

Speakers List

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Compiled by the Committee on Careers and Professional Development (CCPD) and the Forum on Industrial & Applied Physics (FIAP)

The Industrial and Applied Physics Speakers List (IAPSL) contains the names and contact information of industrial and applied physicists who have volunteered to present talks to students, faculty, and other general audiences. This list serves as a resource for middle and high schools, two-year colleges, four-year colleges, and universities that wish to invite industrial and applied physicists to their institutions. The information contained in this list is based on information provided by the listed speakers. APS has not checked or verified this information, has made no attempts to evaluate the speakers, and makes no statements regarding the accuracy of the information. APS encourages those who use the list to evaluate the qualifications and background of the speakers listed before inviting them to give talks at their institutions.

Excerpt from list:

Dr. Igor Alexeff

University of Tennessee
Ferris 315
Middle Drive
Knoxville TN 37996 US
(615) 974-5467
alexeff@utk.edu

Levels: MS HS Gen Colq

Talk titles: 1. Plasma in Everyday Life
2. The Challenge of Nuclear Fusion
3. Industrial Applications of Plasma

Dr. Sivaram Arepalli

G. B. Tech./ NASA-JSC
2101 NASA Road One
Mail stop ES222
Houston TX 77058
281-483-5910
281-483-1605(fax)
sivaram.arepalli1@jsc.nasa.gov

Levels: MS HS Gen Colq

Talk titles: 1. Non-intrusive plasma diagnostics of nanotube production
2. Non-intrusive plasma diagnostics for thermal protection materials at NASA

Dr. Daniel Berdichevsky

Hughes - STX
8713 Rhode Island Ave.
College Park, MD 20740
Greenbelt MD 20770
(301) 286-4608
(301) 286-1683(fax)
xrddb@lepvax.gsfc.nasa.gov

Levels: MS HS Gen Colq

Talk titles: 1. Magnetism and the Earth: A Magnetized Planet
2. The Solar Wind and Space Weather (A Challenge to Global Communications)
3. Watching and Studying Solar Wind (Signal)

Speakers Program

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The Women in Physics Speakers Program is an online list of names and talk titles of 320 women, indexed by field and state.

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by Last Name:	<input type="text"/>	<input type="button" value="Search"/>
by Keyword:	<input type="text"/>	<input type="button" value="Search"/>
by State and Subfield:	Select state <input type="button" value="v"/>	<input type="button" value="Search"/>
	<input type="text"/>	<input type="button" value="v"/>
	<input type="button" value="Clear entries"/>	

Speakers Program

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The Minorities in physics Speakers List (MSL) contains the names, contact information and talk titles of minority physicists who have agreed to give colloquium and general talks to a wide variety of audiences. You may search the online list by name, keyword, state, or physics subfield.

Note: The term "Minorities in physics" refers to Hispanic, African American, and Native American Speakers.

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	<input type="button" value="Clear entries"/>	

View Entire List

To view entire list by state or subfield, select "ANY" in either the state or subfield drop down menu, and then click Search.

APS FIAP Speakers List: <http://units.aps.org/units/fiap/speakers.cfm>

APS Minorities in physics Speakers List: <http://www.aps.org/programs/minorities/speakers>

APS Women in Physics Speakers Program: <http://www.aps.org/programs/women/speakers>

October 17, 2006

«PREFIX». «FIRST_NM» «MIDDLE_INIT» «LAST_NM»
«ADDR1»
«ADDR2»
«ADDR3»
«CITY», «STATE» «POSTAL»

Dear «PREFIX». «LAST_NM»,

Please join us for an afternoon of activities on **Sunday, November 12, 2006** at the Moscone Center and nearby Parc 55 Hotel, in **San Francisco, CA**.

Our afternoon will begin with a **Sigma Pi Sigma Alumni meeting at 4:00 p.m. in the alcove across from Room 3014 in Moscone West**. Take this opportunity to meet with me and other fellow Sigma Pi Sigma members to learn about new programs and express your interest in physics. Local Society of Physics Student Chapter members will present posters of their undergraduate research projects and describe some of their community outreach activities.

