

The Hispanic Physicist

The Newsletter of the National Society of Hispanic Physicists

NSHP to Incorporate under the Sponsorship of SURA

The NSHP Board has voted unanimously to incorporate (obtain official 501(C)3 status) under the sponsorship of the Southeastern Universities Research Association (SURA, www.sura.org). SURA managed the NSF grant for the 2011 Joint Annual Conference of NSBP and NSHP held in Austin, Texas, in September, 2011. SURA has experience in helping organizations become legal not-for-profits and then managing the finances of these organizations. The Board also reaffirmed its commitment to build a stronger relationship with the American Physical Society.

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SOUTHEASTERN UNIVERSITIES RESEARCH ASSOCIATION



SACNAS | Devoted to Advancing Hispanics,
Chicanos & Native Americans in Science

and researchers in physics, astronomy, and related fields at the annual Society for the Advancement of Chicanos and Native Americans in Science (SACNAS, www.sacnas.org) National Conference has been funded. The grant is for a total of \$75,000 over three years starting with the 2012 meeting to be held in Seattle, Washington, October 11-14. The grant will support the attendance of students and speakers at the conference. The grant will go to the Southeastern University Research Association (SURA) who will manage the grant on behalf of NSHP. Luz Martinez-Miranda, Marcel Agueros, and David Ernst wrote the proposal.

NSHP Receives NSF Grant to Support

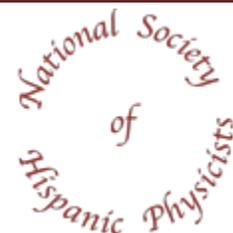
Participation in SACNAS National Conference

A proposal to the National Science Foundation to increase the participation of students, faculty,

Our thanks Luz, Marcel and Dave!

NSHP Annual Board Meeting to be held during SACNAS Meeting

NSHP will have its annual board meeting on Friday, October 12, during the SACNAS meeting in the Washington State Convention Center in Seattle, WA at 5 PM, room TBA. Everybody is welcome to come and meet with the board and other NSHP members! Contact: Prof. L. J. Martinez-Miranda, Dept of Materials Science and Eng., University of Maryland, College Park, MD 207420 USA, ljmm@umd.edu.



University of Oregon and Lawrence Berkeley National Laboratory

Postdoctoral Position In Coherent Soft X-ray Scattering Studies of Complex Magnetic Materials

The University of Oregon and the Advanced Light Source seek a highly motivated postdoctoral fellow to join a small, world-class team pursuing coherent soft x-ray diffractive imaging and correlation spectroscopy measurements of complex oxide and magnetic materials. The successful candidate will be stationed at the ALS at Lawrence Berkeley National Laboratory, working closely with a team lead by Prof. Steve Kevan from the University of Oregon and ALS Staff Scientist Sujoy Roy. A PhD in physics or closely related field within the last couple of years is required. Familiarity with magnetic scattering or other synchrotron radiation research is advantageous. Ability to formulate and use advanced analysis techniques using computational methods is desired. Key responsibilities include developing experimental and computational methods for coherent x-ray science that include but are not limited to coherent x-ray scattering and imaging, and communicating results via conference presentations and publications in refereed journals. Demonstrated commitment to working effectively with faculty, staff and students from diverse backgrounds is expected.

This is a full-time position, with support shared by the University of Oregon and the ALS. The initial term is for one year starting in summer or fall of 2012 with renewal for 1-2 years possible thereafter. Candidates should submit an application letter and a curriculum vitae to academicjobsonline.com, and should arrange to have three letters of recommendation submitted to the same site. Review of applications will begin on August 1, 2012 but applications will be

accepted until the position is filled. The University of Oregon is an equal opportunity, affirmative action institution committed to cultural diversity and compliance with the ADA.

