The Physics and Astronomy New Faculty Workshop

July 25-28, 2022

Los Angeles, CA
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<thead>
<tr>
<th>Day</th>
<th>Times (Pacific)</th>
<th>Events</th>
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<tr>
<td>Monday</td>
<td>8:00 - 8:50 am</td>
<td>Breakfast</td>
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| July 25th | 9:00 - 9:45 am | Welcome - Pod Icebreaker #1, Community Agreements Activity & Intro to FOLC  
Bob Hilborn, Ed Prather, Rachel Scherr, and Andy Rundquist |
|           | 9:45 - 10:45 am| The Journey from Traditional Instruction to Active Learning         
Laurie McNeil                                           |
|           | 10:45 - 11:00 am| Break                                                                |
|           | 11:00 am - 12:00 pm| Frames of Belonging and Identity in Teaching and Learning       
Rachel Scherr and Tali Hairston |
|           | 12:00 - 1:00 pm| Lunch                                                                |
|           | 1:00 - 2:45 pm| Experiencing and Unpacking the Active Learning Classroom        
Ed Prather                                           |
|           | 2:45 - 3:00 pm| Break                                                                |
|           | 3:00 - 3:15 pm| Considering a Set of Principles for Teaching and Learning        
Ed Prather                                           |
|           | 3:20 - 4:05 pm| POD Session #2                                                         |
|           | 4:05 - 4:25 pm| Individual Reflections                                                |
|           | 4:30 - 5:15 pm| Panel session - Q&A with presenters                                   |
|           | 5:15 - 5:30 pm| Debrief and Day 2 Overview                                            |
|           | 6:00 pm       | Dinner                                                                |
|           |               | Evening Informal Gathering and Conversations with Peers             |

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<th>Day</th>
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<tr>
<td>Tuesday</td>
<td>8:00 - 8:50 am</td>
<td>Breakfast</td>
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<tr>
<td>July 26th</td>
<td>9:00 - 9:15 am</td>
<td>Welcome from AAPT, AAS, AIP, and APS Executive Officers, Orientation &amp; Overview, Sign-Up for Parallel Sessions</td>
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Choose One of the Following Sessions

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| 9:20 - 10:20 am | Optimizing Students’ Preparation for Class: Just-in-Time Teaching (JITT)                  
Andy Gavrin |
| 10:20 - 10:35 am | Free Time, Peer Discussion and Sign Up for Parallel Sessions                                |

Choose One of the Following Sessions

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| 10:35 - 11:35 am | Optimizing Students’ Preparation for Class: Just-in-Time Teaching (JITT)                  
Rachel Scherr and Ed Prather |

**Location: Sheraton Gateway Los Angeles**

**Dates: July 25 - 28**
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<thead>
<tr>
<th>Time</th>
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</table>
| 11:40 am - 12:40 pm | Going Deeper with Just-in-Time Teaching (JITT)  
|               | Going Deeper with Interactive Lecture Demonstrations (ILDs)  
|               | Going Deeper with Collaborative Group Activities                      |
| 12:40 - 1:40 pm | Lunch, Peer Discussions - Group Photo, Sign Up for Parallel Sessions    |
| 1:40 - 2:55 pm  | Goals and Strategies for Physics Lab Classes  
|               | Engaging Students and Supporting Learning with PhET Interactive Simulations  
|               | Developing High-Performance Questions and Orchestrating Engagement Using Think-Pair-Share (TPS)  
|               | Ben Zwickl  
|               | Rebecca Vieyra  
|               | Ed Prather          |
| 3:00 - 4:15 pm  | Goals and Strategies for Physics Lab Classes  
|               | Engaging Students and Supporting Learning with PhET Interactive Simulations  
|               | Developing High-Performance Questions and Orchestrating Engagement Using Think-Pair-Share (TPS)  
| 4:15 - 4:30 pm  | Free Time, Peer Discussion                                               |
| 4:30 - 5:15 pm  | POD Session #3                                                           |
| 5:15 - 6:00 pm  | Panel and Q & A with Presenters (with “Stop, Go, Change” )               |
| 6:00 - 7:00 pm  | Dinner                                                                  |
| 7:15 pm        | Evening Informal Gathering and Conversations with Peers                 |

**Day**

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<tr>
<td>Wednesday</td>
<td>8:00 - 8:50 am - Breakfast</td>
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| July 27th    | 9:00 - 9:50 am - Finding Helpful Information About Teaching: Online Resources at PhysPort and Compadre  
|             | Sam McKagan                                                                   |
|             | 9:55 - 11:10 am - Designing Activities for More Advanced Students: Lessons from the Paradigms Program  
|             | Liz Gire                                                                       |
|             | 11:10 - 11:25 am - Free Time, Peer Discussion and Sign Up for Parallel Sessions |
| Choose One of the Following Sessions | Promoting Sensemaking: Lessons from the Paradigms Program  
|              | Designing Intro Courses that Focus on Improving Students’ Problem Solving Abilities  
|              | Using Think-Pair-Share (TPS) to Promote Quantitative Problem Solving  
|              | Liz Gire  
|              | Andy Rundquist  
<p>|              | Ed Prather                                                                |</p>
<table>
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<tr>
<td>12:40 - 1:40 pm</td>
<td>Lunch and Peer Discussions</td>
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<tr>
<td>1:40 - 2:55 pm</td>
<td>Choose One of the Following Sessions:</td>
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<tr>
<td>3:00 - 4:00 pm</td>
<td>Assessing Students' Learning Rigorously and Fairly</td>
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<tr>
<td>4:00 - 4:15 pm</td>
<td>Break</td>
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<tr>
<td>4:15 - 5:15 pm</td>
<td>Getting your Career off to a Good Start</td>
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<tr>
<td>5:20 - 6:00 pm</td>
<td>POD Session #4</td>
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<tr>
<td>6:00 - 7:00 pm</td>
<td>Dinner</td>
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<tr>
<td>7:15 PM</td>
<td>Evening Informal Gathering and Conversations with Peers - Optional Tenure Discussion</td>
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### Day Times (Pacific)

#### July 28th
- **8:00 - 8:50 am**: Breakfast

#### Thursday
- **9:00 - 10:00 am**: Navigating Your Department Ecosystem to Solve Problems Beyond Your Classroom
  - Andy Rundquist
- **10:10 - 11:10 am**: POD Session #5
  - Break
- **11:10 - 11:25 am**: Break
- **11:25 am - 12:25 pm**: Research Funding Opportunities for Early-Career Physics & Astronomy Faculty
  - Richard Wiener
- **12:25 - 1:25 pm**: Lunch and Peer Discussions
- **1:25 - 2:25 pm**: Q&A with NSF Program Directors (online)
  - NSF Program Directors: Hans Krimm, Division of Astronomical Sciences; Guebre Tessema, Division of Materials Research; Kevin Jones and Kathleen McClyod, Division of Physics; Corby Hovis and Eleanor Seyer, Division of Undergraduate Education
- **2:30 - 3:00 pm**: Final Words, Evaluation and Adjourn