Our Alumni group will then join journalist **Paul Roberts to hear his talk on the *End of Oil: Dependence, Depletion, and Denial*, in Room 3001 of Moscone West from 6:00 p.m. – 7:00 p.m.** This free Public Lecture is part of the AVS 53rd International Symposium and Exhibition.

Afterwards, join us and others at a **reception beginning 7:00 pm at the AVS 53rd International Symposium and Exhibition at the Parc Ballroom of the Renaissance Parc 55 Hotel**. Meet with AIP Corporate Associates and AVS members to discuss the latest in physics and nanotechnology. **Please note that only those wearing Sigma Pi Sigma or AVS Symposium name badges will be able to attend this reception, so please make sure that you RSVP below and pick up your name badge at the Sigma Pi Sigma Alumni meeting.**

Please RSVP by November 3 by contacting sigmapisigmafriends@aip.org or call 301-209-3006 and leave your name, the names of your guests and your e-mail address so that we may prepare a name badge.

Sincerely,



Gary White

Director of SPS & Sigma Pi Sigma

AIP-APS Industrial/Academic Mixer: Preparing the Next Generation Workforce in High Technology

By Jerry Hobbs, Director of Industrial Outreach, American Institute of Physics



Portia Wolfe (L) and Nicole Duncan (R), SPS members from the University of Colorado-Boulder; with Larry Schwartz (center), Director of University Relations, Schlumberger/Doll Research.

The American Physical Society (APS) and the American Institute of Physics (AIP) were pleased to host the Industrial/Academic Physics Mixer on Sunday, March 4, 2007, just prior to the [APS March Meeting](#) in Denver, CO. The topic of the mixer was *Preparing the Next Generation Workforce in High Technology*. The goal of these forums are to forge closer ties between academic and industrial physicists.

There were two short talks during the event, but most of the time was reserved for discussion and interaction. Members of Society of Physics Students (SPS) chapters in the Denver area were in attendance, some of whom brought posters presenting their research to discuss with attendees, and to interact with the representatives from industry and academia.

The mix of attendees was well balanced between industry and academia. There was also a diverse mix of male and female attendees. SPS undergraduate posters delivered a high-profile contribution to the event and discussions. The general perception of those in attendance was that the quality of the crowd, conversations, research, and refreshments reflected well on both APS and AIP. Many said they would not only attend the next similar event, but also encourage others to join in.

The exposure for physics roles in the Colorado Nanotechnology Alliance, Colorado Photonics Industry Alliance, and Colorado Biosciences was elevated in a positive manner as a result of this event. State of Colorado Economic Development staff and members are now positively aware of AIP and APS's active involvement in science advocacy and service programs.



Cary Pint (L), recipient of the 2006 SPS Outstanding Student Awards for Undergraduate Research, explains his research to one of the attendees.



Anna Hodd-McNeill (L), an SPS member from Metropolitan State College of Denver and Marc Brodsky (R), former Executive Director of the American Institute of Physics.

AVS International Symposium Meeting Report

November 12-16, 2006, San Francisco, CA

By Alex John Brown, SPS Reporter & 2006 SPS Intern: Wittenberg University, Springfield, OH



Alex Brown

I had the opportunity to attend the AVS 53rd International Symposium & Exhibition along with the Industrial Physics Forum in San Francisco, CA from November 12-15 2006. The invitation was extended to me as an opportunity to present the research I had performed as an SPS Intern over the summer at the National Institute of Standards & Technology (NIST). In addition to enjoying classic sourdough bread with Gary White, dining with the crew of AIP and exploring the streets of San Francisco in the evenings, I was able to attend invited lectures by experts in thin-films, metrology, and medical physics, as well as interview the Vice-Program Chair of AVS, Neal Shinn.

When I arrived in San Francisco on Sunday evening, I made my way to the Renaissance Parc 55 Hotel and checked in to my room. After having dinner with Dr. White at a famous San Francisco bread shop, I prepared for a poster session at the Moscone Center where, along with about ten other physics students, I presented my research.

