

The Hispanic Physicist

The Newsletter of the National Society of Hispanic Physicists

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NSHP gatherings at APS April Meeting



NSHP members met for chat, food and drinks on several occasions during the APS April meeting in Baltimore last April 12. In the pictures one can identify NSHP President Luz Martinez Miranda, Former Bouchet Award recipient Jorge Pullin, NSHP founding member Alex de Lozanne, NSHP Secretary David Ernst, APS-COM member Edmundo Garcia and APS Director of Education Ted Hodapp, among others.



Laszlo Sajo Bohus is named Professor Emeritus

Universidad Simon Bolivar (USB) of Venezuela named Dr. Laszlo Sajo Bohus Emeritus Professor for “valuable research contributions in nuclear physics”. Laszlo was the initiator of the Latin American Symposium on Nuclear Physics and Applications, now in its 11th edition (see announcement below) and is the current director of USB’s Ph.D. in Interdisciplinary Sciences. See USB news release here <http://usbnoticias.info/post/39807>.

Sekazi Mtingwa featured in Physics Today’s Interviews

Last February, after a three-year hiatus, NSHP sister organization the National Society of Black Physicists held their annual scientific conference in Baltimore, Maryland. During the conference Sekazi Mtingwa, among others, was included in a selected round of interviews. Read complete article here:

http://scitation.aip.org/content/aip/magazine/physicstoday/news/10.1063/PT.5.9036?utm_source=Physics+Today&utm_medium=email&utm_campaign=5494615_Physics+Today%3a+The+week+in+Physics+23-27+March&dm_i=1Y69,39R07,E1NYG1,BPI6F,1



Research/Teaching position sought: Edgar Avalos

Specialized in non-linear Physics, Dr. Avalos has been a Visiting Researcher in Tohoku University and Hokkaido University in Japan, in Chung Yuan Christian University and National Central University in Taiwan, SUNY-Buffalo, Universidad Pablo de Olavide in Spain, as well as in his alma mater Metropolitan Autonomous University, Mexico. Hic complete CV can be found here: <http://edgaravalos.blogspot.com/2009/11/cv.html>.

"The 11th Latin American Symposium on Nuclear Physics and Applications"



Will be held on November 30 - December 4, 2015 in Medellín, Colombia. The symposium will be preceded by a School on Medical Physics, on November 27-28, 2015. This is the eleventh event in a series which were previously held in Venezuela, Colombia, Mexico, Brazil, Argentina, Peru, Chile, Ecuador and Uruguay. Traditionally, the purpose of these symposia is the dissemination of major theoretical and experimental advances in nuclear science, with emphasis on research topics carried out by Latin American groups or in collaborations involving institutions from Latin America.

ORGANIZERS



More information: <http://gfnun.unal.edu.co/xi-lasnpa/>

Job opportunities below at Brookhaven National Lab

Neutrinos:

<http://www.chemistry.bnl.gov/SciandTech/SN/default.htm>

Plant Biology:

<http://www.bnl.gov/biosciences/plant.php>

Computational Sciences:

<http://www.bnl.gov/biosciences/computational.php>

Biofuels:

<http://www.bnl.gov/SET/conversion.php>



TENURE-TRACK POSITION - THEORETICAL NUCLEAR PHYSICS - TEXAS A&M UNIVERSITY

The Physics and Astronomy Department at Texas A&M University seeks applications for a tenure-track assistant professor position in theoretical low-energy nuclear physics under the auspices of the Nuclear Solutions Institute. More senior candidates may be considered at the associate professor or professor level. A selected candidate must hold an earned Ph.D. in physics or a related area. The appointment is expected to begin on September 1, 2015. The Nuclear Solutions Institute combines basic and applied nuclear science with nuclear security technology and policy; it already encompasses a broad spectrum of faculty members drawn from across the university. The basic nuclear science program, which is conducted at the Cyclotron Institute, includes efforts in fundamental symmetries, nuclear structure and reactions, hot nuclei, nuclear astrophysics, few-body physics, and relativistic heavy ion collisions. The successful candidate for this position, who will have a joint appointment in the Cyclotron Institute and the Nuclear Solutions Institute, is expected to strengthen and/or broaden the existing basic science research in the area of low-energy nuclear theory. He/she will also assume full teaching responsibilities at the graduate and undergraduate levels and to conduct a vigorous research program.

