The Illinois
Physics Teacher

Spring 2013 Meeting
Illinois Section of the AAPT
March 1-2, 2013
Western Illinois University
Macomb, IL

The spring meeting chair, Brian Davies, has organized the meeting around the theme “Setting New Standards in Physics Teaching.” We are assembling a panel of speakers who have been involved with the Next Generation Science Standards (NGSS) which will have an impact on the content and methods of teaching secondary science. This panel discussion will be held jointly with a secondary science conference, held in our Biology Dept. each spring on a Friday morning. This year that conference will be held on the same day as our meeting, affording us the opportunity to interact with secondary teachers of the other sciences.

For the evening after-dinner speaker we have:

"Radio Astronomy: Observing the Invisible Universe" – Esteban Araya, Western Illinois University - Friday banquet speaker

The recipient of the 2012-2013 Outstanding High School Physics Teacher Award will be presented with the award during the Friday evening banquet.

Meeting attendees are invited to present 15 minute Contributed Presentations, which will be scheduled on Friday afternoon and Saturday morning. There are six categories of presentations: (a) Active Learning, (b) Teaching Methods, (c) Demonstrations, (d) Research, (e) Student Research Symposium and (f) Other. Please check the appropriate box on the submission form. The title should be submitted by Friday, Feb. 15, and the deadline for all of the information, including a one paragraph description, is Friday, Feb. 22. Use the online form on two occasions, if necessary, to first submit the title, then later to submit the description (or abstract).

Students are invited to present a talk at the Student Research Symposium, and there will be awards for best student papers. See the ISAAPT web site for details and rules.

Call for judges: We need physics instructors to serve as judges for the Student Research Symposium. Please indicate on your registration form if you are willing to assist.

Take Fives: Anyone who registers for the meeting may take 5 minutes or less to share a favorite item related to teaching physics - a demonstration, a new Web site, announcement of an upcoming event, etc. Please use the Registration form to tell us the title of your Take Five. There may be time for a few unannounced Take Fives at the end of the last session of the day.

ISAAPT has been recognized by the Illinois State Board of Education (ISBE) as an official provider of Continuing Professional Development Units (CPDU's). The Coordinator for this program, Morten Lundsgaard, will be available to provide this service to teachers.
Please join us, to learn more about physics, discover new tools and techniques for teaching, and share your experiences via your contributed presentations and Take Fives. You are welcome to come at the last minute, because on-site registration will be available, but for banquet and lunch reservations, you must register online by February 22.

For more information, maps and directions, registration forms, hotel information, and the program, see our website: www.isaapt.org

**Future ISAAPT Meetings**

- Fall 2013 – Oct. 4-5, at Heartland Community College, Normal (hosted by Illinois State Univ.)
- Spring 2014 – open
- Fall 2014 – open

**Future Chicago section meetings**

- Spring 2013 – March 16, Glenbard South High School
- Fall 2013 – open
- See: http://www.neiu.edu/~csaapt/

**Future national AAPT meetings**

- Summer 2013 – July 13-17 – Portland, OR
- Winter 2014 – Jan. 4-7 – Orlando, FL
- Summer 2014 – July 26-30 – Minneapolis, MN
- http://www.aapt.org/Conferences/meetings.cfm

**APS Prairie section meeting**

- Fall 2013 – early Nov. – place tbd
- See: http://www.aps.org/units/psaps/index.cfm

**AAPT NEWS eNNOUNCER**

http://www.aapt.org/aboutaapt/ennouncer/index.cfm

**ISAAPT membership listserv**

To subscribe, see the instructions on this webpage: http://helios.augustana.edu/isaapt/listserv-isaapt.html

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The Physics Teacher,
Newsletter of the ISAAPT
Illinois Section of the
American Association of Physics Teachers

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Normal, IL 61790
kwester@ilstu.edu

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**Connect with ISAAPT**

Rebecca Vieyra has brought ISAAPT up to date in the social media sphere!

ISAAPT now has a number of social media accounts to help its members stay in contact and get up-to-date announcements about current events in physics education. Please consider joining and/or following us on:

Facebook group: search “Illinois Section of the American Association of Physics Teachers”

Google+ page: search “ISAAPT”

Twitter feed: search “ISAAPT@IllinoisSecAAPT”

Please contact Rebecca Vieyra at rvieyra@d155.org with any questions and/or comments.
Upcoming AAPT/PTRA workshops!
(Sponsored by the Physics Teaching Resource Agent (PTRA) program and Physics Northwest)

Acoustics: Sound and Waves
February 23, 2013  9:00 a.m. – 4:00 p.m.
Cary-Grove High School, Cary, IL
This workshop will explore the properties of waves and sound in relation to acoustics and hearing. Participants will each receive a set of educational anatomical posters of the human ear, and a materials kit from the Acoustical Society of America. Participants will build and investigate the science of cuicas, a South American musical instrument, construct mechanical mosquitoes inspired by an African folk tale, and learn about the physics behind Western and non-Western musical scale systems. Expect to take home a number of “make-and-takes” and plenty of new resources to enhance your classroom.
Workshop Fee: $30 (for materials and to support the PTRA program)
To register for this workshop, please e-mail rvieyra@d155.org and send a check (written to the Physics Teaching Resource Agent program) to c/o Rebecca Vieyra, Cary-Grove High School, 2208 Three Oaks Rd., Cary, IL, 60013 by February 16, 2013.

