

Agenda -- Updated with Room Assignments

***To view a hotel floor plan click [here](#).

Thursday, April 15, 2004

- 7:00 pm - 9:00 pm **Conference Check-In**
Regency Ballroom Foyer, Ballroom Level
- 8:00 pm - 10:00 pm **Student Social** (Undergraduate Students Only)
Tidewater Room, Second Floor

Friday, April 16, 2004

- 7:30 am **Conference Check-In**
Regency Ballroom Foyer, Ballroom Level
- 9:00 am - 9:30 am **Poster Room open** for posters to be put up
Exhibit Hall A, Exhibit Level
- 9:30 am - 10:15 am **Opening Comments:** Arden L. Bement, Jr., Acting Director (NSF); Alan I. Leshner, Chief Executive Officer (AAAS); Rosemary R. Haggett, Division Director, DUE (NSF)
Regency Ballroom E, Ballroom Level
- 10:15 am - 10:30 am **Conference Charge** -- Myles Boylan, Lead Program Director, DUE (NSF)
Regency Ballroom E, Ballroom Level
- 10:45 am - 12:15 pm **Topical Session Series A** (10 parallel sessions)
- A1 Building Students' Observational and Analytical Skills Using GIS-Based Investigations of Earth Processes**
Washington Room B, Ballroom Level
Presented by: Michelle Hall, University of Arizona
- A2 Remote Instrumentation**
Conference Theater, Ballroom Level
Presented by: Preethi Pratap, Northeast Radio Observatory Corp.; Alan West, Columbia University; Allen Hunter, Youngstown State University
- A3 Computer Security: Pedagogy and Practice**
Roosevelt Room, Third Floor
Presented by: Andrew Phillips, University of Wisconsin, Eau-Claire
- A4 Teaching Through Touching: Using LEGO® Bricks to Teach Engineers and Liberal Arts Students Engineering**
Lincoln Room, Third Floor
Presented by: Chris Rogers, Tufts University
- A5 Peer-Led Team Learning: A Versatile Student-Centered Curriculum Strategy**
Kennedy Room, Third Floor
Presented by: Pratibha Varma-Nelson, Northeastern Illinois University; Mark Cracolice, University of Montana
- A6 Disciplinary Research Strategies for Assessment of Learning in Large Classes**
Washington Room A, Ballroom Level
Presented by: Diane Ebert-May, Michigan State University

A7 Evaluating Outcomes: Dare to Discover!
Jefferson Room, Third Floor
Presented by: William Maki, Texas Tech University

A8 Teaching a Calculus Course with WeBWork,™ an Online Homework System
Fairfax Room, Third Floor
Presented by: William Ziemer, California State University, Long Beach

A9 Marrying Engineering Design and Service Learning Through EPICS: Engineering Projects in Community Service
Arlington Room, Third Floor
Presented by: William Oakes, Purdue University; Leah Jamieson, Purdue University

A10 Making Proposal Writing an Affirming Adventure for Faculty: Inspiring Innovation
Prince William Room, Third Floor
Presented by: Diana I. Marinez, Texas A&M University, Corpus Christi; Janet Andersen, Hope College

12:15 pm - 1:45 pm

Lunch (Plenary I) - David Goldston, Chief of Staff (U.S. House of Representatives Committee on Science)
Regency Ballroom E, Ballroom Level

2:00 pm - 3:30 pm

Topical Session Series B (10 parallel sessions)

B1 Inquiry Teaching: What Is It and How Do We Know If It Works?
Washington Room B, Ballroom Level
Presented by: Charlene D'Avanzo, Hampshire College

B2 Networked Learning: Using Technology to Improve Learning in Undergraduate Education
Conference Theater, Ballroom Level
Presented by: Charles McDowell, University of California, Santa Cruz; David Yaron, Carnegie-Mellon University

B3 Connecting Science to Society
Jefferson Room, Third Floor
Presented by: Margaret Waterman, Southeast Missouri State University; Stephanie Fitchett, Florida Atlantic University; Danny Kaplan, Macalester College

B4 SCALE-UP: Student-Centered Activities for Large Enrollment Undergraduate Programs
Kennedy Room, Third Floor
Presented by: Robert Beichner, North Carolina State University