University of Wisconsin-Madison, IceCube Computing Facilities Manager

The University of Wisconsin-Madison is a research institution with an international reputation in physical sciences research and education. The Wisconsin IceCube Particle Astrophysics Center (WIPAC) is a research center in the Graduate School with responsibility for the IceCube Neutrino Observatory, a kilometer-scale neutrino detector at the South Pole. The detector consists of more than 5000 optical sensors deployed over one kilometer-deep in Antarctic ice. A collaboration of scientists from over thirty worldwide research institutions collectively participates in a research program to study high-energy neutrinos from cosmic sources. The collaboration uses the IceCube Neutrino Observatory at the National Science Foundation's Amundsen-Scott South Pole Station for this research program. UW-Madison is responsible to the National Science Foundation and to the IceCube collaboration for the maintenance and operation of the observatory. Details can be found at <http://icecube.wisc.edu>. The IceCube data center located at the University of Wisconsin-Madison (UW-Madison) includes about 2.5+PB of disk storage, 1500+ CPUs, and various tape storage facilities including an HSM of ~1.2PB. The computing systems at the South Pole consist of about 200 servers in different configurations to ensure data reduction and storage.

The IceCube Computing Facilities Manager (ICFM) is responsible for IceCube computing facilities and services. The primary focus is IceCube computing facilities located within the Wisconsin IceCube Particle Astrophysics Center (WIPAC) and other UW-Madison campus locations including the Physics Department. The manager also has responsibility to the IceCube Collaboration and its nearly forty collaborating institutions to provide timely access to IceCube data and computing resources. The distributed nature of the collaboration requires the use of a distributed computing infrastructure located at collaborating institutions. The manager works with the principle users to facilitate the use of distributed computing resources.

Degree and area of specialization: Master's degree or higher in Physics, Computer Science, or Electrical Engineering, or related field will be considered. Ph.D. preferred.

Minimum number of years and type of relevant work experience: Highly qualified candidates will have experience managing large computing facilities used in a collaborative scientific research environment.

Minimum of at least five years direct experience in management of computing facilities including the following:

- High Performance Computing techniques employed on large data sets
- Tiered data storage systems
- Networking
- Data processing and interactive user access techniques
- Information technology, computing, and software staff supervision
- Maintenance and operation of a remotely located computing facility and understanding of physics data formats and data manipulation are a plus

This position is located in Madison, Wisconsin, United States. Pay range is USD \$90,000 – \$130,000 depending on qualifications, plus excellent benefits.

How to Apply:

To ensure consideration applications must be received by August 31, 2012 Application should include a resume and cover letter. E-mail the materials referring to Position Vacancy Listing #73267 to: Frances Culwell, IceCube, Suite 500, 222 W. Washington Ave., Madison WI 53703, hr@icecube.wisc.edu, Phone: 608-263-9896. Unless confidentiality is requested in writing, information regarding the names of applicants must be released upon request. Finalists cannot be guaranteed confidentiality.

Florida International University Instructor of Physics Education

The Department of Physics at Florida International University invites applications for a position of Instructor of Physics Education to begin fall of 2012. A Master's in Physics or Physics or Science Education or extensive teaching experience at the secondary and college level is required. Candidates should have experience teaching introductory physics courses and have excellent teaching, organizational, and supervisory skills. The successful candidate will assist faculty in teaching reformed introductory physics classes, conduct professional development workshops with high school science teachers, and assist in the recruitment and preparation undergraduate pre-service science teaching candidates. Inquiries may be addressed to Dr. Laird Kramer, Laird.Kramer@fiu.edu. Interested candidates should apply online at <http://jobsearch.fiu.edu> and reference the Job Opening ID 504641 (under Advanced Search). Please include a vita, contact information for three potential references, and a letter describing teaching philosophy. Review of applications

will begin August 1, 2012 and continue until the position is filled. For more information about the Department, visit our website: <http://physics.fiu.edu/>.



2012 APS 4-Corners Section Regional Meeting
October 26-27, 2012
New Mexico Tech
Socorro, NM

**Join us for the
broadest physics
event in the
Four Corners area!**

The banner features a photograph of a desert landscape with a large, full moon in a clear blue sky. In the foreground, there are brown, rocky hills. A small, orange letter 'M' is visible on the right side of the hills.



Midland College
Celebrating 40 Years

West Texas STEM Undergraduate Research Conference
October 5-6, 2012
Midland College, Midland, Texas

Deadline for Abstracts: September 21, 2012
(presenters can still register after this date, but your abstract will not appear in the booklet being distributed to conference participants)

Conference Registration: \$25 / Person
(UT-LSAMP Participants: No registration fee due)

The 2012 West Texas STEM Undergraduate Research Conference is designed to be a regional showcase of research in Science, Technology, Engineering and Mathematics (STEM) performed by undergraduate students.

