NEW FACULTY WORKSHOP ADVISORY COMMITTEE

Edmund Bertschinger
Massachusetts Institute of Technology

Beth Cunningham
American Association of Physics Teachers

Paul Gueye
Hampton University

Jack Hehn
American Association of Physics Teachers

Warren Hein
American Association of Physics Teachers (retired)

Robert Hilborn, PI
American Association of Physics Teachers

Theodore Hodapp, co-PI
American Physical Society

Seth Hornstein
University of Colorado – Boulder

Tim McKay
University of Michigan

Laurie McNeil
University of North Carolina – Chapel Hill

Jesus Pando
DePaul University

Edward Prather, co-PI
University of Arizona

Marilyne Stains
University of Nebraska – Lincoln

Jodi Wesemann
American Chemical Society
WORKSHOP LEADERS

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ronald.thornton@tufts.edu

Mike Wood
University of St. Thomas
St. Paul, MN
mpwood@stthomases.edu
<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
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<tbody>
<tr>
<td>Ramesh Adhikari</td>
<td>Jacksonville University</td>
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<tr>
<td>Sheehan Haider Ahmed</td>
<td>Lafayette College</td>
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<tr>
<td>Can Ataca</td>
<td>University of Maryland - Baltimore County</td>
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<tr>
<td>Adam Aurisano</td>
<td>University of Cincinnati - Main Campus</td>
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<td>Akaa Daniel Ayangeakaa</td>
<td>United States Naval Academy</td>
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<td>Sean P. Bartz</td>
<td>Macalester College</td>
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<td>Bhubanjyoti Bhattacharya</td>
<td>Lawrence Tech University</td>
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<td>Tabetha Boyajian</td>
<td>Louisiana State University</td>
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<td>Theodore A. Brzinski, III</td>
<td>Haverford College</td>
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<td>Ashley Cannaday</td>
<td>Rollins College</td>
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<td>Yeliz Celik</td>
<td>Rochester Institute of Technology</td>
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<td>Tyler Churchill</td>
<td>United States Naval Academy</td>
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<td>Ryan Comes</td>
<td>Auburn University</td>
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<td>Robert Cooper</td>
<td>New Mexico State University</td>
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<td>Blake Currier</td>
<td>Worcester Polytechnic Institute</td>
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<tr>
<td>Bhupal Dev</td>
<td>Washington University in St. Louis</td>
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<td>Pratik P. Dholabhai</td>
<td>Rochester Institute of Technology</td>
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<td>Brian Donovan</td>
<td>United States Naval Academy</td>
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<td>Michelle Driscoll</td>
<td>Northwestern University</td>
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<td>Mary Elting</td>
<td>North Carolina State University</td>
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<td>Carl D. Ferkinhoff</td>
<td>Winona State University</td>
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<td>Francois Foucart</td>
<td>University of New Hampshire</td>
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<td>Josh Fuchs</td>
<td>Texas Lutheran University</td>
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<td>Cody Goolsby-Cole</td>
<td>University of Maryland - Baltimore County</td>
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<td>Natalie Gosnell</td>
<td>Colorado College</td>
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<td>Rebecca Harbison</td>
<td>University of Nebraska - Lincoln</td>
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<td>Seyed Mohammad Hashemi Rafsanjani</td>
<td>University of Miami</td>
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<td>Mohammed Hassan</td>
<td>University of Arizona - Tucson</td>
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<td>Chris Herdman</td>
<td>Middlebury College</td>
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<td>Paul William Hess</td>
<td>Middlebury College</td>
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<td>Jeffrey Hyde</td>
<td>Goucher College</td>
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<td>Andrew Miller Jayich</td>
<td>University of California - Santa Barbara</td>
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<td>Bindu KC</td>
<td>Emporia State University</td>
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<td>Andrea Kunder, Esq.</td>
<td>Saint Martin's University</td>
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<td>Stephanie Lauback</td>
<td>Juniata College</td>
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<td>Thanh K. Le</td>
<td>University of Maine</td>
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<tr>
<td>Yi Li</td>
<td>Johns Hopkins University</td>
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<tr>
<td>Elena Long</td>
<td>University of New Hampshire</td>
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<tr>
<td>Katherine Mack</td>
<td>North Carolina State University</td>
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<tr>
<td>Louis McLane</td>
<td>Rochester Institute of Technology</td>
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WORKSHOP PARTICIPANTS