Each application should include: a cover letter, curriculum vita, list of publications, description of future research plans, teaching statement, and names, addresses, telephone numbers, and e-mail addresses of at least three references. Application packages should be submitted by e-mail to facultysearch@physics.tamu.edu. APPLICATION REVIEW WILL BEGIN ON MAY 15, 2015, AND CONTINUE UNTIL THE POSITION IS FILLED.



Spectroscopist / Materials Scientist / Physicist / Chemist / Chemical Engineer

An opportunity exists for post-doctoral researchers to conduct analytical research in support of NETL Solid Oxide Fuel Cells research. Research efforts associated with this position focuses primarily on: (1) examination of SOFC structures using advanced analytical techniques including FIB-SEM, nano-CT, and plasma FIB; (2) reconstructions of microstructural and generation of high fidelity visualizations; and (3) transfer of data sets to support computational examinations of SOFC performance. For more information, please visit <http://orau.gov/netl/open-projects/projects.html>

Computational Chemist / Physicist / Materials Scientist / Electrochemist

An opportunity exists for post-doctoral researchers or to develop computational models and data analysis tools to support NETL Solid Oxide Fuel Cells research. Research efforts focus primarily on: (1) accurate capture and computational representation of relevant physical and chemical processes; and (2) validation of models using detailed in-house experiments or independently published reports. This position will provide support to transfer existing models to a High Performance Computing (HPC) platform, operate the codes to ensure accurate results are being obtained, apply user interfaces on models to facilitate broader accessibility, and integrate component models. For more information, please visit <http://orau.gov/netl/open-projects/projects.html>

“Complex Electronic Materials” Postdoctoral Position at CHESS



The Cornell High Energy Synchrotron Source (CHESS), in collaboration with the Cornell Center for Materials Research (CCMR), has an opening for a Postdoctoral Associate. This individual will be jointly affiliated with CHESS and the “Controlling Complex Electronic Materials” Interdisciplinary Research Group (IRG) in the CCMR. Applicants must have a Ph.D. and previous experience with materials physics and x-ray or neutron scattering. Individuals selected for this position will exploit CHESS undulator beams to perform high-resolution scattering studies of materials of interest to the IRG, particularly thin films and heterostructures.

The IRG is focused on understanding and controlling complex electronic materials where quantum many-body interactions can produce spectacular electronic and magnetic properties. These properties include colossal magnetoresistance, giant thermoelectric power, spin-polarized “half-metallic” ferromagnetism, high temperature superconductivity, huge electric field effects, and many forms of nanoscale electron self-organization. Recent work in the IRG has been published in *Science*, *Nature Physics*, *Nature Nanotechnology*, *Nature Materials*, and *Physical Review Letters*. Affiliated PIs include Joel Brock (Applied & Engineering Physics & Director of CHESS), J.C. Seamus Davis (Physics), Craig Fennie, David Muller, and Lena Fitting Kourkoutis (Applied & Engineering Physics), Andrew Millis (Columbia University), Jacob Ruff (CHESS), Darrell Schlom (co-leader, Materials Science & Engineering), and Kyle Shen (co-leader, Physics).

Applications should be submitted at <http://academicjobsonline.org/> (posting #5507) and should include a cover letter, a CV, a list of publications, and a detailed summary of research experience and interests. Applicants must arrange to have two letters of recommendation sent, as per instructions on the academicjobsonline website. The starting date is negotiable. For more information about the position, please contact Dr. Jacob Ruff (jruff@cornell.edu) and/or Prof. Kyle Shen (kmshe@cornell.edu).

