

**Physics and Astronomy New Faculty Workshop  
November 13-16, 2014**

**Thursday, November 13**

- 11:00 AM – 6:00 PM Workshop Registration  
Holiday Inn – College Park, MD  
Grand Ballroom Foyer
- Noon-1:30 PM Buffet Lunch  
Grand Ballroom Foyer
- 1:30-3:00 PM 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](mailto:rweiner@rescorp.org)
- 3:00-4:30 PM Workshop  
Grand Ballroom AB  
Grant Opportunities at the National Science Foundation  
Joyce Evans, Division of Undergraduate Education, [jevans@nsf.gov](mailto:jevans@nsf.gov)  
Kevin Lee, Division of Undergraduate Education, [klee@nsf.gov](mailto:klee@nsf.gov)  
Kathleen McCloud, Division of Physics, [kmcloud@nsf.gov](mailto:kmcloud@nsf.gov)  
James Neff, Division of Astronomical Sciences, [jneff@nsf.gov](mailto:jneff@nsf.gov)  
Guebre Tessema, Division of Materials Research, [gtessema@nsf.gov](mailto:gtessema@nsf.gov)
- 4:30-5:00 PM Break
- 5:00-5:15 PM Opening Remarks  
Grand Ballroom AB  
**Welcome and Introductions**  
Robert Hilborn, Associate Executive Officer, AAPT, Chair, Physics and  
Astronomy New Faculty Workshop  
Beth Cunningham, Executive Officer, AAPT  
Fred Dylla, Executive Director, AIP  
Kate Kirby, Executive Officer, APS  
Kevin Marvel, Executive Officer AAS
- 5:15-6:15 PM Large Group Session  
Grand Ballroom AB  
Learner-Centered Teaching in Physics and Astronomy  
Edward Prather, University of Arizona
- 6:15-7:30 PM Dinner  
Grand Ballroom ??
- 7:30-8:30 PM Large Group Session  
Think-Pair-Share Practical Details  
Edward Prather, University of Arizona

**Friday, November 14**

6:30-7:30 AM	Breakfast – Holiday Inn – College Park	Moose Creek Steak House
8:00 AM	Shuttle Bus Leaves (On Time) for the American Center for Physics	
8:30 – 9:30 AM	Large Group Session David Sokoloff, University of Oregon Ron Thornton, Tufts University	Conference Room A
9:30 – 10:15 AM	Small Group Sessions	
	Upper-Level Curriculum (I) Corinne Manogue, Oregon State University	Conference Room A
	Real-Time Physics/ILD (II) David Sokoloff, University of Oregon and Ron Thornton, Tufts	Conference Room B
	Lecture Tutorials (III) Edward Prather and Gina Brissenden, University of Arizona	Conference Room C
10:15-10:45 AM	Break	ACP Rotunda
10:45-11:30 AM	Small Group Sessions	
	Upper-Level Curriculum (II) Corinne Manogue, Oregon State University	Conference Room A
	Real-Time Physics/ILD (III) David Sokoloff, University of Oregon and Ron Thornton, Tufts	Conference Room B
	Lecture Tutorials (I) Edward Prather and Gina Brissenden, University of Arizona	Conference Room C
11:30-12:15 PM		
	Upper-Level Curriculum (III) Corinne Manogue, Oregon State University	Conference Room A
	Real-Time Physics/ILD (I) David Sokoloff, University of Oregon and Ron Thornton, Tufts	Conference Room B
	Lecture Tutorials (II) Edward Prather and Gina Brissenden, University of Arizona	Conference Room C
12:15-1:15 PM	Group Photo and Lunch	ACP Cafeteria
1:15-2:15 PM	Large Group Session Peer Instruction James Fraser, Queen’s University	Conference Room A
2:15-3:15 PM	Small Group Discussions Topics from Pre-Workshop Survey	Conference Rooms A, B, C
3:15-3:45 PM	Break	ACP Rotunda

3:45- 4:45 PM	Large Group Session Just-in-Time Teaching Andy Gavrin, IUPUI	Conference Room A
4:45-5:45 PM	Large Group Session Evaluation and Assessment Karen Cummings, Southern Connecticut State University	Conference Room A
5:45 PM	Shuttle Bus to the hotel	
6:30-7:30 PM	Dinner	Grand Ballroom ??
7:30-8:30 PM	Large Group Session The Physics IQ Test Richard Berg, University of Maryland-College Park	Grand Ballroom ??