Sandra Miarecki  
United States Air Force Academy

Steven Morgan  
University of Minnesota

Santoshi Nandivada  
Arkansas Tech University

Elizabeth A. Nowadnick  
New Jersey Institute of Technology

Brad Ramshaw  
Cornell University

Amy Roberts  
University of Colorado - Denver

Paul Robertson  
University of California - Irvine

Kevin Schlaufman  
Johns Hopkins University

Francesca Serra  
Johns Hopkins University

Shanmuka Shivashankara  
Providence College

Jason Smolinski  
Calvin College

Alfredo Takashi Suzuki  
La Sierra University

Richelle M. Teeling-Smith  
University of Mount Union College

Katherine Truex  
United States Naval Academy

Madeline Wade  
Kenyon College

Jef Wagner  
Lawrence University

Kalpani Werellapatha  
University of Maine

Nicholas Whiting  
Rowan University

Bin Xiao  
North Carolina State University

Junjie Yang  
Central Michigan University
MONDAY, JUNE 25

11:00 A.M.–5:00 P.M.  WORKSHOP REGISTRATION  GRAND BALLROOM FOYER
Holiday Inn – College Park, 10000 Baltimore Ave., Beltsville, MD 20740

1:30–3:00 P.M.  WORKSHOP  GRAND BALLROOM AB
Effective Grant Proposal Writing and Grant Opportunities with Research Corporation
Richard Weiner, Program Officer, Research Corporation for Science Advancement; rweiner@rescorp.org

3:00–4:30 P.M.  WORKSHOP  GRAND BALLROOM AB
Grant Opportunities at the National Science Foundation
Kathleen McCloud, Division of Physics, kmcloud@nsf.gov
Keith Dienes, Division of Physics, kdienes@nsf.gov
Joe Pesce, Division of Astronomical Sciences, jpesce@nsf.gov
Guebre Tessema, Division of Materials Research, gtessema@nsf.gov

4:30–4:45 P.M.  BREAK  GRAND BALLROOM FOYER

4:45–5:15 P.M.  WELCOMING REMARKS  GRAND BALLROOM AB
Welcome and Introductions
Robert Hilborn, Associate Executive Officer, AAPT, PI, Physics and Astronomy New Faculty Workshop
Beth Cunningham, Executive Officer, AAPT
Kate Kirby, Chief Executive Officer, APS
Kevin Marvel, Executive Officer, AAS
Michael Moloney, Chief Executive Officer, AIP

5:15–6:30 P.M.  LARGE GROUP SESSION  GRAND BALLROOM AB
Highlighting PER – The Journey from Traditional Instruction to Active Learning
Laurie McNeil, University of North Carolina – Chapel Hill

6:30–7:30 P.M.  DINNER  GRAND BALLROOM CD

7:30–8:30 P.M.  LARGE GROUP SESSION  GRAND BALLROOM AB
Change and Adoption: Scaffolding Your New Faculty Workshop Experience
Cassandra Horii, California Institute of Technology

TUESDAY, JUNE 26

6:30–8:30 A.M.  BREAKFAST AND NETWORKING: HOLIDAY INN RESTAURANT– COLLEGE PARK

8:30–8:40 A.M  INTRODUCTIONS AND FOLC ANNOUNCEMENT  GRAND BALLROOM AB
Robert Hilborn, AAPT; Andy Rundquist, Hamline University; Darsa Donelan, Gustavus Adolphus College; and Mike Wood, University of St. Thomas

8:40–9:55 A.M.  LARGE GROUP SESSION  GRAND BALLROOM AB
Learner Centered Teaching in Physics and Astronomy
Ed Prather, University of Arizona
TUESDAY, JUNE 26 (CONT.)

9:55–10:10 a.m.  BREAK  GRAND BALLROOM FOYER

10:10–11:10 a.m.  SMALL GROUP SESSIONS  (PARTICIPANTS CHOOSE THREE OF THE FOUR SESSIONS)

1) Interactive Lecture Demonstrations  GRAND BALLROOM A
   Lillian C. McDermott and Peter Shaffer, University of Washington

2) Tutorials in Physics  GRAND BALLROOM B
   Andy Gavrin, Indiana University-Purdue University-Indianapolis

3) Just-in-Time Teaching  GRAND BALLROOM C
   Kathy Perkins, University of Colorado – Boulder

4) PhET simulations  GRAND BALLROOM D
   Kathy Perkins, University of Colorado – Boulder

11:15 a.m.–12:15 p.m.  SMALL GROUP SESSIONS  (PARTICIPANTS CHOOSE THREE OF THE FOUR SESSIONS)

Repeat from 10:10–11:10 a.m.

12:15–1:15 p.m.  GROUP PHOTO AND LUNCH  GRAND BALLROOM FOYER

1:15–2:15 p.m.  SMALL GROUP SESSIONS  (PARTICIPANTS CHOOSE THREE OF THE FOUR SESSIONS)

Repeat from 10:10–11:10 a.m.