B5 What I Wish I Had Known in Art School
Lincoln Room, Third Floor
Presented by: Marc Frantz, Indiana University

B6 Preparing Students for Research and Teaching: Pedagogy, Practice, Curricular Design, and Assessment to Improve Student Learning
Roosevelt Room, Third Floor
Presented by: David Brakke, James Madison University

B7 Mixed Marriages: Learning to Collaborate Across Disciplines
Fairfax Room, Third Floor
Presented by: Peter Crouch, Arizona State University

B8 Unlocking the Clubhouse: Institutional Reform for Diversity
Arlington Room, Third Floor
Presented by: Allan Fisher, Carnegie-Mellon University

B9 Teaching as Research
Washington Room A, Ballroom Level
Presented by: Bob Mathieu, University of Wisconsin, Madison; Cindy Atman, University of Washington

B10 Impact of Disciplinary Integration at Two Institutions
Prince William Room, Third Floor
Presented by: Richard Guarasci, Wagner College; Ellen Goldey, Wofford College

3:30 pm - 4:00 pm **Break I**
Regency Ballroom Foyer, Ballroom Level

4:00 pm - 5:30 pm **Poster Session I**
Exhibit Hall A, Exhibit Level

5:30 pm - 6:30 pm **Social Hour / hors d'oeuvres**
Exhibit Hall A, Exhibit Level

8:00 pm - 10:00 pm **IMAX Movie: Journey into Amazing Caves**, Hazel Barton (Northern Kentucky University)
Regency Ballroom E, Ballroom Level

Saturday, April 17, 2004

7:30 am **Conference Check-In**
Regency Ballroom Foyer, Ballroom Level

7:30 am - 8:30 am **Breakfast**
Regency Ballroom E, Ballroom Level

8:30 am - 10:00 am **Topical Session Series C** (10 parallel sessions)

C1 Creating and Using Visual Representations to Construct Knowledge in STEM Education
Washington Room B, Ballroom Level
Presented by: Felice Frankel, Massachusetts Institute of Technology; Stephen Reynolds, Arizona State University

C2 Visualizing Scientific Data Sets: From Molecules to Galaxies
Conference Theater, Ballroom Level
Presented by: Laurence Marschall, Gettysburg College; Sandra Porter, Geospiza, Inc.

C3 Science for All Americans: A Universally Accessible Class for the New Millennium
Roosevelt Room, Third Floor
Presented by: Michele Wheatly, Wright State University

C4 Just-in-Time Teaching: Addressing Student Engagement, Interaction, and Learning via Coordinated Web/Classroom Activities
Jefferson Room, Third Floor
Presented by: Evelyn Patterson, U.S. Air Force Academy

C5 Biology, Chemistry, and Biomedical Engineering Undergraduate Laboratories: Ideas for Adaptation
Lincoln Room, Third Floor
Presented by: Bhawani Venkataraman, Columbia University; Christopher Sacchi, Kutztown University

C6 Concept Inventories: Tools for Uncovering STEM Students' Misconceptions
Arlington Room, Third Floor
Presented by: James Richardson

C7 Achieving Interdisciplinary Impact: Clearing the Hurdles to Mesolore's Classroom Adoption
Fairfax Room, Third Floor
Presented by: Elizabeth Bakewell, Brown University

C8 Activities for Introducing Students to Statistics
Prince William Room, Third Floor
Presented by: Allan Rossman, California Polytechnic State University, San Luis Obispo

C9 Looking at Learning
Kennedy Room, Third Floor

Presented by: Cindy Atman, University of Washington; Bob Mathieu, University of Wisconsin, Madison

C10 Undergraduate Research: Approaches to Success

Washington Room A, Ballroom Level

Presented by: John Mateja, Murray State University; Charlotte Otto, University of Michigan, Dearborn

10:00 am - 10:30 am

Break II

Regency Ballroom Foyer, Ballroom Level

10:30 am - Noon

Poster Session II

Exhibit Hall A, Exhibit Level

Noon - 1:15 pm

Lunch (Plenary II) - Denice Denton, Dean, College of Engineering (University of Washington)

