

2007 Workshop for New Physics and Astronomy Faculty

Thursday, November 8

- 11:00am -** **Workshop Registration – Holiday Inn, College Park**
- 1:00-2:30pm** **Optional Workshop on Grant Writing**
NSF Program Officers: Physics, Astronomy, Materials Research
- 2:30-3:30pm** **Optional Workshop: Funding Opportunities at Research Corporation**
Richard Wiener, Research Corporation
- 3:30-4:00 pm** **Break**
- 4:00-4:15pm** **Welcome and Opening Remarks**
Robert Hilborn, University of Nebraska-Lincoln: Chair, New Physics and
Astronomy Faculty Workshop
Toufic Hakim, AAPT Executive Officer
Judy Franz, APS Executive Officer
Kevin Marvel, AAS Executive Officer
- 4:15-6:15 pm** **Large Group Session I**
*"Research in Physics Education: A resource for improving student
learning"*
Lillian C. McDermott, Peter S. Shaffer, and MacKenzie R. Stetzer,
Department of Physics, University of Washington
- 6:15 – 7:05 pm** **Large Group Session II**
"Introduction to Peer Instruction"
Eric Mazur, Balkanski Professor of Physics and of Applied Physics, Harvard
University
- 7:15- 8:15pm** **Dinner – Sponsored by Research Corporation**

Friday, November 9

- 6:00 - 7:45 am** **Breakfast – Moose Creek Restaurant, Holiday Inn**
- 8:00 am** **Shuttle bus leaves for American Center for Physics**
- 8:30-9:20 am** **Large Group Session III**
"Peer Instruction Workshop"
Eric Mazur, Balkanski Professor of Physics and of Applied Physics, Harvard
University
Conference Room A
- 9:30 – 10:20 am** **Large Group Session IV**
"Active Learning with Interactive Lecture Demonstrations"
David Sokoloff, University of Oregon
Ronald Thornton, Tufts University

- Conference Room A
- 10:20 – 10:40** **Refreshment Break – ACP Rotunda**
- 10:40-11:30am** **Small Group Sessions**
Active Learning with Real Time Physics and Interactive Lecture Demonstrations (I) - Conference Room A
David Sokoloff and Ron Thornton
Teaching and Modeling using Physlets and Open Source Physics (II) - Conference Room B
Wolfgang Christian and Mario Belloni, Davidson College
Digital Libraries (III) - Conference Room C
Bruce Mason, University of Oklahoma
- 11:30-12:20pm** **Small Group Sessions**
Real Time Physics (II) – Conference Room A
Physlets and Open Source Physics (III)– Conference Room B
Digital Libraries (I) – Conference Room C
- 12:30-1:30pm Lunch** – ACP Cafeteria
- 1:30-2:20pm** **Small Group Session**
Real Time Physics (III) – Conference Room A
Physlets and Open Source Physics (I) – Conference Room B
Digital Libraries (II) – Conference Room C
- 2:30-3:20pm** **Large Group Session V**
“Are You Really Teaching if No One is Learning? Gauging the Success of Instruction Through Research”
Edward Prather, University of Arizona
Conference Room A
- 3:30 – 4:00pm** **Refreshment Break – ACP Rotunda**
- 4:00 – 4:50pm** **Large Group Session VI**
“Assessment and Evaluation”
Karen Cummings, Southern Connecticut State University
Conference Room A
- 5:00-5:45pm** **Small Group Sessions**
Ph.D. Granting Institutions – Conference Room A
M.S. Granting Institutions – Conference Room B
B.S. Granting Institutions – Conference Room C
- 6:00 -7:00pm** **Dinner** – ACP Cafeteria
- 7:00 - 8:30pm** ***“The Physics IQ Test”***
Richard Berg, University of Maryland
Conference Room A

Saturday, November 10

- 6:00 – 7:45am** **Breakfast – Moose Creek Restaurant, Holiday Inn**
- 8:00am** **Shuttle bus leaves for American Center for Physics**
- 8:30-9:20am** **Large Group Session VII**
"How to Get Your Students to Prepare for Every Class"
 Evelyn Patterson, U.S. Air Force Academy
 Conference Room A
- 9:30-10:15am** **Small Group Sessions**
Introductory Physics (I) – Conference Room A
Astronomy (II) – Conference Room B
 Ed Prather and Gina Brissenden
Upper-level Physics (III) – Conference Room C
- 10:15 – 10:30 **Break – ACP Rotunda**
- 10:30-11:15am** **Small Group Sessions**
Introductory Physics (III) – Conference Room A
Astronomy (I) – Conference Room B
Upper-level Physics (II) – Conference Room C
- 11:15 - noon** **Small Group Sessions**
Introductory Physics (II) – Conference Room A
Astronomy (III) – Conference Room B
Upper-level Physics (I) – Conference Room C
- 12:00-1:00 pm** **Lunch – ACP Cafeteria**
- 1:00-1:50pm** **Large Group Session VI**
"Help Your Students Develop Expertise in Problem Solving"
 Ken Heller, University of Minnesota
 Conference Room A
- 2:00-2:50pm** **Small Group Sessions**
QuiLT: Quantum Interactive Learning Tutorials (I) – Conference Room A
 Chandralekha Singh, University of Pittsburgh
Problem Solving (II) – Conference Room B
 Ken Heller
Tenure Matters and Time Management (III) – Conference Room C
 Bob Hilborn and others
- 3:00-3:30pm** **Refreshment Break – ACP Rotunda**
- 3:30-4:20 pm** **Small Group Sessions**
Quantum Interactive Learning Tutorials (II) – Conference Room A
Problem Solving (III) – Conference Room B
Tenure Matters and Time Management (I)– Conference Room C
- 4:30-5:20pm** **Small Group Sessions**
Quantum Interactive Learning Tutorials (III) – Conference Room A

Problem Solving (I) – Conference Room B
Tenure Matters and Time Management (II)– Conference Room C

5:30-6:00pm **Reception** – ACP Rotunda

6:00-7:30pm **Dinner** – ACP Cafeteria

Sunday, November 11

7:00 - 8:45am **Breakfast** – Moose Creek Restaurant, Holiday Inn

Hotel Check-Out

8:45 am **Shuttle bus leaves for American Center for Physics**

9:15-9:30am **Administrative Items**
Conference Room A

9:30-11:30am **Large Group Session VIII**
"Making a Difference: Teaching for Retention"
Jim Stith, American Institute of Physics
Conference Room A

11:30-Noon **Final Summary, Evaluations and Adjournment**