2:15–2:25 p.m.  BREAK  GRAND BALLROOM FOYER

2:25–3:45 p.m.  SMALL GROUP SESSIONS  (PARTICIPANTS CHOOSE ONE OF THE FOUR SESSIONS)

1) Going deeper: PhET  GRAND BALLROOM A
   Kathy Perkins, University of Colorado – Boulder

2) Going deeper: JITT  GRAND BALLROOM B
   Andy Gavrin, Indiana University-Purdue University-Indianapolis

3) Going deeper: TPS (Peer Instruction)  GRAND BALLROOM C
   Ed Prather, University of Arizona

4) Going deeper: Interactive Lecture Demos  GRAND BALLROOM D
   David Sokoloff, Univ. of Oregon and Ronald Thornton, Tufts Univ.

3:45–4:00 p.m.  BREAK  GRAND BALLROOM FOYER

4:00–5:00 p.m.  SMALL GROUP SESSIONS  (PARTICIPANTS CHOOSE TWO OF THE THREE SESSIONS)

1) Labs  GRAND BALLROOM A
   Natasha Holmes, Cornell University

2) Open Source Physics  GRAND BALLROOM B
   Mario Belloni, Davidson College

3) Lecture Tutorials  GRAND BALLROOM C
   Ed Prather, University of Arizona

5:05–6:05 p.m.  SMALL GROUP SESSIONS  (PARTICIPANTS CHOOSE TWO OF THE THREE SESSIONS)

Repeat from 4:00–5:00 p.m.

6:05–6:30 p.m.  BREAK

6:30–7:30 p.m.  DINNER  GRAND BALLROOM CD

7:30–8:30 p.m.  GROUP MEETING  GRAND BALLROOM AB

Faculty Online Learning Community group meeting
Andy Rundquist, Hamline University; Darsa Donelan, Gustavus Adolphus College; and Mike Wood, University of St. Thomas
**WEDNESDAY, JUNE 27**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>6:30–8:30 A.M.</td>
<td><strong>BREAKFAST AND NETWORKING:</strong> HOLIDAY INN RESTAURANT – COLLEGE PARK</td>
<td>GRAND BALLROOM A B</td>
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<td>8:30–9:30 A.M.</td>
<td><strong>LARGE GROUP SESSION</strong></td>
<td>GRAND BALLROOM A B</td>
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<td></td>
<td><em>Interactive Engagement in Upper-Level Courses and Problem Solving</em></td>
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<td></td>
<td>Corinne Manogue, Oregon State University</td>
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<td>9:30–9:45 A.M.</td>
<td><strong>BREAK</strong></td>
<td>GRAND BALLROOM Foyer</td>
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<td>9:45–10:45 A.M.</td>
<td><strong>SMALL GROUP SESSIONS (PARTICIPANTS CHOOSE TWO)</strong></td>
<td>GRAND BALLROOM A B C</td>
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<td></td>
<td>1) Problem Solving in Upper Division</td>
<td>GRAND BALLROOM A</td>
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<td>Corrine Manogue, Oregon State University</td>
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<td></td>
<td>2) Problem Solving in Introductory Physics</td>
<td>GRAND BALLROOM B</td>
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<td>Andy Rundquist, Hamline University</td>
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<td>3) Problem Solving using the TPS Format</td>
<td>GRAND BALLROOM C</td>
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<td>Ed Prather, University of Arizona</td>
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<td>10:50–11:50 A.M.</td>
<td><strong>SMALL GROUP SESSIONS (PARTICIPANTS CHOOSE TWO)</strong></td>
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<td>Repeat from 9:45–10:45 a.m.</td>
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<tr>
<td>11:50 A.M.–12:50 P.M.</td>
<td><strong>LUNCH</strong></td>
<td>GRAND BALLROOM Foyer</td>
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<td>12:50–2:05 P.M.</td>
<td><strong>LARGE GROUP SESSION</strong></td>
<td>GRAND BALLROOM A B</td>
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<td></td>
<td><em>Targeted Instructional Change</em></td>
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<td></td>
<td>Alice Olmstead, Western Michigan University and Natasha Holmes,</td>
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<td></td>
<td>Cornell University</td>
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<td>2:05–2:20 P.M.</td>
<td><strong>BREAK</strong></td>
<td>GRAND BALLROOM Foyer</td>
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<td>2:20–3:20 P.M.</td>
<td><strong>LARGE GROUP SESSION</strong></td>
<td>GRAND BALLROOM A B</td>
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<td><em>PhysPort/ComPADRE, Resources and Assessment</em></td>
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<td>Bruce Mason, University of Oklahoma</td>
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<td>3:20–3:35 P.M.</td>
<td><strong>BREAK</strong></td>
<td>GRAND BALLROOM Foyer</td>
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<td>3:35–4:50 P.M.</td>
<td><strong>LARGE GROUP SESSION</strong></td>
<td>GRAND BALLROOM A B</td>
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<td></td>
<td><em>Your Job as an Instructor and Guide of Marginalized Students</em></td>
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<td>Jorge Moreno, Pomona College and Nicole E. Cabrera Salazar, Movement Consulting</td>
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<td>4:50–5:05 P.M.</td>
<td><strong>BREAK</strong></td>
<td>GRAND BALLROOM Foyer</td>
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<td>5:05–6:05 P.M.</td>
<td><strong>LARGE GROUP SESSION</strong></td>
<td>GRAND BALLROOM A B</td>
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<td><em>Departmental Ecosystems</em></td>
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<td></td>
<td>Ted Hodapp, APS and Andy Rundquist, Hamline University</td>
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<td>6:05–6:30 P.M.</td>
<td><strong>BREAK</strong></td>
<td>GRAND BALLROOM Foyer</td>
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<td>6:30–7:30 P.M.</td>
<td><strong>DINNER</strong></td>
<td>GRAND BALLROOM CD</td>
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<tr>
<td>7:30–8:30 P.M.</td>
<td><strong>SMALL GROUP SESSIONS (PARTICIPANTS CHOOSE ONE)</strong></td>
<td>GRAND BALLROOM A B CD</td>
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<td></td>
<td>1) Tenure Matters: PhD-granting institutions</td>
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<td>Robert Hilborn, AAPT</td>
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<td>2) Tenure Matters: Non-PhD-granting institutions</td>
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<td>Andy Rundquist, Hamline University</td>
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### THURSDAY, JUNE 28

