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AMERICAN ASSOCIATION OF PHYSICS TEACHERS

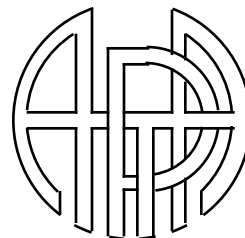
Spring 2002 joint meeting of the SCAAPT and NCNAAPT

Friday and Saturday, April 26-27

Cal Poly San Luis Obispo <http://atom.physics.calpoly.edu/aapt/>

Local Contacts Ron Brown rbrown@calpoly.edu

Tom Bensky tbensky@calpoly.edu



How do I get more information?

Visit the meeting website at <http://atom.physics.calpoly.edu/aapt/> where you can register for the meeting, sign up for meals, get directions to the meeting, find parking and lodging information, etc.

Where and what do I pay?

Section dues are just \$10/year and are our primary source of support; we receive nothing from the national organization. Members get final programs before the meeting and are eligible for great door prizes. See the SCAAPT website for how to sign up by mail or do it at the meeting. We need your support!

What's the Order of Magnitude Question?

"How long does it take for the Sun's mass to be reduced by an amount equal to the mass of Earth?" The SCAAPT or NCNAAPT member with the median answer will get first pick of the door prizes to be given away at the end of the meeting. Other prizes will be given away by a random drawing from the registration forms.

Thank you to our Exhibitors and Supporters!

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Bedford/St. Martins, W.H. Freeman and Worth Publishers

Future meetings (Mark your calendars)

AAPT Summer 2002, Boise, Idaho, August 3-7, 2002

SCAAPT Fall 2002, (to be announced), ~late October 2002

AAPT Winter 2003, Austin, TX, January 11-15, 2003

Subscribe to the SCAAPT email list

Send a message to [<listproc@listproc.csupomona.edu>](mailto:listproc@listproc.csupomona.edu)

with the single line `subscribe scaapt yourname`

(replacing "yourname" with your name!)

Visit the SCAAPT website

for information about the SCAAPT and its meetings, a list of section officers and contacts, a link to the national AAPT, etc.

[<http://www.callutheran.edu/scaapt>](http://www.callutheran.edu/scaapt)

SCAAPT Officers 2000-2001

President: Glenn Malin [<gmalin@iusd.k12.ca.us>](mailto:gmalin@iusd.k12.ca.us)

Past President: Mary Mogge [<memogge@csupomona.edu>](mailto:memogge@csupomona.edu)

Vice President: Paul Stanley [<stanley@callutheran.edu>](mailto:stanley@callutheran.edu)

Vice President HS: Forouzan Faridian [<ffaridia@lausd.k12.ca.us>](mailto:ffaridia@lausd.k12.ca.us)

Section Rep: Harvey Leff [<hsleff@csupomona.edu>](mailto:hsleff@csupomona.edu)

Treasurer: Fernando J. Lopez-Lopez [<flopezlopez@swc.cc.ca.us>](mailto:flopezlopez@swc.cc.ca.us)

Secretary: Sarah Johnson [<johnsosa@ulv.edu>](mailto:johnsosa@ulv.edu)

Editor: John Mallinckrodt [<ajm@csupomona.edu>](mailto:ajm@csupomona.edu)

Meeting Schedule and Program

(Abstracts for contributed talks and posters available at <http://www.csupomona.edu/~scaapt/spring02fullprogram.pdf>)

Friday, 26 April 2002

9:30-10:00, 12:30-1:00, 3:00-3:30, & 6:00-7:00 **Registration**

Follow the signs to the Science Building.

10:00-4:00 **Workshops**

Science Building (Bldg. 52) – Rooms E22, E31, and E34. Go to the info/registration table in the building's front entrance. Spaces are still available in the workshops.

“New Teacher Workshop” (10-4)

Paul Robinson & other Vets. This popular workshop is being offered on Friday (instead of Saturday) so that participants don't have to miss out on the contributed papers. If there are insufficient signups for Friday, we may revert to a Saturday format. It is intended for teachers who are either new to teaching physics and/or those who have been at it for a while but still feel like they're new! All new teachers will be networked with experienced teachers. The workshop includes valuable teaching tips, goodie bags, raffles where everyone wins, question and answer panels, popcorn, and more!

Although there is no fee, interested participants should email Paul at laserpablo@aol.com to register or for more information.

“Getting the Most Out of MBL” (10-4)

Clarence Bakken, Gretchen DeMoss. Are you thinking about starting computer or calculator-based interfacing in your physics labs? Have you been using MBL for a while and are looking for ways to get more depth from your labs? Or do you just want to see a variety of applications of computer interfacing that will fit nicely into your curriculum? Join Clarence Bakken, Gunn High School, and Gretchen Stahmer-DeMoss, of Vernier Software in a hands-on workshop using LabPro and a wide assortment of sensors. Although there is no fee, please email Clarence at clarence@cbakken.net to register or for more information.

