Workshop Description
This workshop will help new and experienced teachers to improve the planning and delivery of the AP Physics 1 course. We will:

• Discuss the exam format, the curriculum framework, the science practices and learning objectives and the importance of inquiry-based activities and labs.
• Work through the 2015 exam and sample student papers.
• Look at the course audit process and issues surrounding course planning and pacing.
• Discuss issues of equity and access.
• Practice modifying activities to be more inquiry-based.
• Practice modifying assessment items to better match the format and content of the new exam.
• Work through several labs and activities in an inquiry-based manner, to develop teacher familiarity and expertise.
• Work with questioning and scientific argumentation.
• Look at a variety of web-based resources available to teachers.
• Look in depth at several of the key content areas in the AP Physics 1 curriculum, discussing the requirements of the curriculum, common student difficulties, instructional best practices and effective lab activities.

Learning Outcomes
• Understanding or knowing how to find the content that is covered in the curriculum, the associated science practices, the format of the exam and the kinds of questions students will be expected to answer.
• Designing and delivering inquiry-based lessons and lab activities.
• Writing assessment items that align with the curriculum framework and prepare students for the exam.
• Expanding the reach of your AP Physics program through the use of inquiry, science practices and real-world problems.

What Participants Should Bring:
• A well-rested, enthusiastic mind that is ready to explore, learn and share.
• Paper, pencil and calculator.
• Optional, recommended supplies:
  • A laptop computer or handheld device with internet and file capability.
  • The textbook used in class (helpful for syllabus development)
  • Labs, demonstrations, or teaching tips to share with other teachers.

Instructor Bio
Nicholas Park teaches Physics, AP Physics and Physical Science at Greenhill School in Addison, TX. He has been teaching Physics at various levels since 1998, and has most recently transformed Greenhill’s Honors Physics course into an AP Physics 1 course. Please read more of Park’s bio on our website!