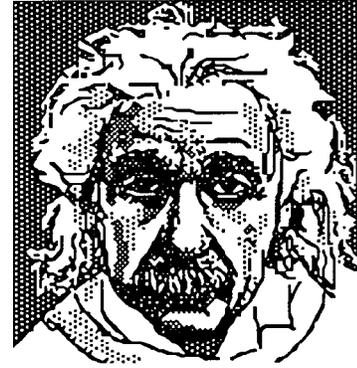


The Illinois Physics Teacher



Spring 2019 Meeting
Illinois Section of the AAPT
April 5-6, 2019
College of DuPage, Glen Ellyn, IL

The Spring meeting of ISAAPT will be held at the College of DuPage, Glen Ellyn, IL. This meeting includes the annual Student Research Symposium.

Invited presentations are –

1. **“Songs from the Stellar Graveyard: Probing the Cosmos in Gravitational Waves”** by [Dr. Shane Larson](#), Associate Director of the Center for Interdisciplinary Exploration and Research in Astrophysics (CIERA) at Northwestern University.
2. **“What Cognitive Science can tell us about Science Education”** by [Dr. Maureen Dunne](#), Education Technology Executive and autism advocate at the University of Illinois – Chicago.

There will be two workshops –

W1. “Cosmic Ray Detectors in the Classroom” will be given by Dr. Mark Adams of Fermi National Accelerator Laboratory on Saturday between 1:00 pm – 5:00 pm.

Funded by the National Science Foundation, the QuarkNet national organization has created a low cost easy to use cosmic-ray detector

system. In this workshop, instructors will have a hands on-experience, performing several experiments with cosmic-ray muons, using both the hardware involved along with the cloud based analysis software. There will also be some time allotted for discussion about next possible steps instructors can take. The cost of this workshop is \$5.

W2. “IOLab – a multi-sensor device for K1-College” will be given by Dr. Morten Lundsgaard of University of Illinois, Urbana-Champaign on Saturday between 1:00 pm – 5:00 pm.

The IOLab is a wireless data acquisition system of similar size and weight as a graphing calculator, and thus highly portable. It contains more than twenty sensors or inputs, including a 3D accelerometer, a 3D magnetometer, a 3D gyroscope, wheels which record position, velocity, and acceleration, a force probe, and both analog and digital inputs. Data can be analyzed in the IOLab software itself, or can be exported to a comma separated value file for later analysis.

In the workshop, the participants will first complete some the open-ended labs that we are currently introducing in the introductory physics courses at the University of Illinois at Urbana-Champaign. Next, participants can explore the many features of the IOLab at various stations including a two-wire ECG-measurement! Participants will get access to an online course that contains prelab and lab ideas for both high school and college and be introduced to how students can share their

measurements with each other and with their teacher.

To make the IOlab experience more authentic, participants should bring their own computer, pc or mac, to the workshop. The cost of this workshop is \$5.

For more information on the IOlab, see <http://www.iolab.science>.

Please consider attending this meeting to learn more about physics and discover new tools and techniques for teaching physics. Share your experiences – [contribute presentations](#) and Take Fives; and meet old and new friends.

Registration information and deadlines –

- [Registration is open](#). The registration fee for faculty is \$30 for the whole meeting and \$10 for Saturday only. After March 29, the registration fee for faculty will be increased by \$5.
- Registration is free for students, guests, and invited guests.
- The deadline for banquet reservations is April 2. Banquet dinner cost is \$20.
- Box lunch is available for Saturday for \$5.

For more up-to-date information please visit the [meeting website](#).

Message from the President

Dear ISAAPT friends,

It has been an unusual winter and the spring meeting looks like a perfect way to celebrate the change of seasons. Interesting invited talks and workshops have been lined up by our gracious hosts at the College of DuPage. The Student Research Symposium has always been the star of the spring meeting. So, let's plan to come together to share and learn from each other.

ISAAPT has been a great resource for me as I settled into my new job in Illinois almost four years ago and ever since. I strongly believe that our section can help up and coming Physics teachers both at the high school and college level. However, not many of the teachers that are

starting their careers know about ISAAPT. Therefore, I would like to end my message with an appeal – let us (each one of us) try to bring at least one uninitiated Physics teacher to the spring meeting. Let us try and contact schools in our areas to introduce Physics teachers to this great resource. Let us talk to the new colleague in our departments and have them join us in the spring meeting.

The online registration is now [open](#). I hope to see many of you there!

-Deepshikha Shukla, President, ISAAPT.

Future ISAAPT Meetings

- Spring 2019: College of DuPage, Glen Ellyn, IL.
- Fall 2019: Joliet Junior College (Joint meeting with the Chicago Section).
- Spring 2020: University of Illinois Urbana-Champaign.

Chicago section meetings

- Spring 2019: April 13, University of Chicago.

More information:

<https://sites.google.com/site/chicagoaapt/>

Future national AAPT meetings

- 2019 Summer Meeting, July 20-24 (Provo, Utah)
- 2020 Winter Meeting, January 18-21 (Orlando, Florida)
- 2020 Summer Meeting, July 18-22 (Amway Grand Plaza Hotel, Grand Rapids, Michigan)

More information:

<http://www.aapt.org/Conferences/meetings.cfm>

APS Prairie section meeting

- Fall 2019 – to be announced

More information:

<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](#).

Connect with ISAAPT

ISAAPT is now on the social media websites!

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”

The contact for these social media sites is Marianna Ruggerio, mrugger2@gmail.com.

ISAAPT Guidebook Program

<https://sites.google.com/site/isaaptsite/brochures/guidebook-program>

Outstanding High School Physics Teacher Award

Kristi Brown of Springfield High School receiving the 2017-18 Outstanding High School Physics Teacher Award

2017-2018 Illinois Outstanding High School Physics Teacher Award was awarded to Kristi Brown of Springfield High School. Congratulations! For a list of past awardees visit the ISAAPT [website](#).

The award for Outstanding High School Physics Teacher is presented at our Fall meetings. Fellow teachers and school administrators who are aware of exceptional performance and enthusiastic student response are encouraged to fill out the online nomination form on the [ISAAPT website](#). Those who are nominated were notified by email from Zak Knott, and asked to fill out the online [Candidate Information Form](#). Previous nominations will be maintained for three years for consideration for future awards.

Call for Nominations for the 2019 Distinguished Service Citation

The distinguished service citation recognizes outstanding contributions to the field of physics teaching in the state of Illinois. 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
- distinguished service at the teacher's home institution.

A list of [past awardees](#) can be found in the ISAAPT website.

Each year, the ISAAPT Executive Council solicits nominations for the Distinguished Service Citation. We invite and encourage you to nominate a fellow colleague for the 2019 Distinguished Service Citation to be presented at the Spring ISAAPT meeting. **Please send your nomination by December 1, 2019** to Andrew Morrison, amorriso@jjc.edu. The [guidelines and procedures](#) for the citation can be found in our [website](#).

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