

The Dialog

March 2005

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“Nanophotonics”: Joint Spring Meeting

The Southern Ohio Section of AAPT will meet on Saturday, April 9, 2005, at the University of Dayton in Dayton, OH. The meeting is a joint meeting with the Ohio Section of the APS and is co-hosted by the Air Force Institute of Technology and the University of Dayton.

The meeting Website is

<http://www.udayton.edu/~physics/OSAPS05/>.

The theme of the meeting is "Nanophotonics." Invited talks will highlight recent exciting developments in optical and photonic devices and quantum control in atom optics. The advance registration deadline is March 25, 2005. A registration form can be found at

http://www.udayton.edu/~physics/OSAPS05/Registration_form.pdf.

A form can also be found attached to your Dialog email.

Contributed papers in any area of physics and physics teaching are welcome! APS members can submit their abstracts on line at <http://abs.aps.org/>. If you're not an APS member, please email your title, author(s) and abstract to Elizabeth George at egeorge@wittenberg.edu. The deadline for abstract submission is March 25, 2005.

Optics Workshop for High School Teachers

An Optics Workshop will be offered on Saturday afternoon for the first 30 high school teachers who sign up on the registration form. The workshop will be free and will include an Optical Society of America Discovery Kit. These kits are targeted to grades six through twelve but are often used for projects at the elementary level and in introductory university courses. The kit features 11 experiments to demonstrate the basic principles of optics. Components include lenses, color filters, polarizers, optical fibers, a mirror, a hologram, a diffraction grating and an optical illusion slide — plus a detailed instruction booklet.

The meeting registration fee for high school teachers is \$10. The registration form must be filled out and mailed, with the \$10 payment, in time to arrive before March 25, 2005 to avoid the late registration fee. The registration form must be checked “yes” to the question “Attend Optics Workshop?”. There is again no charge for the workshop. It is funded by the Ohio Section of APS and the UD Physics Department. Printable electronic versions of the form can be downloaded from www.udayton.edu/~physics/OSAPS05. This site also has several links regarding this workshop. The applicants are strongly encouraged to attend the meeting on Friday afternoon and evening, April 8, and Saturday morning, April 9, as their schedules allow. See the above website for details about the meeting. The workshop will be conducted in a Physics Department laboratory in the UD Science Center. It will run from 1:30-3:30 on Sat. April 9, 2005.

Dr. Rex Berney and Dr. Bob Brecha, both of UD, will lead the workshop. Dr. Berney is a well-known presenter over many years in the Chautauqua short course program sponsored by the National Science Foundation Division of Undergraduate Education. Dr. Brecha teaches physics and electro-optics courses and carries out electro-optics research.

If, after viewing the website, you have additional questions, contact Perry.Yaney@notes.udayton.edu

More exciting events:

If you're able to come early, on Friday, April 8, there will be two more invited talks on photonics, a tour of the UD science and engineering facilities, and an evening banquet followed by a special World Year of Physics public lecture by Dr. David Reitze (Univ. of Florida) on the Laser Interferometer Gravitational Wave Observatory (LIGO). (Banquet reservation deadline is the same as the advance registration deadline, March 25.)

**SOUTHERN OHIO SECTION OF THE AMERICAN
ASSOCIATION OF PHYSICS TEACHERS**

The Dialog
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Please email your address as the Dialog is moving to an all electric format. The Dialog will be sent via email and can also be found at:

www.physics.ohio-state.edu/~aubrecht/sosaapt.html

When did you last pay your membership dues?

If you can't answer this question and are not a lifetime member, it is time to pay your \$10.00 dues to the SOS/AAPT.

Checks for membership can be made out to the SOS/AAPT and sent to the address at the left. Please ask teaching colleagues and valued friends to consider becoming a part of our organization. New members are always welcome and needed.

The executive board of SOS/AAPT are looking for volunteers to serve as at large members of the board. If interested please contact any of the officers list on page one.

Future Meetings of the SOUTHERN OHIO SECTION of the AMERICAN ASSOCIATION of PHYSICS TEACHERS

Fall 2005 -- College of Mt. St. Joseph, 5701 Delhi Rd., Cincinnati, Ohio

Local host:: Mark Fischer, mark_fischer@mail.msj.edu date to be announced