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<tr>
<th>Time</th>
<th>Activity</th>
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<tr>
<td>7:00–8:00 A.M.</td>
<td><strong>Breakfast</strong> — Holiday Inn Restaurant — College Park</td>
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<td>Hotel Checkout – before 12:00 noon</td>
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<td>8:00–8:45 A.M.</td>
<td><strong>LARGE GROUP SESSION</strong></td>
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<td></td>
<td>Grant Opportunities in the NSF Division of Undergraduate Education</td>
</tr>
<tr>
<td></td>
<td>Corby Hovis, Division of Undergraduate Education, <a href="mailto:chovis@nsf.gov">chovis@nsf.gov</a></td>
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<tr>
<td></td>
<td>Steve Turley, Division of Undergraduate Education, <a href="mailto:rturley@nsf.gov">rturley@nsf.gov</a></td>
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<tr>
<td>8:50–10:05 A.M.</td>
<td><strong>LARGE GROUP SESSION</strong></td>
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<td></td>
<td>Discovering the Resources for Solving Problems</td>
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<td></td>
<td>Ted Hodapp, APS and Andy Rundquist, Hamline University</td>
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<tr>
<td>10:05–10:20 A.M.</td>
<td><strong>BREAK</strong></td>
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<td>10:20–11:35 A.M.</td>
<td><strong>LARGE GROUP SESSION</strong></td>
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<td></td>
<td>What Will I Do When I Get Back to the Office?</td>
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<td></td>
<td>Robert Hilborn, AAPT</td>
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<td>11:35–11:55 A.M.</td>
<td><strong>LARGE GROUP SESSION</strong></td>
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<td></td>
<td>Final Words, Evaluation Procedures, and Adjourn</td>
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<td></td>
<td>Robert Hilborn, AAPT</td>
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**2018 SUMMER MEETING**

Join colleagues at the 2018 AAPT Summer Meeting in Washington, D.C. July 28 - August 1. This is your chance to surround yourself with physics educators from around the globe, while attending sessions and workshops, as well as participating in special activities designed with you in mind. Don't miss your opportunity to learn from and network with leaders in the field.

Get the latest information: aapt.org/Conferences/sm2018
AMERICAN ASSOCIATION OF PHYSICS TEACHERS

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 Physics and Astronomy New 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.

AMERICAN ASTROPHYSICAL SOCIETY

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 54,000 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 journal on Physics Education Research), Reviews of Modern Physics, and its newest journals, Physical Review Applied, PRX, and Physical Review Fluids. 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 sponsors the national Conferences for Undergraduate Women in Physics (www.aps.org/cuwip) – a set of 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.