Regency Ballroom E, Ballroom Level

1:30 pm - 3:00 pm

Topical Session, Series D (10 parallel sessions)

D1 Using Computation and Visualization to Enhance the Teaching of Ordinary Differential Equations

Washington Room A, Ballroom Level

Presented by: Paul Blanchard, Boston University

D2 Virtual Laboratories

Conference Theater, Ballroom Level

Presented by: Jeff Bell, California State University, Chico; Franklin Wattenberg, U.S. Military Academy; Joseph Grabowski, University of Pittsburgh

D3 Research Instrumentation Used in Education

Jefferson Room, Third Floor

Presented by: Mitchell Johnson, Duquesne University; John Boothby, San Jose State University; Kiko Galvez, Colgate University

D4 Teaching Spatial Analysis and Data Visualization in Undergraduate Social Science Research Methods and Data Analysis Courses

Lincoln Room, Third Floor

Presented by: Richard LeGates, San Francisco State University

D5 Calibrated Peer Review — A Writing and Critical Thinking Instructional Tool

Washington Room B, Ballroom Level

Presented by: Arlene Russell, University of California, Los Angeles

D6 Tutorials in Introductory Physics: A Research-Based Approach to Improving Student Learning in the Introductory Course

Arlington Room, Third Floor

Presented by: Paula Heron, University of Washington

D7 Adding to Your Tool-Belt: Strategies for Improving Retention Through Learning Communities and Partnering with Two-Year Colleges

Roosevelt Room, Third Floor

Presented by: Ronald Ulseth, Itasca Community College

D8 Roots and Branches: Promoting the Diffusion of Curricular Reform Ideas Throughout Undergraduate Science Education

Kennedy Room, Third Floor

Presented by: Priscilla Laws, Dickinson College

D9 Using Environmental Impact Analysis for Teaching Interdisciplinary Science

Fairfax Room, Third Floor

Presented by: James Haynes, SUNY College at Brockport; Michelle Hluchy, Alfred University

D10 Engineering Education: It Starts with the Learner

Prince William Room, Third Floor

Presented by: Glen Ellis, Smith College

3:00 pm - 3:30 pm

Break III

Regency Ballroom Foyer, Ballroom Level

3:30 pm - 4:45 pm

Interactive Plenary, Eric Mazur, Gordon McKay Professor of Physics (Harvard)

- University)
Regency Ballroom E, Ballroom Level
- 5:30 pm - 6:30 pm **Social Hour**
Exhibit Hall A, Exhibit Level
- 6:30 pm - 9:30 pm **Banquet (Plenary III)** - Fred Humphries, President and CEO (National Association for Equal Opportunity in Higher Education)
Regency Ballroom E, Ballroom Level

Sunday, April 18, 2004

- 7:30 am **Conference Check-In**
Regency Ballroom Foyer, Ballroom Level
- 7:30 am - 8:30 am **Breakfast**
Regency Ballroom E, Ballroom Level
- 8:30 am - 9:30 am **Report by Student Attendees**
Regency Ballroom E, Ballroom Level
- 9:30 am - 9:50 am **Break IV**
Regency Ballroom Foyer, Ballroom Level
- 9:50 am - 11:40 pm **Call to Action Session, Input to NSF** (10 parallel sessions)
- Group **CCLI-DM**, Conference Theater, Ballroom Level
Group **CCLI-CH**, Washington Room A, Ballroom Level
Group **CCLI-CCCD**, Washington Room B, Ballroom Level
Group **CCLI-EBT**, Kennedy Room, Third Floor
Group **CCLI-PF**, Jefferson Room, Third Floor
Group **CCLI-CFB**, Lincoln Room, Third Floor
Group **CCLI-KS**, Roosevelt Room, Third Floor
Group **CCLI-PBC**, Arlington Room, Third Floor
Group **CCLI-CHBC**, Fairfax Room, Third Floor
Group **CCLI-CG**, Prince William Room, Third Floor
- 11:40 am - 12:30 pm **Final Plenary**, Donald Thompson (NSF)
Regency Ballroom E, Ballroom Level
- 12:30 pm **Adjourn**



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