“Newton is Not Just Numbers: See the Laws, Be the Laws with PASCO Probes” (1-4)

Cynthia Nielson. Even the most fundamental physics concepts can be hard for many students to comprehend. PASCO's probeware and software together increase student understanding of complex physical concepts like Newton's Third Law of Motion and the Law of Conservation of Energy. Using PASCO probes, students can develop more sophisticated mental models of physics phenomena through data visualization. When meshed with PASCO's standards-based explorations, physics can really come to life. Attend the workshop, experience science, receive a complementary lesson plan and take home an educator's gift. You may even win your own Temperature Lab!

Contact Forouzan Faridian at ffaridia@lausd.k12.ca.us for the latest info and/or to register for the workshop.

7:00 PM **Dinner**

Dinner will be a Mexican buffet at the Sandwich Factory, adjacent to the Science Building. Sign up for dinner (\$19/person) and register for the meeting at <http://atom.physics.calpoly.edu/aapt/>

After dinner talk “The Question of Ancient Life on Mars”

Richard B. Frankel, Cal Poly San Luis Obispo

An update on a talk presented at the 1997 Joint Spring Meeting.

Saturday, 27 April 2002

8:15-9:00 **Registration, Exhibits, Coffee, and Donuts**

Building 33 near Room 286

9:00 **Welcome** (Building 33 – Room 286)

Glenn Malin, Pres., So Cal Section

Dave Wall, Pres., No Cal/Nev Section

Phil Bailey, Dean of the College of Science and Mathematics

Cal Poly, San Luis Obispo

9:15 **Invited Talk**

“What happens when a Professional Society forms an Educational Partnership?”

Fredrick M. Stein, Director of Education and Outreach, American Physical Society

9:45 **Break** Time to visit the exhibits or the poster session

9:45–3:00 **Poster session**

“Peer-Led Team Learning for a College Physics Preparatory Course”

Dominic Calabrese, Sierra College,

dcalabrese@scmail.sierra.cc.ca.us

“Analysis of Simulated Top Quark Decays in the D-Zero Experiment”

Daniel C Kiminki, Sarah D Johnson, University of La Verne,

johnsosa@ulv.edu

“A Student Determination of Boltzmann's Constant”

Dyan Pratt, Cal Poly Pomona

Contributed Talks

10:00 “Scientific Ballooning in the Classroom”

Steve Kliever, Stu Briber, & Joe Manildi, Paso Robles H.S.,

skliever@charter.net

10:20 “Nuclear Fusion Reactions”

Rashmi Arora, Panjab University, arorarashmi@rediffmail.com

10:40 “Applications of Physics Associated with Cataract Surgery”

Paul Peter Urone, California State University, Sacramento,

ppu@csus.edu

11:00 “Did Roemer Measure the Speed of Light?”

Harry Manos (retired), HMANOS@aol.com

11:20 “Anatomy of a Homer”

Paul Robinson, San Mateo High School, laserpablo@aol.com

11:40 “X-Ray and Radio Emission from ESO 295-IGO22”

Edward R. Waluska, ewaluska@msn.com

12:00 **Lunch** at the Veranda Café

About a minute walk from the meeting rooms. There will be a salad/sandwich buffet. \$11/person. Sign up when you register for the meeting at <http://atom.physics.calpoly.edu/aapt/>

1:15 **“Show and Tell”**

Paul Robinson, Dave Wall, Paul Peter Urone, and Myron Mann

2:00 **Invited Talk**

“So, What WOULD Happen If a Magnet Were Dropped Down a Superconducting Tube? or The Meissner Effect Revisited”

Ron Brown, Department of Physics, Cal Poly San Luis Obispo

2:45 **Break**

3:00 “How an Airplane Turns”

Paul Robinson, San Mateo High School, laserpablo@aol.com

3:20 “Using Interactive Physics™ to Explore the Physics of Gases”

John Mallinckrodt, Cal Poly Pomona, ajm@csupomona.edu

3:40 “A Robotic 2.5-Meter Telescope at Mount Laguna for CSU Astronomy”

Paul B. Etzel, San Diego State University, etzel@sciences.sdsu.edu

4:00 “The Science Niche of the 2.5 m Telescope at Mount Laguna Observatory”

Joseph F. Dolan, San Diego State University,

tejfd@splvin.sdsu.edu

4:20 “EM Wave Simulation”

Carl Rosenkilde, Bellarmine College Preparatory,

crosenkilde@bcp.org

4:40 **Order of Magnitude Contest and Door Prizes**

5:00 **Adjourn**