3:15pm – 3:30pm | Break | |
| 3:30pm – 4:45pm | <p>PI Led Workshops - Session B</p> <p>ASSESSMENT/EVALUATION</p> <p>B1 Assessing Professional Skills Related to Critical Thinking and Problem Solving <i>Meeting Room 13</i></p> <p>B2 Assessing Student Achievement/ Outcomes - II <i>Meeting Room 2</i></p> <p>B3 Integration and Evaluation Issues with Computer Security Related Projects <i>Meeting Room 7</i></p> | |

Agenda

B15 Team Learning, Evaluation, and
Community Building
Meeting Room 8

TECHNOLOGY-ENHANCED LEARNING

B16 Developing Reliable Software
Meeting Room 16

B17 Education through Games
Meeting Room 9

B18 Remote Laboratory
Meeting Room 10

B19 The Odd Couple: Physicists and
Sociologists? Dissemination Strategies
for Cutting-Edge Teaching and Learning
Materials
Meeting Room 17

B20 Using Video to Support Learning
Meeting Room 18

4:45pm – 5:00pm

Break

5:00pm – 6:15pm

**PD Led Workshops - Session A
Topical Sessions**

Evaluation Strategies
Congressional A

Other NSF Funding Opportunities
Congressional B

Transitioning from Type 1 to Type 2
Projects
Congressional C

Project Sustainability
Meeting Rooms 8 and 9

Dissemination Strategies
Meeting Rooms 12, 13, and 14

Preparing Annual and Final Reports
Meeting Room 16

6:15pm – 7:45pm

Poster Session III
Grand Ballroom

7:15pm – 9:00pm

Poster Session III Continues
Grand Ballroom

Reception
Grand Ballroom Foyer

9:00pm – 10:00pm

Remove Posters
Reception Continues

FRIDAY, JANUARY 28, 2011

7:30am – 8:00am

Continental Breakfast

8:00am – 9:15am

PI Led Workshops - Session C

ASSESSMENT/EVALUATION

C1 Assessing Service Learning and
Community-based Research
Meeting Room 17

C2 Learning Assessment for Small and
Large Curriculum Development
Projects
Meeting Room 15

C3 Practical Evaluation for CCLI
Programs
Congressional A

C4 Using Assessment Evidence to
Guide our Actions: Practicing with Real
Results
Meeting Room 10

COLLABORATION

C5 Building a Community of
Researchers
Meeting Room 9

DISSEMINATION

C6 Leveraging Partners and Resources
for Dissemination
Meeting Room 8

FACULTY DEVELOPMENT

C7 Disciplinary Communities for Peer-
Based Faculty Development
Meeting Room 19

C8 Professional Development Pro-
grams for Future STEM Faculty
Meeting Room 5

KEY CHALLENGES

C9 Growing Your Project for National
Impact
Congressional B

MATERIALS DEVELOPMENT

C10 Impacting K-12: Dissemination That Makes a Difference
Meeting Room 11

C11 Modeling and Simulation in the Biological Sciences
Meeting Room 16

C12 Undergraduate Project Laboratory Classes
Meeting Room 6

PEDAGOGY

C13 Engaging Science Students with Video, Research, and Real World Applications
Meeting Room 18

C14 How Instructors Influence What Students Think, Believe, and Feel About the Learning of Science
Meeting Room 13

C15 Using Inquiry-Based/Hands-on Methods
Meeting Room 2

TECHNOLOGY-ENHANCED LEARNING

C16 Adapting Computation into Undergraduate STEM Curricula
Meeting Room 4

C17 Automated Grading
Meeting Room 14

C18 Developing and Using Applets and Other Computer Resources for STEM Education
Meeting Room 7

C19 Online Activities in the Large Lecture Environment: Thoughts, Tactics and Strategies
Meeting Room 12

C20 Technology Enhanced Collaborative Learning
Meeting Room 3

9:15am – 9:30am

Break

9:30am – 10:45am

**PD Led Workshops - Session B
STEM Disciplines**

Biological Sciences
Meeting Rooms 12, 13, and 14

Chemistry
Meeting Rooms 8 and 9

Computer Science
Congressional C

Engineering
Congressional A and B

Geological Sciences
Meeting Room 11

Interdisciplinary
Meeting Room 16

Mathematics
Meeting Room 10

Physics or Astronomy
Meeting Room 15

Research or Assessment of Research
Meeting Room 18

Social Sciences
Meeting Room 17

10:45am – 11:00am

Break

11:00am – Noon

Summary Plenary Session
Renaissance Ballroom

Speaker:
Myles G. Boylan, NSF Program Director

Noon

Adjourn