THE WORKSHOP FOR NEW PHYSICS AND ASTRONOMY FACULTY IS SPONSORED BY

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Timothy Slater
University of Wyoming

Steven Turley
Brigham Young University

Cover photo credit: Gordon R. Gore, Kamloops, British Columbia, of the Supermoon, fall 2014
<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mario Belloni</td>
<td>Davidson College</td>
<td><a href="mailto:mbelloni@davidson.edu">mbelloni@davidson.edu</a></td>
</tr>
<tr>
<td>Richard Berg</td>
<td>University of Maryland</td>
<td><a href="mailto:reberg@physics.umd.edu">reberg@physics.umd.edu</a></td>
</tr>
<tr>
<td>Gina Brissenden</td>
<td>University of Arizona</td>
<td><a href="mailto:gbrissenden@as.arizona.edu">gbrissenden@as.arizona.edu</a></td>
</tr>
<tr>
<td>Karen Cummings</td>
<td>Southern Connecticut State University</td>
<td><a href="mailto:cummingsk2@southernct.edu">cummingsk2@southernct.edu</a></td>
</tr>
<tr>
<td>Michael Dubson</td>
<td>University of Colorado-Boulder</td>
<td><a href="mailto:michael.dubson@colorado.edu">michael.dubson@colorado.edu</a></td>
</tr>
<tr>
<td>James Fraser</td>
<td>Queen's University</td>
<td><a href="mailto:drjfraser@gmail.com">drjfraser@gmail.com</a></td>
</tr>
<tr>
<td>Andrew Gavrin</td>
<td>Indiana University-Purdue University-Indianapolis</td>
<td><a href="mailto:agavrin@iupui.edu">agavrin@iupui.edu</a></td>
</tr>
<tr>
<td>Kenneth Heller</td>
<td>University of Minnesota</td>
<td><a href="mailto:heller@physics.umn.edu">heller@physics.umn.edu</a></td>
</tr>
<tr>
<td>Robert Hilborn, Workshop Chair</td>
<td>American Association of Physics Teachers</td>
<td><a href="mailto:rhilborn@aapt.org">rhilborn@aapt.org</a></td>
</tr>
<tr>
<td>Arlene Modeste Knowles</td>
<td>American Physical Society</td>
<td><a href="mailto:knowles@aps.org">knowles@aps.org</a></td>
</tr>
<tr>
<td>Corinne Manogue</td>
<td>Oregon State University</td>
<td><a href="mailto:corinne@physics.oregonstate.edu">corinne@physics.oregonstate.edu</a></td>
</tr>
<tr>
<td>Lillian C. McDermott</td>
<td>University of Washington</td>
<td><a href="mailto:lcmcd@phys.washington.edu">lcmcd@phys.washington.edu</a></td>
</tr>
<tr>
<td>Edward Prather</td>
<td>University of Arizona</td>
<td><a href="mailto:eprather@as.arizona.edu">eprather@as.arizona.edu</a></td>
</tr>
<tr>
<td>Eleanor Sayre</td>
<td>Kansas State University</td>
<td><a href="mailto:esayre@gmail.com">esayre@gmail.com</a></td>
</tr>
<tr>
<td>Peter Shaffer</td>
<td>University of Washington</td>
<td><a href="mailto:shaffer@phys.washington.edu">shaffer@phys.washington.edu</a></td>
</tr>
<tr>
<td>Tim Slater</td>
<td>University of Wyoming</td>
<td><a href="mailto:timslaterwoyo@gmail.com">timslaterwoyo@gmail.com</a></td>
</tr>
<tr>
<td>David Sokoloff</td>
<td>University of Oregon</td>
<td><a href="mailto:sokoloff@uoregon.edu">sokoloff@uoregon.edu</a></td>
</tr>
<tr>
<td>Ron Thornton</td>
<td>Tufts University-CSMT</td>
<td><a href="mailto:ronald.thornton@tufts.edu">ronald.thornton@tufts.edu</a></td>
</tr>
</tbody>
</table>
WORKSHOP PARTICIPANTS

