

Meeting Announcement and Call for Presentations

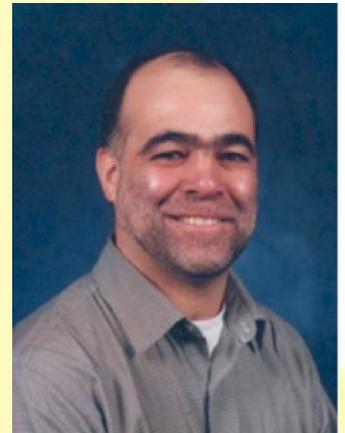
2013 Spring Meeting - April 20, 2013 Henry Ford Community College

Deadline for Presentation Proposals: Saturday, March 30, 2013

Are you interested in physics, physics education, or science literacy? If so, *you* are invited to the Spring 2013 meeting of the Michigan Section of the American Association of Physics Teachers! Join colleagues from across the state to exchange innovative ideas in the teaching and learning of physics.

Featured speaker: Dr Nilton O. Renno (AOSS, University of Michigan)

We are very pleased to welcome Dr. Nilton O. Renno as our featured speaker. Dr. Renno is a multidisciplinary scientist with interests in atmospheric thermodynamics, dust electrification, brine thermodynamics, and the implications of liquid brines to the habitability of Mars. Dr. Renno was the leader of the Phoenix Mars Mission Atmospheric Science Theme Group. He led the team that found the *first* direct evidence for liquid water on Mars. Dr. Renno is Co-Investigator of the Mars Science Laboratory and the ExoMars Missions. He has been developing instruments and missions for measurements on Earth, the Moon, Mars and beyond. Dr. Renno and his students made important contribution to the understanding of the interaction of rocket plumes with soils, dust electrification, and the motion of wind-blown sand or ‘saltation’. Saltation is an important physical process because it is the main natural source of dust aerosols and wind erosion, but it is still poorly understood. Indeed, climate forcing by dust aerosols is the most uncertain processes in our current understanding of global climate change.



Meeting location: Henry Ford Community College, Dearborn, Michigan

Maps and directions to Henry Ford can be found at: <http://www.hfcc.edu/contact/locations.asp>. Stay tuned for the full program announcement for details about hotels, parking and lunch on Saturday.

Special Note: We will be holding a high school physics photograph contest, based on the AAPT photo contest that is held at the Summer Meeting. Teachers can develop their own rules for the contest to fit their students and situation, but we would like to encourage the top examples to be submitted to the AAPT contest. A prize will be awarded.

Presentation Information

All who are planning to attend the meeting are also encouraged to contribute presentations on favorite physics demonstrations, classroom experiences, teaching experiments (*i.e.*, teaching a familiar topic with a “new twist”), and ongoing projects in teaching or scholarship. Presentations at the meeting may take on a variety of forms, including the following:

- **Oral Presentations** may be formal (*i.e.*, PowerPoint) or informal. Engaging presentations, including those that are interactive with the audience, are always highly encouraged. Oral presentations are limited to **15 minutes** each, including follow-up questions and discussion.
- **Workshops** for high school teachers college faculty form an integral part of every meeting. Workshops, usually 2 or 3 hours long, will be scheduled for Friday evening (April 19) and Saturday afternoon (April 20). Unless announced ahead of time by the presenter(s), workshop registration takes place on a “walk-in” basis.
- **Poster Presentations** are welcome especially if you wish to share teaching ideas or apparatus for which the time constraints might not work for an oral presentation.
- **My Favorite Demonstrations and “Physics Puzzlers”** are quick but unique physics demonstrations with which to share favorite challenge questions or to share unexpected or unusual outcomes from an experiment. These are limited to **5 minutes** each.

If I want to contribute a presentation, how do I submit information about it?

You may fill out the attached “[Presentation Proposal Form](#)” on page 4 (you can complete it electronically in Microsoft Word) or compile the following information about your presentation:

1. **Type of presentation** (oral, workshop, poster, or My Favorite Demo/Physics Puzzler)
NOTE: If a **workshop**, please indicate which times you could
2. **Title** (10 words maximum...longer titles will be edited to 10 words or fewer)
3. **Name and contact information of (primary) presenter** (school, institution, or other affiliation; address; phone number; and e-mail address)
4. **Brief description** (100 words maximum) of your presentation
5. **Description of any A/V equipment needed.** (Rooms for oral presentations and workshops will be equipped with computer projector and overhead projector.) It is the **presenter’s** responsibility, though, to bring a laptop and any special equipment.

Please submit your completed “Presentation Proposal Form” so that it arrives **by Saturday, March 30**. Please send it by e-mail (*highly preferred*) or “snail mail” to:

Scott E. Cochran
Kirtland Community College
10775 N. St. Helen Rd
Roscommon, MI 48653

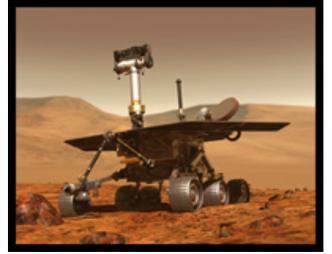
E-mail: scott.cochran@kirtland.edu
Phone: 989 275-5000x320
FAX: 989 275-8745

For updates on the Fall 2013 meeting: Check out the MIAAPT website: www.miaapt.org.

Spring 2013 MIAAPT Meeting:

Keynote address: Saturday, April 20, morning (exact time TBA)

Dr. Nilton O. Renno (AOSS, University of Michigan)



The Mars Opportunity Mission

Opportunity is one of two twin robotic rovers (*Spirit* being the other) that make up the Mars Exploration Program. *Opportunity* landed within the Eagle Crater in Meridiani Planum on January 25, 2004 with a 90 Sol mission to sample and analyze the Martian environment for past and present indications of water activity. Some of the tools to be used in this search are a panoramic camera (the Pancam), a navigational camera (Navcam), a microscopic imager, a miniature thermal emission spectrometer (Mini-TES), a Mossbauer spectrometer (MIMOS II), an alpha particle x-ray spectrometer (APXS), and a “rock abrasion tool” (the RAT). During *Opportunity*’s ongoing, 8+ year extended mission it has investigated Endurance Crater, Erebus Crater, and eventually Victoria Crater. In doing so, it traveled over 7 km from its original landing site.

MIAAPT Mission Statement: The Michigan Section of the American Association of Physics Teachers is dedicated to promoting excellence in physics education in the state of Michigan and to supporting physics educators statewide. This organization shall endeavor to advance the knowledge of physics, to improve the teaching of physics, and to interest an increasing number of young people in making a career of physics.

MIAAPT Presentation Proposal Form: Spring 2013 Meeting

1. Type of Presentation (*select one*): Oral Workshop Poster Favorite Demo/Puzzler

If a **workshop**, please indicate: - preferred day: Friday Evening (4/19) Saturday Afternoon (4/20)
- approximate length:
- time constraints:

Title of presentation, maximum **10 words**:

2. Name of (Primary) Presenter:

School/Institution/Affiliation:

Address:

E-mail address:

Phone number:

3. Brief description/summary of presentation (max. 100 words). In addition, you may include names of co-presenters with their affiliations; references/citations; etc.

4. Equipment needs:

**** IMPORTANT:** Presentation rooms will have computer projector systems and overhead projectors, but presenters should bring their own laptops.