**Saturday, November 15**

6:30-7:30 AM	Breakfast – Holiday Inn – College Park	Moose Creek Steak House
7:45 AM	Shuttle Bus Leaves (On Time) for the American Center for Physics	
8:30-10:00 AM	Large Group Session Research in Physics Education: A Resource for Improving Student Learning Lillian C. McDermott and Peter Shaffer, University of Washington	Conference Room A
10:00-10:30 AM	Break	ACP Rotunda
10:30-11:15	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, and Easy-Java Scripts (III) Mario Belloni, Davidson College	Conference Room A Conference Room B Conference Room C
11:15-Noon	Small Group Sessions Interactive Engagement in Upper-Level Courses (II) Corinne Manogue, Oregon State University PhET Simulations (III) Michael Dubson, University of Colorado-Boulder Physlets, Open Source Physics, and Easy-Java Scripts (I) Mario Belloni, Davidson College	Conference Room A Conference Room B Conference Room C
Noon-1:00 PM	Lunch	ACP Cafeteria

1:00-1:45 PM Small Group Sessions	
Interactive Engagement in Upper-Level Courses (III)	Conference Room A
Corinne Manogue, Oregon State University	
PhET Simulations (I)	Conference Room B
Michael Dubson, University of Colorado-Boulder	
Physlets, Open Source Physics, and Easy-Java Scripts (II)	Conference Room C
Mario Belloni, Davidson College	
1:45-2:30 PM Small Group Sessions	
Participants from Ph.D.-granting Institutions	Conference Room A
Participants from Primarily Undergraduate Institutions	Conference Room C
2:30-3:00 PM Break	ACP Rotunda
3:00-4:00 PM Large Group Session	Conference Room A
Problem Solving	
Ken Heller, University of Minnesota	
4:00-4:45 PM Small Group Sessions	
Digital Libraries (I)	Conference Room A
Eleanor Sayre, Kansas State University	
Tenure Matters (II)	Conference Room B
Robert Hilborn, AAPT and TBD	
Problem Solving (III)	Conference Room C
Ken Heller, University of Minnesota	
4:45-5:30 PM Small Group Sessions	
Digital Libraries (II)	Conference Room A
Eleanor Sayre, Kansas State University	
Tenure Matters (III)	Conference Room B
Robert Hilborn, AAPT and TBD	
Problem Solving (I)	Conference Room C
Ken Heller, University of Minnesota	
5:30-6:15 PM Small Group Sessions	
Digital Libraries (III)	Conference Room A
Eleanor Sayre, Kansas State University	
Tenure Matters (I)	Conference Room B
Robert Hilborn, AAPT and TBD	
Problem Solving (II)	Conference Room C
Ken Heller, University of Minnesota	
6:15 PM Bus to the hotel	
6:45-7:45 PM Dinner	Grand Ballroom ??

7:45-8:15 PM Large Group Session  
Physics Education in China (title and speaker TBD) Grand Ballroom ??

**Sunday, November 16**

6:30-7:45 AM Breakfast – Holiday Inn – College Park  
Hotel Checkout – before noon Moose Creek Steak House

8:15-9:00 AM Large Group Session  
Case Study Discussion of Student Behavior  
Tim Slater, University of Wyoming Grand Ballroom AB

9:00-10:15 AM Large Group Session  
Teaching for Retention and Diversity  
Arlene Modeste Knowles, American Physical Society Grand Ballroom AB

10:15-10:30 AM Break Grand Ballroom Foyer

10:30-11:15 AM Large Group Session  
Time Management  
Tim Slater, University of Wyoming Grand Ballroom AB

11:15-11:30 AM Large Group Session  
Evaluation Procedures, Final Words, Adjourn Grand Ballroom AB