

Meeting Announcement and Call for Presentations

**2012 Fall Meeting - October 6, 2012
Hope College**

Deadline for Presentation Proposals: Saturday, September 20, 2012

Are you interested in physics, physics education, or science literacy? If so, *you* are invited to the Fall 2012 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.

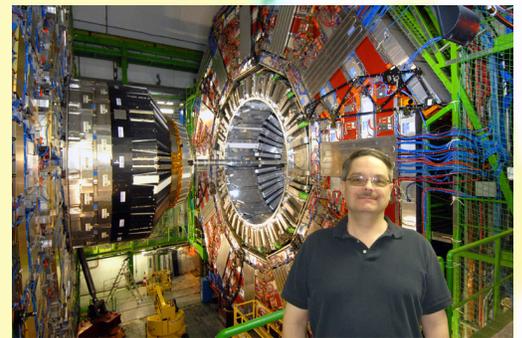
Featured speaker: Dr Don Lincoln (Fermilab)

We are pleased to welcome Dr Don Lincoln as our featured speaker. Don is a senior scientist at Fermilab National Laboratory and adjunct at the University of Notre Dame.

Don Lincoln received his Ph.D. in experimental particle physics from Rice University and he is a senior physicist at Fermi National Accelerator Laboratory. He splits his research time studying data from the Fermilab Tevatron and from the CERN Large Hadron Collider, located outside Geneva Switzerland. He is co-author of over 500 scientific publications that range over subjects from microscopic black holes and extra dimensions to the elusive Higgs boson. His two most noteworthy scientific accomplishments include being part of the teams that discovered the top quark and what is likely to be the Higgs boson.

When Dr. Lincoln isn't exploring the energy frontier, he enjoys communicating the excitement of his and his colleagues' cutting edge research with the public. He has authored two books for the public about particle physics, which have been translated into Polish, Russian, German and Chinese and he has a third book in press. He has published many magazine articles in periodicals that include *Analog: Science Fiction and Fact*, *The Physics Teacher* and *Scientific American*. If you count all the magazines that have been printed, his writing has appeared well over a million times.

He has given hundreds of lectures on four continents and to a broad range of audiences, but his favorite kind of audience are non-scientists who are interested in understanding how the world works. He has a series of YouTube videos that explain frontier physics to a lay audience and he is a blogger for the television show *NOVA*'s web site. He also writes a weekly column for the online periodical *Fermilab Today*, which popularizes research papers as they are released.



Meeting location: Hope College, Holland, Michigan

Maps and directions to Hope College can be found at: <http://hope.edu/pr/map.html>. Stay tuned for the full program announcement for details about hotels, parking and lunch on Saturday.

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 (October 5) and Saturday afternoon (October 6). 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 you propose a **workshop**, please indicate the times at which you could present.
2. **Title** (10 words maximum...longer titles will be edited to 10 words or fewer)
3. **Name and contact information of (primary) presenter** (school or 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 Thursday, September 20.** 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
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For updates on the Fall 2012 meeting: Check out the MIAAPT website: www.miaapt.org.

Fall 2012 MIAAPT Meeting:
Keynote address: Saturday, October, morning (exact time TBA)

Dr. Don Lincoln (Fermilab)

Fermi National Accelerator Laboratory (Fermilab)

Fermi National Accelerator Laboratory advances the understanding of the fundamental nature of matter and energy by providing leadership and resources for qualified researchers to conduct basic research at the frontiers of high-energy physics and related disciplines. In the last fifty years, scientists have made great advances in our understanding of energy, matter, space and time. Researchers at Fermilab and other DOE-funded institutions have played a significant role in developing a comprehensive framework that explains nature's particle zoo. Fermilab builds and operates the accelerators, detectors and other facilities that physicists need to carry out forefront research in high-energy physics. Fermilab is the largest high-energy physics laboratory in the United States, and is second in the world only to [CERN](#), the European Laboratory for Particle Physics. Fermilab's Tevatron was the world's second-highest-energy particle accelerator and collider. In the Tevatron, counter-rotating beams of protons and antiprotons produced collisions allowing scientists to examine the most basic building blocks of matter, and the forces acting on them.

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: Fall 2012 Meeting

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

If a **workshop**, please indicate: - preferred day: Friday Evening (10/5) Saturday Afternoon (10/6)
- 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.