Tan Ahn
University of Notre Dame

Kurt M. Aikens
Houghton College

Monique C. Aller
Georgia Southern University

Ashley A. August
Georgia Southern University

Snjezana Balaz
Youngstown State University

Andrew Baruth
Creighton University

Brett Barwick
Trinity College

Pierre-Hugues Beauchemin
Tufts University

Veronica Bindi
University of Hawaii at Manoa

Zbigniew Chajecki
Western Michigan University

Shuo Chen
University of Houston

TeYu Chien
University of Wyoming

Yongki Choi
North Dakota State University

Manoel Couder
University of Notre Dame

Erin M. Craig Ricketson
Central Washington University

Analia Dall’Asen
Minnesota State Univ. - Mankato

John H. Day
Morris College

Narelle H. Deatherage
Truman State University

Veronica Dexheimer
Kent State University

Sarit Dhar
Auburn University

Cristiano Luis Dias
New Jersey Institute of Tech.

Evie Downie
The George Washington University

Ileana Dumitriu
Hobart and William Smith Colleges

Laurentiu D. Dumitriu
Spelman College

James J. Hamlin
University of Florida

Eric Hazlett
Carleton College

James Hedberg
City University of New York

Larry D. Isenhower
Abilene Christian University

Richard A. Jinkerson
Abilene Christian University

Steven Johnston
Univ. of Tennessee - Knoxville

Dwayne C. Joseph
Morehouse College

Oleg Kargaltsev
The George Washington University

Samuel M. Kelly
Univ. of Minnesota - Duluth

Michael Kesden
University of Texas at Dallas

Ehsan Khatami
San Jose State University

Kirill S. Korolev
Boston University

Irma Kuljanishvili
Saint Louis University

Yucheng Lan
Morgan State University

Truong V. Le
Berry College

Mariangela Lisanti
Princeton University

Robynne M. Lock
Texas A&M Univ. - Commerce

Jaan Mannik
Univ. of Tennessee - Knoxville

Sonny Mantry
University of North Georgia

Camillo Mariani
Virginia Poly. Inst. & State Univ.