Teaching Physics with Technology: Video Analysis and Web Apps
April 20, 2013  9:00 a.m. – 4:00 p.m.
Cary-Grove High School, Cary, IL
This workshop will explore the effective use of technology in the physics classroom, from video analysis to smart phone apps, simulations, and free web tools. Participants will each receive a copy of Physics with Video Analysis and a CD from Vernier. The first half of the workshop will entail using LoggerPro and Tracker video analysis, with time allowed for participants to perform their own experiments using cameras or their own smart phones for video capture. The second half of the workshop will introduce participants to a wide variety of technology teaching ideas for physics, including using Blogger, Wikispaces, Posterous, ChoreWars, and Google Apps, among others.
Workshop Fee: $30 (for materials and to support the PTRA program)

To register for this workshop, please e-mail rvieyra@d155.org and send a check (written to the Physics Teaching Resource Agent program) to c/o Rebecca Vieyra, Cary-Grove High School, 2208 Three Oaks Rd., Cary, IL, 60013 by April 6, 2013.

Call for Nominations for the Distinguished Service Citation

Each year, the ISAAPT Executive Council solicits nominations for the Distinguished Service Citation. This award is conferred by the ISAAPT during the fall meeting if a suitable candidate is identified. Through the award special recognition is given in the areas of leadership of colleagues and students through physics teaching, professional contributions to section activities through contributed papers, workshop presentation, committee service, or elective office and distinguished service at the home institution.

We invite and encourage you to nominate a fellow colleague for the 2013 Distinguished Service Citation to be presented at the fall 2013 ISAAPT meeting. Please send your nomination by July 1, 2013, so that the Council might consider the candidates during the summer. For guidelines, see the “Distinguished Service Citation” link on the ISAAPT website: www.isaapt.org

Call for Nominations for Outstanding High School Physics Teacher Award

Each school year the Illinois Section of AAPT is pleased to receive nominations for outstanding high school physics teachers in the state. Fellow teachers and school administrators who are aware of exceptional performance and enthusiastic student response are encouraged to fill out the online nomination form found on the ISAAPT website. The person who is nominated will be notified and asked to fill out the online candidate information form. Please note that the deadline for receiving nominations is December 1, 2013. The teacher who is selected will be notified and presented with the award at the spring 2014 meeting of the Section.
The ISAAPT Guidebook Program

This program provides resource guides to qualifying teacher candidates at the request of an Illinois PTE program administrator. For details see: http://helios.augustana.edu/isaapt/guidebook.html

The Physics Front!

The Physics Front provides high quality resources for the teaching of physics and physical sciences courses, and is a free service provided by the AAPT in partnership with the NSF/NSDL. Find it at http://www.thephysicsfront.org/

Minutes of the Fall 2012 ISAAPT Executive Council Meeting
Saturday, October 27, 2012
Joliet Junior College

Call to Order: President Brian Davies called the meeting to order at 7:05 a.m. Council members present: Past-President Doug Brandt, President-Elect Andrew Morrison, Secretary/Treasurer Dave Sykes, Webmaster and Publicity Chair Dave Renneke, Tom Carter, Deb Lojkutz, Noella D’Cruz, Bill Hogan, Richard Ross, Charles Schultz, Morten Lundsgaard, Tom Foster, Max Lee, and Rebecca Vieyra.

A motion to approve the minutes of the March 31, 2012 Executive Council Meeting held at the University of Illinois, Champaign/Urbana was made by Doug Brandt and seconded by Bill Hogan. The motion passed without further discussion.

Reports:

Secretary-Treasurer: Dave reported on the financial status of the ISAAPT. Currently the treasury has $6891 and there is approximately $37,300 in the Rossing Fund. Dave added that to get money from the Rossing Fund, a W-9 form must be filled out by the recipient of the money and submitted to the AAPT.

Section Representative: Zak Knott was not present but submitted his report via email.
1. Ann Brandon attended the summer national meeting on my behalf. (Hopefully she will be in attendance to report on that meeting)
2. The Winter 2014 meeting was approved and will take place January 4-7 at the Rosen Plaza Hotel in Orlando, FL. There was a lot of discussion about the early dates of the meeting being inconvenient to the start of the semester, especially two years in a row. However, it passed overwhelmingly.
3. I will be attending the National meeting in New Orleans in January. If there are any issues you would like me to bring to national please contact me.