I saw at this event one of the big perks of working in physics; free food. In addition to being in the presence of talented and motivated researchers and having the opportunity to explain my research to scientists on the forefront of their fields, I had a selection of cheeses, juices, crackers, and salsas with which to satisfy the appetite I had worked up since dinner. There were students presenting research from a wide variety of schools, from East Asia to Canada and many universities in the States. In examining the posters of other students, I found some projects closely related to my field and some in fields I hadn't even heard of. It was inspiring to see such a broad range of scientific interest. I even met a Ph.D. candidate from Canada whose thesis topic was closely tied to the research I had done (combinatory thin-film composition and measurement), and he was extremely interested in my results and the potential application of some of my techniques to his project. This was an excellent opportunity to get an overview of what other undergraduates are doing around the world in the physical sciences. For the following few days, I spent much of my time in invited talks listening to particular researchers discuss progress in their fields.



One of the many invited talks during the AVS 53rd International Symposium.

On Monday morning, I heard M.M. Sung from Hanyang University in South Korea present on the lab's use of self-assembled monolayers and micro contact printing in order to make electrical components as well as their Nanotube and nanocable fabrication techniques. Later that morning, I attended a talk by L.J. Gamble of the University of Washington on quantitative XPS imaging of DNA microarray surfaces. It was fascinating to hear about the many imaging techniques currently in place along with the strengths and weaknesses of each and why this lab's methods are the most desirable for their particular application.

Dr. J.R. Baker, Jr., a medical doctor from the University of Michigan, gave an invited talk on DNA-linked dendrimer nanoparticle systems for cancer diagnosis and treatment in which he explained the results of research on treating cancer in mice as well as the difficulties of achieving approval from the FDA once a medicine or procedure has been discovered. Another researcher explained some difficulties associated with atomic force microscopy in simple terms. The researcher discussed how if the tip of the probe is incident on a local maximum, it will relax or flex to the side so as to sit in a lower area, (shown on the right of the figure below) which would throw off the measurements.

Continued at, http://www.spsnational.org/meetings/reports/2006/avs_53rd.htm

Alison Earnhart
1601 Mifflin St. Apt. 1
Huntingdon, PA 16652
Earnhah3@juniata.edu

April 16, 2007

Donor's Name
Address
City, State, Zip

Dear Donor:

I was recently notified that I have been awarded a Society of Physics Students (SPS) Leadership Scholarship and Future Teacher Scholarship for the coming academic year. Thank you so much for your generous contribution to make scholarships like this possible! I feel compelled to express my gratitude for your kind support and to let you know a little bit about myself and where your money is being put to use.

I am currently a senior studying Physics and Education at Juniata College in Huntingdon, Pa. I will be graduating with my class next month, but will be returning to Juniata in the fall to complete my teaching certification by student teaching at the State College Area High School just forty minutes north of campus. I have already been working a lot with the students at that school and have been teaching both at the high school and college level for a few years now. Let me tell you, it is my dream! I love to teach, I love physics, and I am happiest when I am inspiring those around me to marvel at the wonder of nature's laws. Thank you for contributing to making my dream come true.

I love Juniata's chapter of the Society of Physics Students, and have been an active member since my freshman year. I am currently the vice president, but have also served as president, treasurer, and secretary in years past. We have a very active group, and our achievements include eight Outstanding Chapter awards in a row, and last year's Outstanding SPS Chapter Advisor award. We put on community and school physics outreach programs at least once every semester, the biggest of which was last week's Physics Phun Nite. At Physics Phun Nite, we invite students from all the local elementary schools (as well as students on campus and other community members) to come watch us put on a physics demonstration show that always includes a lot of explosions, projectiles, and liquid nitrogen!

Aside from working and studying in the physics and education departments, I am a member of various clubs and organizations on campus. I am a member of the student peace organization PAX-O and the United Spiritual Council, a DJ for our college radio station, and an executive officer of our women's rugby club.

Once again, thank you for your support. I am especially grateful for the opportunities that your donation will provide me through this scholarship as I continue my education. Your generosity truly makes a difference.

Sincerely,

Alison Earnhart