



Program

for the **2006 Spring Meeting** of the
Michigan Section of the American Association of Physics Teachers
Friday-Saturday, March 31 & April 1, 2006
Wayne State University, Detroit, Michigan
Mc Gregor Center on the WSU campus.

Please Note:

This MIAAPT meeting will be held jointly with the Ohio Section of the American Physical Society

Meeting Theme: Physics of the Early Universe

OSAPS Events: Friday, March 31

- 10:00 Executive meeting of OSAPS and Breakfast
- 12:00 **REGISTRATION** in the Mc Gregor Center.
- 2:00 **Welcome**
- 2:15 Dr. Paul Stankus, Oak Ridge National
QGP: The Perfect Liquid and the Early Universe
- 3:00 Coffee Break
- 3:15 **2006 Vaden Miles Lecture**
Dr. Peter E. Nugent, Lawrence Berkeley Laboratory
Supernovae and Dark Energy
- 4:00 Poster Session
- 5:30 Banquet

MIAAPT Workshops: Friday, March 31 Mc Gregor Center, Room to be announced.

- 9:00-12:00 **Hands on Experience with the PASCO CASTLE Kit**
Alan Gibson, C3P mentor and PTRA, Rochester Adams HS, Retired Teacher.
Keith Forton, PTRA, Traverse City Central HS Teacher
- 1:00 - 3:00 **Hands on Experience with the PASCO CASTLE Kit**
Alan Gibson, C3P mentor and PTRA, Rochester Adams HS, Retired Teacher.
Keith Forton, PTRA, Traverse City Central HS Teacher

Saturday, April 1, 2006 Mc Gregor Center

- 7:00-8:00 **Registration & Continental Breakfast** (room to be announced)
- 8:00-10:00 **OSAPS Parallel Sessions**
MIAAPT Workshop: "Active and Collaborative Learning in Astronomy"
Michael LoPresto, Henry Ford Community College
A workshop providing advice on incorporating active and collaborative learning into an introductory astronomy course including:
 - How to replace lectures with activities designed to teach the same material-this will include an introduction to existing resources to use in class.
 - What topics to leave out-doing activities takes time, so what topics can be covered less extensively or left out all together without compromising the course or losing continuity?
 - Assessment-How to evaluate students in a way similar to how the material was covered and the Astronomy Diagnostic Test-an assessment instrument used nationally, advice on administering it and comparing your students to national averages.
- 10:00 **Coffee Break**

- 10:30-11:15 **MIAAPT Lecture**
 Michael LoPresto, Henry Ford Community College
"How Tim Slater & Ed Prather Ruined My Life"
 --An overview of a transition from an instructor-centered astronomy lecture course, to a student-centered course featuring active and collaborative learning. Discussions will include resources, assessment techniques and data & observations.
- 11:15-12:00 Prof. Fred Adams, University of Michigan
How the Early Universe Informs the Formation and Long Term Evolution of Galaxies, Stars, and Planets
- 12:00 Lunch—box lunches available for purchase for approximately \$7.00
- 1:00-1:30 **MIAAPT Business Meeting**
- 1:30-1:40 **MIAAPT Award**
- 1:40-2:00 **Quickies & Stump The Professor**
- 2:00-2:15 **How Do We Know When Various Particles First Appeared In The Universe And When The Universe Became Opaque?**
 Walt Scheider, Ann Arbor Public Schools (ret)
- 2:15-2:30 **An Electronic Instrumentation Course for Physics Majors with a Focus on Sensors**
 Paul Zitzewitz, University of Michigan-Dearborn
- 2:30-2:45 **PER Curriculum a la TNT!**
 Taoufik Nadji, Interlochen Arts Academy
- 2:45-3:00 **Writing for Understanding in Upper Division Physics**
 Carrie Swift, University of Michigan-Dearborn
- 3:00-3:15 **Astronomy Learning Community**
 Frank Dudish, Delta College
- 3:15-3:30 **NSF-Funded Professional Development Workshop for K-12 Teachers Using Problem-Based Learning**
 Alex Azima, Lansing Community College
- 3:30-3:45 **The Legacy of Dr. Emmett N. Leith—Celebrate the Lifetime Achievement of the Father of Modern Holography**
 Hsuan S. Chen & Marian P. Shih, Saginaw Valley State University
- 3:45-4:00 Continuation of 3:30 talk: Participants view historically significant and visually appealing holograms
 Hsuan S. Chen & Marian P. Shih, Saginaw Valley State University
- 4:00 Adjourn

Meeting website, and Wayne State University Campus Map with Directions:

Please see <http://rhic23.physics.wayne.edu/OSAPS-MAAPT/index.htm>
 and <http://www.campusmap.wayne.edu/>

Parking:

Please see <http://parking.wayne.edu/visitorquest.php>

Registration:

Students with a valid student I.D. may register on-site for free. Others may register on-site for \$5.00. Checks may be made payable to MIAAPT.

Questions?

Contact Program Chair Kathy Mirakovits (kmirakovits@portageps.org 269-323-5403) or Wayne State University Meeting website: <http://rhic23.physics.wayne.edu/OSAPS-MAAPT/index.htm>
 Also check www.miaapt.org for more Michigan Physics Teachers information.

Next Meeting: October 14, 2006 @ University of Michigan-Dearborn