Abigail R. Mechtenberg
Colgate University

David J. P. Morris
Xavier University - Cincinnati

Andrew Mugler
Purdue Univ. - West Lafayette

Zahra Nasrollahi
New Mexico State University

Kerstin Nordstrom
Mount Holyoke College

Birol Ozturk
Morgan State University
## Workshop Participants

<table>
<thead>
<tr>
<th>Name</th>
<th>University/Mentorship</th>
<th>Breakout</th>
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</thead>
<tbody>
<tr>
<td>Anne Pellerin</td>
<td>SUNY - Geneseo</td>
<td>Breakout III</td>
</tr>
<tr>
<td>J. Archibald Peters</td>
<td>Chicago State University</td>
<td>Breakout I</td>
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<tr>
<td>Lionel O. Pittman</td>
<td>Chicago State University</td>
<td>Breakout II</td>
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<tr>
<td>Prabhakar Pradhan</td>
<td>University of Memphis</td>
<td>Breakout III</td>
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<tr>
<td>Chitra Raju Nayak</td>
<td>Tuskegee University</td>
<td>Breakout I</td>
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<tr>
<td>Aaron W. Reinhard</td>
<td>Otterbein University</td>
<td>Breakout II</td>
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<tr>
<td>Tim Rich</td>
<td>Rust College</td>
<td>Breakout III</td>
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<tr>
<td>Chris Richardson</td>
<td>Elon University</td>
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<tr>
<td>Eduardo Rozo</td>
<td>University of Arizona</td>
<td>Breakout II</td>
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<tr>
<td>Gillian L. Ryan</td>
<td>Kettering University</td>
<td>Breakout III</td>
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<tr>
<td>Amir Safavi-Naeini</td>
<td>Stanford University</td>
<td>Breakout I</td>
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<tr>
<td>David J. Schwab</td>
<td>Northwestern University</td>
<td>Breakout II</td>
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<tr>
<td>Anna M. Simon</td>
<td>University of Notre Dame</td>
<td>Breakout III</td>
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<tr>
<td>Darci Snowden</td>
<td>Central Washington University</td>
<td>Breakout III</td>
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<tr>
<td>Jonathan J. Stott</td>
<td>Fairfield University</td>
<td>Breakout II</td>
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<tr>
<td>Alison Sweeney</td>
<td>University of Pennsylvania</td>
<td>Breakout III</td>
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<tr>
<td>Jeffery Teo</td>
<td>University of Virginia</td>
<td>Breakout I</td>
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<tr>
<td>Balsa Terzic</td>
<td>Old Dominion University</td>
<td>Breakout II</td>
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<tr>
<td>Lyubov Titova</td>
<td>Worcester Polytechnic Institute</td>
<td>Breakout III</td>
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<tr>
<td>Mark K. Transtrum</td>
<td>Brigham Young University</td>
<td>Breakout III</td>
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<tr>
<td>Adrienne L. Traxler</td>
<td>Wright State University</td>
<td>Breakout II</td>
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<tr>
<td>Alex Zakhidov</td>
<td>Texas State Univ. - San Marcos</td>
<td>Breakout III</td>
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<tr>
<td>Representatives of the Chinese Physical Society</td>
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<tr>
<td>Qiang Chen</td>
<td>Beihang University</td>
<td>Breakout I</td>
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<tr>
<td>Dongmei Gu</td>
<td>Chinese Physical Society</td>
<td>Breakout II</td>
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<tr>
<td>Mu Gu</td>
<td>Tongji University</td>
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<tr>
<td>Xiaofeng Jin</td>
<td>Fudan University</td>
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<tr>
<td>Bangfen Zhu</td>
<td>Tsinghua University</td>
<td>Breakout I</td>
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### THURSDAY, NOVEMBER 13

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>11 A.M.–6:00 P.M.</td>
<td>Workshop Registration</td>
<td>Grand Ballroom Foyer</td>
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<tr>
<td></td>
<td>Holiday Inn - College Park, MD</td>
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<tr>
<td>1:30–3:00 P.M.</td>
<td>Workshop</td>
<td>Grand Ballroom AB</td>
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<tr>
<td></td>
<td>Effective Grant Proposal Writing and Grant Opportunities</td>
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<tr>
<td></td>
<td>with Research Corporation</td>
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<tr>
<td></td>
<td>Richard Weiner, Program Officer, Research Corporation for Science</td>
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<tr>
<td></td>
<td>Advancement; <a href="mailto:rweiner@rescorp.org">rweiner@rescorp.org</a></td>
<td></td>
</tr>
<tr>
<td>3:00–4:30 P.M.</td>
<td>Workshop</td>
<td>Grand Ballroom AB</td>
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<tr>
<td></td>
<td>Grant Opportunities at the National Science Foundation</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Joyce Evans, Div. of Undergraduate Education, <a href="mailto:jevans@nsf.gov">jevans@nsf.gov</a></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Kevin Lee, Division of Undergraduate Education, <a href="mailto:klee@nsf.gov">klee@nsf.gov</a></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Kathleen McCloud, Division of Physics, <a href="mailto:kmcloud@nsf.gov">kmcloud@nsf.gov</a></td>
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<tr>
<td></td>
<td>James Neff, Division of Astronomical Sciences, <a href="mailto:jneff@nsf.gov">jneff@nsf.gov</a></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Guebre Tessema, Div. of Materials Research, <a href="mailto:gtessema@nsf.gov">gtessema@nsf.gov</a></td>
<td></td>
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<tr>
<td>4:30–5:00 P.M.</td>
<td>Break</td>
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<tr>
<td>5:00–5:15 P.M.</td>
<td>Opening Remarks</td>
<td>Grand Ballroom AB</td>
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<tr>
<td></td>
<td>Welcome and Introductions</td>
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<tr>
<td></td>
<td>Robert Hilborn, Associate Executive Officer, AAPT,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chair, Physics and Astronomy New Faculty Workshop</td>
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<td></td>
<td>Beth Cunningham, Executive Officer, AAPT</td>
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<tr>
<td></td>
<td>Cathy O’Riordan, Physics Resources Vice President, AIP</td>
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<td></td>
<td>Kate Kirby, Executive Officer, APS</td>
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<tr>
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<td>Kevin Marvel, Executive Officer, AAS</td>
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<tr>
<td>5:15–6:15 P.M.</td>
<td>Large Group Session</td>
<td>Grand Ballroom AB</td>
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<tr>
<td></td>
<td>Learner-Centered Teaching in Physics and Astronomy</td>
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<td></td>
<td>Edward Prather, University of Arizona</td>
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<tr>
<td>6:15–7:30 P.M.</td>
<td>Dinner</td>
<td>Grand Ballroom CD</td>
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<tr>
<td>7:30–8:30 P.M.</td>
<td>Large Group Session</td>
<td>Grand Ballroom AB</td>
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<td></td>
<td>Think-Pair-Share Practical Details</td>
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<td></td>
<td>Edward Prather, University of Arizona</td>
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### FRIDAY, NOVEMBER 14