The banner features a central circular logo with a gear, a leaf, a pi symbol, and a beaker. The text '2012 West Texas STEM Undergraduate Research Conference' is written around the gear.

Research Associate – Cornell University

The Laboratory for Elementary-Particle Physics at Cornell University invites applications for a Research Associate position to work on Fermilab E989, the new muon g-2 experiment. The Cornell group has primary responsibility for development of the kicker required to store the muon beam, and of the electromagnetic calorimeter electronics. We are also involved significantly in a broad array of simulation and analysis activities. The successful candidate is expected to take a lead role in one of the hardware and associated simulation activities, as well as in the development of a new technique for the determination of g-2.

Applicants must have a PhD in experimental high energy, nuclear or accelerator physics. Appointments are nominally for three years with the possibility for renewal. Applications should be submitted at <http://academicjobsonline.org/> (posting number 1587) and should include a CV, a list of publications, and a detailed summary of research experience and interests. Applicants must arrange to have at least three letters of recommendation from individuals who have detailed, relevant knowledge of the candidate uploaded, as per instructions on the Academic Jobs Online website. All materials, including all letters of recommendation, must be received by October 31, 2012. Complete applications will be considered immediately, and the position can commence as early as August, 2012. For information about the position, contact Prof. Lawrence Gibbons at lawrence.gibbons@cornell.edu.

Fisk-Vanderbilt Master's to PhD Bridge Program Graduates Its First Hispanic Student

The Fisk-Vanderbilt Master's to PhD Bridge Program graduated its first PhD awarded to an Hispanic student. The Program is this year poised to become the number one producer of African-American PhD's in physics, astronomy, and materials science. With the strong connections of Keivan Stassun and David Ernst to the Hispanic physics community, it is not

surprising that the program will also be producing Hispanic PhD's in these fields. Thompson "Tommy" Le Blank has just finished his PhD at Vanderbilt and is the first Hispanic student in the program to complete a PhD and the first student in astronomy in the program to complete the PhD. Tommy's dissertation advisor was Keivan Stassun. He moves to a staff position at the NASA supported Space Telescope Science Institute on the Johns Hopkins campus. For more info see:

<http://nbclatino.com/2012/07/24/vanderbilt-university-program-bridges-latinos-to-phd-degrees/>

Nominate NSHP members for APS Committees

The APS committees listed below play a major role in guiding the Society's activities. At the end of each year, about a third of the members of these committees finish their terms and the APS Committee on Committees seeks nominations for their replacements. I am writing to urge you to nominate APS members who in your opinion have the necessary expertise and interest. A description of each of these committees is available from the online nomination form. Please feel free to nominate yourself.

Publications Oversight Committee, Careers & Professional Development, Constitution & Bylaws Fellowship, Membership Education, Minorities in Physics, Meetings, Status of Women in Physics Investment, Physics Policy Committee, International Freedom of Scientists, International Scientific Affairs Historical Sites Committee, Committee on Informing the Public.

Please send your nominations to the Committee on Committees by using the online form at

<http://www.aps.org/about/governance/committees/nominations.cfm>

It is vital that you provide as much information as you can about the person you are nominating, particularly your statement regarding what strengths this person has that will be valuable to the committee.

Attracting and serving a diverse and inclusive membership worldwide is a primary goal for APS. In calling for nominations, I wish to remind you how important it is to give full consideration to qualified women and members of under-represented minority groups, as well as to candidates from outside the United States.

If you prefer not to use the web form, you may instead send an email message to governance@aps.org identifying the person you are nominating, providing a couple of paragraphs of background on the individual and stating why you feel the nominee is particularly well suited for the position. This is extremely important for members of the Committee on Committees who might not be familiar with your nominee.

Nominations should be submitted by August 31, 2012. The Committee on Committees will meet in the middle of September to select a set of candidates to recommend to the APS President-elect, who makes the final, official appointments.

The Hispanic Physicist. Published whenever there is news and the editor has enough time. Send news, letters, congratulations, etc. to Jorge A. López, Physics Department, Univ. Texas at El Paso, 500 W. University Ave., El Paso, TX 79968, (915) 747-7528, jorgelopez@utep.edu, <http://hispanicphysicists.org>.