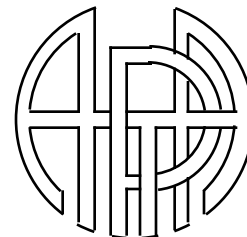


AMERICAN ASSOCIATION OF PHYSICS TEACHERS

Fall 2002 meeting of the Southern California Section

Saturday, October 26, 8:15 AM–4:00 PM

The Donald E. Bianchi Planetarium, CSUN Northridge—18111 Nordhoff Street, Northridge
Local Contact: Julio Blanco, <julio.blanco@csun.edu>, 818-677-3186 or 818-677-2775



8:15 AM	Registration, Refreshments, Exhibits	12:00	Lunch (A picnic on the grass!)
8:30 AM	Workshop “Amusement Park Physics” Leader: Robert Savin, PTR A	1:30 PM	“Show and Tell” MORE fluid demos +: John Mallinckrodt, Gary Reynolds, Roger Morehouse, Harry Manos, Michael Bowen, others?
10:00 AM	Welcome and Introductions	2:00 PM	Invited Talk “The San Fernando Observatory: An Urban Observatory” Dr. Gary Chapman, CSUN
10:15 AM	“Hands on Universe” Richard Buck, Louisville H.S.	2:50 PM	“Galileo’s Lens” Harry Manos, LACC
10:30 AM	“Lurching Waves and DP Graphs” Dean Ayers, CSULB	3:05 PM	“Solar Terrestrial Interaction Project” Bob Coutts, Van Nuys H.S.
10:45 AM	Fluid Demos Glenn Malin, William Layton, Alan DeWeerd, Nuria Rodriguez	3:20 PM	“Planetarium Show”
11:00 AM	Invited Talk “Monitoring Radiation in the Community” Dr. Duane Doty, CSUN	3:45 PM	Order of Magnitude Contest & Door Prizes
11:50 AM	Announcements	4:00 PM	Closing Remarks/Meeting Adjourns

Invited Talk:

“Monitoring Radiation in the Community”

Dr. Duane Doty, CSUN

Several naturally occurring radioactive samples will be shown that teachers can use for demonstration. These are sources commonly available that do not require state license. Detection can be performed with simple surplus gamma measuring devices. A demonstration of a much more sophisticated apparatus will show the background radiation in the lecture room and where its major components come from. This apparatus is similar to the probe that detected radiation on the surface of Mars. The possible measurements in and about the community and the possible results that could be gained from such measurements will be discussed.

Workshop:

“Amusement Park Physics”

Leader: Robert Savin, PTR A

Activities for high school students on “Physics Days” at 6 Flags Magic Mountain and Knott’s Berry Farm. The workshop will provide materials for participant (about 20 expected) to take home with them.

Invited Talk:

“The San Fernando Observatory: An Urban Observatory”

Dr. Gary Chapman, CSUN

The San Fernando Observatory (SFO) has been doing solar astronomy since its dedication in 1969. Built by the Aerospace Corporation, the SFO was placed in the San Fernando valley to take advantage of the stable inversion layer thus giving good images of the Sun. Unfortunately, the inversion layer is responsible for trapping smog and haze that can reduce the intensity of the solar image. One of our main scientific projects over the past 15-plus years has been to measure and understand the variation in the Sun’s output of energy. This work, which has been supported by government research grants, will be described.

Special Event:

Planetarium Show

What would a meeting in a planetarium be without a show? Don’t miss it!

What’s the Order of Magnitude Question?

“If the ocean absorbed and retained all incident solar energy, by how much would its temperature rise in one year?” The winner—*i.e.*, the person with the *median* answer—gets first pick of the door prizes! Must be a member and must be present to win.

What’s for lunch?

CSUN is arranging for box lunches to be purchased for ~\$8 and we will eat on the lawn around the Planetarium or inside if the weather is inclement.

Show’n Tell!

There’s still time available. Share a favorite demo with your friends. The Show’n Tell theme for this meeting is “fluids.”

Grateful thanks to our commercial supporters!

Vernier Software & Technology (www.vernier.com)
(...as of “press time”; others are always welcome!)

Future meetings (Mark your calendars)

AAPT Winter 2003, Austin, TX, January 11-15, 2003
(joint meeting with the National Society of Hispanic Physicists)

SCAAPT Spring 2003, University of LaVerne, May 3, 2003

AAPT Summer 2003, Madison, WI August 2-6, 2003

A. John Mallinckrodt
Physics Department
Cal Poly Pomona
3801 West Temple Avenue
Pomona, CA 91768

ADDRESS CORRECTION REQUESTED



AMERICAN ASSOCIATION OF PHYSICS TEACHERS
Fall 2002 Meeting of the Southern California Section
Saturday, October 26—CSU Northridge

How do I get to the meeting?

Directions:
<http://www.csun.edu/~pubrels/directions/directions.html>

Campus map:
<http://www.csun.edu/maps/>

From the 405 (San Diego fwy), Exit at Nordhoff St. West on Nordhoff to the south side of the campus.

From the 101 (Ventura fwy), Exit at Reseda Blvd. North on Reseda to the west side of the campus.

From the 118 (Reagan fwy), Exit at Reseda Blvd. South on Reseda to the west side of the campus

Parking is free on Saturdays. Use parking lots G3 or G4 off Zelzah Avenue along the east side of the campus.

Bianchi Planetarium is just southeast of the library in the midcampus area.

Where can I stay?

See <http://www.csun.edu/~presofc/hotels.html>

Where 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! Please help introduce us to your school or district colleagues. Bring a new teacher. Heck, bring an old one!

Subscribe to the SCAAPT email list

For members *and* nonmembers. (We think you'll join eventually!)
Send a message to

listproc@listproc.csupomona.edu

with the single line:

subscribe scaapt <name>

(replacing "<name>" with your first and last name!)

Submit a Change of Address Online

You may submit changes of address using the online form available via a link from the section website or directly using

http://www.csupomona.edu/~ajm/scaapt/ch_add.html

Visit the SCAAPT website For meeting information, a list of section officers and contacts, link to the national AAPT, etc.

<http://www.csupomona.edu/~scaapt>

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