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<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>6:30–7:30 A.M.</td>
<td>Breakfast</td>
<td>Moose Creek Steak House</td>
</tr>
<tr>
<td>8:00 A.M.</td>
<td>Shuttle Bus Leaves (on time) for American Center for Physics</td>
<td></td>
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<tr>
<td>8:30–9:30 A.M.</td>
<td>Large Group Session</td>
<td>Conference Room A</td>
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<tr>
<td></td>
<td>Interactive Lecture Demonstrations</td>
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<tr>
<td></td>
<td>David Sokoloff, University of Oregon</td>
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<td></td>
<td>Ron Thornton, Tufts University</td>
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<tr>
<td>9:30–10:15 A.M.</td>
<td>Small Group Sessions</td>
<td>Conference Room A</td>
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<tr>
<td></td>
<td>Upper-Level Curriculum (I - breakout group)</td>
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<tr>
<td></td>
<td>Corinne Manogue, Oregon State University</td>
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</tbody>
</table>
Friday, November 14 (cont.)

Real-Time Physics / ILD (II - breakout group)  
David Sokoloff, University of Oregon, and Ron Thornton, Tufts University

Lecture Tutorials (III - breakout group)  
Edward Prather and Gina Brissenden, University of Arizona

10:15–10:45 A.M.  
BREAK  
ACP ROTUNDA

10:45–11:30 A.M.  
SMALL GROUP SESSIONS

Upper-Level Curriculum (II)  
Corinne Manogue

Real-Time Physics / ILD (III)  
David Sokoloff and Ron Thornton

Lecture Tutorials (I)  
Edward Prather and Gina Brissenden

11:30 A.M.–12:15 P.M.  
SMALL GROUP SESSIONS

Upper-Level Curriculum (III)  
Corinne Manogue

Real-Time Physics / ILD (I)  
David Sokoloff and Ron Thornton

Lecture Tutorials (II)  
Edward Prather and Gina Brissenden

12:15–1:15 P.M.  
GROUP PHOTO AND LUNCH  
ACP CAFETERIA

1:15–2:15 P.M.  
LARGE GROUP SESSION  
Peer Instruction  
James Fraser, Queen’s University

2:15–3:15 P.M.  
SMALL GROUP DISCUSSIONS  
Topics from Pre-Workshop Survey

3:15–3:45 P.M.  
BREAK  
ACP ROTUNDA

3:45–4:45 P.M.  
LARGE GROUP SESSION  
Just-in-Time Teaching  
Andy Gavrin, Indiana University-Purdue University-Indianapolis

4:45–5:45 P.M.  
LARGE GROUP SESSION  
Evaluation and Assessment  
Karen Cummings, Southern Connecticut State University

5:45 P.M.  
SHUTTLE BUS LEAVES FOR HOLIDAY INN - COLLEGE PARK

6:30–7:30 P.M.  
DINNER - HOLIDAY INN - COLLEGE PARK  
GRAND BALLROOM AB

7:30–8:30 P.M.  
LARGE GROUP SESSION  
The Physics IQ Test  
Richard Berg, University of Maryland, College Park
SATURDAY, NOVEMBER 15