High School Representative: Ann Brandon was not present. Deb Lojkutz reported that the high school representatives to the AAPT National Meeting worked mainly on preparing for future meetings.

Publicity Chair/Webmaster: Dave Renneke reported that the online voting for the ISAAPT logo went well (see elected logo below).

He added that the website had 252 hits the week preceding the current meeting and 556 hits during the month of October.
Newsletter Editor: Brian reported that 125 newsletters were mailed, four (4) were delivered locally, and eight (8) newsletters were emailed.

Outstanding High School Teacher Award: Cliff Parker was not present. Dave Renneke reported that nomination forms are online.

Committee for the Distinguished Service Citation: Deb Lojkutz reported that Doug Brandt was this year’s recipient and the committee is now comprised of the Secretary/Treasurer and the most recent recipients Tom Snyder and Doug Brandt.

Current Meeting Update: Bill Hogan reported that all has gone well with the meeting. He added that JJC has made a significant donation to defray invited speaker expenses.

Old Business:

Liability Insurance: Dave Sykes reported that he had paid the annual premium ($292.00) for the liability insurance that covers the ISAAPT on October 21, 2012.

Spring 2013 Meeting Update: Brian reported that the best time for the Spring Meeting at Western Illinois University is March 1-2. He added that there is a high school biology teachers meeting at Western on March 1 (Friday) until 1:00. He suggested that cross-over teachers from the biology teachers meeting be allowed to attend ISAAPT presentations. To that end: A motion was made by Andrew to empower Brian and WIU to allow cross-over teachers to be guests at the ISAAPT meeting. Tom Foster seconded and the motion passed without further discussion.

Fall 2013 Meeting Update: Ken Wester reported that the Fall 2013 meeting will be held on October 4-5. While it will be hosted by ISU, it will be held at Heartland Community College. The theme will be Physics & Astronomy Education.

Upcoming Meetings: Brian reported that no meetings after 2013 have been scheduled. A joint meeting with Iowa was suggested and Tom Carter volunteered to investigate a meeting at Yerkes Observatory or at the University of Wisconsin, Whitewater.

Local Physical Science Alliances: Carl Wenning was not present but submitted a report via email. A summary of his report is as follows:

Zone VI (Bloomington/Normal – leaders Tom Holbrook, Ken Wester, and Carl Wenning) continues to be very active with two 3-day workshops conducted where 36 teachers received training. Also, several workshops are in the plans for 2013 that will deal with Introduction to the Modeling Method of Instruction as well as “advanced topics” in Modeling Instruction.

Zone VII (Champaign/Urbana – leader Morten Lundsgaard) is planning a November meeting focusing on teachers’ spring curriculum.

Carl added that there is a possibility of two new zones, one surrounding the Decatur/Mount Zion area led by Barbara Gottemoller and the other surrounding the Morris/Lasalle area led by Zak and Zoe Evans.

ISAAPT Logo: Tom Foster reported that the new ISAAPT logo can be seen on the website.

ISAAPT Mirror Website: Andrew Morrison and Dave Renneke continue to work on a mirror website for the ISAAPT.

ISAAPT Incorporation: Doug reported that the ISAAPT is now officially incorporated. He added that incorporation entails the following:

1. An annual report has to be filed by the ISAAPT agent along with a $10.00 fee.
2. The ISAAPT constitution is the Articles of Incorporation.
3. Assets go to the AAPT if the ISAAPT is dissolved.
4. Tax returns don’t have to be filed if the ISAAPT has less than $5000 of revenue and operations of the ISAAPT yield no personal gain.

New Business:

Carl Wenning resignation/transfer of duties: Carl Wenning asked the ISAAPT to solicit volunteers to cover his commitments upon his resignation from these duties (but not necessarily from the ISAAPT).

1. Morten volunteered to handle CPDU’s.
2. Doug volunteered to host the listserv.
3. Tom Foster volunteered to chair the committee on High School Teacher Recruitment, Preparation, and Retention.
Nomination Slate: Doug Brandt presented the slate of candidates for council that will be voted on at the Business Meeting.

President-elect: Don Reid
Secretary/Treasurer: Ken Wester
High School Representative: Rodger Baldwin
Two-Year Representative: Dave Sykes
Four-Year Representative: James Rabchuk

Technology Update:
1. Andrew reported that he would investigate the process to use credit cards to pay for meeting expenses. Dave Renneke said that Pay-Pal was an option.
2. Andrew stated that twitter was a useful method to reach out to new teachers. Rebecca Vieyra volunteered to develop a facebook page. To that end: a motion was made by Doug Brandt to authorize Rebecca Vieyra to create a Facebook page, Google plus, and/or a Twitter account for the ISAAPT. Bill Hogan seconded and the motion passed without further discussion.

Adjournment: The meeting was adjourned at 8:12 a.m.

Faithfully submitted,
Dave Sykes, Secretary/Treasurer, ISAAPT

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