

**Arkansas-Oklahoma-Kansas Section
American Association of Physics Teachers**

**AOK AAPT
2008 Section Meeting
October 31-November 1, 2008
Rose State College Midwest City, OK**

The annual meeting of the AOK Physics Teachers was held in Midwest City, Oklahoma, on “Halloween weekend.” Approximately 35 instructors were in attendance throughout the two day event. The meeting was held in Oklahoma which is part of the three year cycle of host sites. Next years meeting will be held in Manhattan, Kansas at Kansas State University.

An outlined schedule is listed below.

- Registration on Midwest City Campus/ Check-in 2:00- 7:00 pm
Campus Tours - Sponsored by RSC Students and Faculty
Portable Planetarium and Hovercraft demos
Afternoon Workshops
- Dr. Karen Williams – *Telephone Dialer* – 3:30-4:30
- Dr. Carl Rutledge – *Low Cost Experiments and Demonstrations* 4:45-5:45

Meet and greet/Social Hour & Banquet 6:00-9:00 pm

Keynote Speaker- Dr. William S. Sibley - Meeting Challenges and Opportunities For Science and Engineering on Planet Earth

November 1st, 2008 Saturday mornings activities began with refreshments catered by Panera Bread – Bagels w/ Cream cheese and coffeecakes. This was followed by the initial morning session which featured speakers from the University of Central Oklahoma. With the meeting regionally located the host asked these individuals to highlight the program. Additionally the annual teachers of the year awards were presented. Local Midwest City area physics instructors, John Keilty, Sue Ellen Frerichs, and Tim Claxton were winners of these awards.

The list of University of Central Oklahoma presenters and their papers is shown below.

- Dr. Weldon Wilson - *Extraterrestrial Life, the Population Explosion, and Other Surprises From the Physics of Complex Systems* University of Central Oklahoma
- Dr. Baha Jassemnejad - *Generation and measurement of Photons possessing Orbital Angular Momentum (OAM)* University of Central Oklahoma
- Dr. Wei R. Chen - *Biomedical engineering approach for cancer treatment* University of Central Oklahoma
- Dr. Evan Lemley – *ABET Basics for Physics Programs* Univ. of Central Oklahoma

After the invited speakers made their presentations a formal submitted Paper session ran from 11:00-12:00 am. The two presenters for this session are from East Central Oklahoma University and are listed with their paper titles.

- Dr. Karen Williams – *Science Ethics Education*
- Dr. Carl Rutledge - *Student Proof, Accurate Experiments with Lamps in Series and Parallel for General Physical Science*

Following lunch the annual AOK-AAPT Officers Meeting took place. During this meeting officers were elected and proclamations were made.

The early afternoon speaker sessions were filled with talks from Kansas State University, and their physics education research students. The list of people and the titles of their papers are shown below. Kansas State University will host the 2009 AOK section meeting in October.

- Dr. N. Sanjay Rebello - *Facilitating Case-Reuse Strategies in Problem Solving using Group Learning Interviews.*
- School: Kansas State University
- Telephone: work: (785) 532-1539
- srebello@phys.ksu.edu

- Ms. Fran Mateycik - *Non-Traditional Physics Problems: A practical assessment of Case Reuse Strategies?*
- Ms. Fran Mateycik - *Analysis of algebra-based students' problem similarity and difference ratings*
- Dr. Sytil Murphy - *Exploring Students' Patterns of Reasoning*
- Ms. C. Dianne Phillips - *Using the EMPACTS model to enhance learning of course content in the Physical Sciences*
- Ms. Jacquelyn J. Chini - *Integrating Digital Hypertext with Hands-On Activities to promote Design-Based Learning in a Conceptual Physics Class*
- Dr. Sytil Murphy - *ALT-Pathway: A Web-based Synthesis of the Student-Tutor Interaction*
- Ms. Dyan L. McBride - *Categorizing Concepts and Concept-Links to Examine Student Understanding*

The final session of the day included the newly elected Arkansas host Dianne Phillips of Northwest Arkansas Community College who spoke on the topic of: Using the EMPACTS model to enhance learning of course content in the Physical Sciences. Ms. Phillips will be Hosting the 2010 AOK meeting on her campus in Northwest, Arkansas. Contact information for Dianne is also given for future reference.

Dianne Phillips of Northwest Arkansas Community College
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Following this session and the awarding of door prizes the 2008 AOK section meeting came to an end.