6:30–7:30 A.M.  BREAKFAST - Holiday Inn - College Park  Moose Creek Steak House

7:45 A.M.  SHUTTLE BUS LEAVES (ON TIME) FOR AMERICAN CENTER FOR PHYSICS

8:30–10:00 A.M.  LARGE GROUP SESSION  CONFERENCE ROOM A

Research in Physics Education: A Resource for Improving Student Learning
Lillian C. McDermott and Peter Shaffer, University of Washington

10:00–10:30 A.M.  BREAK  ACP ROTUNDA

10:30–11:15 A.M.  SMALL GROUP SESSIONS

Interactive Engagement in Upper-Level Courses (I)
Corinne Manogue, Oregon State University

PhET Simulations (II)
Michael Dubson, University of Colorado, Boulder

Physlets, Open Source Physics, Easy-Java Scripts (III)
Mario Belloni, Davidson College

11:15 A.M.–12:00 P.M.  SMALL GROUP SESSIONS

Interactive Engagement in Upper-Level Courses (II)
Corinne Manogue

PhET Simulations (III)
Michael Dubson

Physlets, Open Source Physics, Easy-Java Scripts (I)
Mario Belloni

12:00–1:00 P.M.  LUNCH  ACP CAFETERIA

1:00–1:45 P.M.  SMALL GROUP SESSIONS

Interactive Engagement in Upper-Level Courses (III)
Corinne Manogue

PhET Simulations (I)
Michael Dubson

Physlets, Open Source Physics, Easy-Java Scripts (II)
Mario Belloni

1:45–2:30 P.M.  SMALL GROUP SESSIONS

Participants from Ph.D.-granting Institutions  CONFERENCE ROOM A

Participants from Primarily Undergraduate Institutions  CONFERENCE ROOM C

2:30–3:00 P.M.  BREAK  ACP ROTUNDA

3:00–4:00 P.M.  LARGE GROUP SESSION  CONFERENCE ROOM A

Problem Solving
Ken Heller, University of Minnesota

4:00–4:45 P.M.  SMALL GROUP SESSIONS

Digital Libraries (I)
Eleanor Sayre, Kansas State University

Tenure Matters (II)
Robert Hilborn, AAPT

Problem Solving (III)
Ken Heller, University of Minnesota
SATURDAY, NOVEMBER 15 (CONT.)

4:45–5:30 p.m.  SMALL GROUP SESSIONS
Digital Libraries (II)        CONFERENCE ROOM A
Eleanor Sayre
Tenure Matters (III)        CONFERENCE ROOM B
Robert Hilborn
Problem Solving (I)        CONFERENCE ROOM C
Ken Heller

5:30–6:15 p.m.  SMALL GROUP SESSIONS
Digital Libraries (III)        CONFERENCE ROOM A
Eleanor Sayre
Tenure Matters (I)        CONFERENCE ROOM B
Robert Hilborn
Problem Solving (II)        CONFERENCE ROOM C
Ken Heller

6:15 p.m.  SHUTTLE BUS LEAVES FOR HOLIDAY INN - COLLEGE PARK

6:45–7:45 p.m.  DINNER
GRAND BALLROOM AB

7:45–8:15 p.m.  LARGE GROUP SESSION
GRAND BALLROOM AB
Case Study as a Way to Understand Physics
Xiaofeng Jin, Fudan University, Shanghai

SUNDAY, NOVEMBER 16

6:30–7:45 a.m.  BREAKFAST - HOLIDAY INN - COLLEGE PARK
MOOSE CREEK STEAK HOUSE
Hotel Checkout - by 12:00 noon

8:15–9:00 a.m.  LARGE GROUP SESSION
GRAND BALLROOM AB
Case Study Discussion of Student Behavior
Tim Slater, University of Wyoming

9:00–10:15 a.m.  LARGE GROUP SESSION
GRAND BALLROOM AB
Teaching for Retention and Diversity
Arlene Modeste Knowles, American Physical Society

10:15–10:30 a.m.  BREAK
GRAND BALLROOM FOYER

10:30–11:15 a.m.  LARGE GROUP SESSION
GRAND BALLROOM AB
Time Management
Tim Slater, University of Wyoming

11:15 –11:30 a.m.  LARGE GROUP SESSION
GRAND BALLROOM AB
Evaluation Procedures, Final Words, Adjourn
Founded in 1930, AAPT is the premier professional society established to advance the greater good through physics education. With the support of our members worldwide, AAPT is an action oriented organization designed to develop, improve, and promote best practices for physics education as part of the global need for qualified Science, Technology, Engineering, and Mathematics teachers who will inspire tomorrow’s leaders and decision makers.

We serve our members through networking, publications, and programs, but also reach out to the larger community of physics and science teachers—current and future—and we look after issues of significance in science education. Our national office works closely with our dedicated volunteers around the world to promote a better understanding of physics at all levels.

AAPT provides networking opportunities through online discussion lists, social media, the Workshops for New Physics and Astronomy Faculty (with APS and AAS); Physics Department Chairs Conference (with APS), and our two national annual meetings. The association supports physics educators through our publications, the *American Journal of Physics* and *The Physics Teacher*; Physical Review Special topics – Physics Education Research (with APS and the APS Forum on Education) and the eNNOUNCER; NSF-funded programs including the PER User’s Guide, the Physics Teacher Education Coalition, PhysTEC (with APS); Physics Teaching Resource Agents institutes; the digital physics library, ComPADRE (with APS and AIP); Physics Program Reviews, and the student programs and scholarships that we administer, including the Lotze Scholarship for Future Teachers.

The American Astronomical Society promotes the advancement of astronomy and closely related branches of science. It was founded in 1899. AAS members include professional researchers in the astronomical sciences, and also educators, students, and others interested in the advancement of astronomical research. The Society operates in five major areas: Publications, Meetings, Education, Public Policy and Employment in order to ensure that astronomy remains healthy and vital for the benefit of our profession and society at large.

AMERICAN PHYSICAL SOCIETY

With 50,000 members worldwide, the American Physical Society works to advance and disseminate the knowledge of physics. Since its formation in 1899, it has been dedicated to providing its members and the international physics community with the latest research results through meetings and the most highly respected international journals in physics. These journals include Physical Review Letters, the Physical Review (with a Special Topics series including a journal on Physics Education Research), Reviews of Modern Physics, and its two newest journals, Physical Review Applied and PRX. The APS conducts more than 20 meetings per year, to connect physicists and disseminate physics knowledge and information relevant to the community. In addition, APS vigorously lobbies for funding for physics research and education, provides the physics community with timely information about government affairs, carries out studies of physics-based topics of importance to the country, and promotes the interests of the physics community through extensive public information efforts such as www.PhysicsCentral.com, a website for the public.

APS is actively involved in programs to improve undergraduate and graduate education and to improve the preparation of future physics and physical science teachers through its leadership in the Physics Teacher Education Coalition (www.PhysTEC.org). APS partners with AAPT in PhysTEC and on numerous other education programs including, the New Faculty Workshop, and conferences and workshops on education at various levels. For many years APS has worked to increase diversity in the physics community, and in 2012 launched the APS Bridge Program (www.apsbridgeprogram.org), a national effort to increase the number of underrepresented minorities that receive a PhD in Physics. In addition, APS recently began sponsorship of the Conferences for Undergraduate Women in Physics – regional conferences to encourage participation of women in the discipline.

AMERICAN INSTITUTE OF PHYSICS

AIP’s mission is to advance, promote and serve the physical sciences for the benefit of humanity.

AIP offers authoritative information, services, and expertise in physics education and student programs, science communication, government relations, career services for science and engineering professionals, statistical research in physics employment and education, industrial outreach, and the history of physics and allied fields.

AIP Member Societies cover a broad range of fields in the physical sciences and collectively represent more than 120,000 scientists, engineers, educators and students in the global physical sciences community.