Cornell High Energy Synchrotron Source



Postdoctoral Associate
Characterization of Nuclear Materials, Data
Analysis & Aerosol Science
Savannah River National Laboratory, Aiken,
South Carolina

We know finding a postdoctoral position after graduation can be challenging! SRNL, a U.S. Department of Energy applied research and development laboratory, has a postdoctoral research position open within its National Security Directorate. The successful candidate will have a recent Ph.D. (earned within the past 5 years) in chemistry, radiochemistry, nuclear engineering, material science, oceanography, geology, environmental engineering, environmental chemistry, analytical chemistry, nuclear forensics, aerosol science, physics, materials analysis or an associated field.

Research may be conducted in one or more of the following areas: Materials characterization R&D studies of nuclear materials, data processing and statistical analysis, or aerosol measurement science. Candidates that can demonstrate significant experience with a wide range of analytical instruments and have published peer-reviewed scientific papers are encouraged to apply. The position has an initial one-year appointment, with the possibility of renewal. Want to apply? Go to www.zintellect.com, make an account, and enter the reference code SRNL-15-03-NSD to find the position posting. To hear more about position openings like this, follow us on Twitter at @GovInternships.

Postdoc needed at SRNL! Research Associate in Materials Science & Chemistry
Savannah River National Laboratory (SRNL) – Aiken, South Carolina

Enthusiastic and creative chemist, chemical engineer or materials scientist wanted! SRNL is seeking a postdoctoral researcher to help develop novel and innovative applications for a variety of diverse projects, with a focus on synthesis of radiation-resistant polymers. Tasks will include working with various organic compounds, analyzing and testing polymer samples, sample preparation & characterization, data analysis, experimental planning, customer interaction & report and manuscript preparation.

Qualifications include: A recent (received within the last 5 years), Ph.D. degree in a relevant subject; experience with organic materials, polymers, nanomaterials, and/or surfactants, especially in the area of organic or organo-metallic chemistry/materials including polymerization, synthesis, characterization, materials applications, and product development; and a strong background in optical, structural and physical characterization methods, such as magnetism, spectroscopy, modeling and nuclear detection.

To apply, go to www.zintellect.com, make an account, and enter the reference code SRNL15-04-ESD to find the position posting. You can also visit us on our website at www.orau.org/srnl/applicants/current-research-opportunities.aspx. To hear more about position openings like this, follow us on Twitter at @GovCareerPaths.

 **Nanoscale Science & Engineering**
for Agriculture & Food Systems

I want to inform you of an exciting Gordon Research Conference (GRC) on "Nanoscale Science and Engineering for Agriculture and Food Systems" at Bentley University, Waltham, MA from June 7 – 12, 2015 and seek your assistance in attracting a diverse participation of underrepresented minorities and women, particularly early career scientists and engineers. I want to especially encourage you to bring this GRC to attention of graduate students and postdocs. We are seeking funds to support partial, if not all, costs of registration for graduate students and postdocs! It is expected that all students and postdocs attending will bring a poster. Persons can now use the following link to apply to this GRC: <http://www.grc.org/programs.aspx?id=16884> (then click "ONLINE APPLICATION" in the upper right part of the

screen). We hope that most of those attending the conference will present a poster to compliment a world-class group of invited speakers.

Now is the time to apply. As noted above we hope to be able to provide partial funding to every student, post-doc and assistant professor. Our efforts at acquiring funding are underway but at this moment in the registration process we are not able to allocate funds until the additional funds are received. Because in the "official" registration process the GRC requires a financial commitment you may want to tell students to wait a bit at which time we hope to be able to allocate funding support for the applicants. If a person does register now using their credit card and we are able to provide partial or full registration support, there will be a reimbursement to the respective credit card when we have funds available to allocate. The GRC is limited to 200 persons (maximum) but we are at about 1/3 of this number of applicants to date.

Contact: Norm Scott, Department of Biological & Environmental Engineering, Cornell University, nrs5@cornell.edu

The Hispanic Physicist. Published whenever there is news and the Editor has enough time. Send news, letters, congratulations, etc. to Jorge A. Lopez, jorgelopez@utep.edu. <http://www.hispanicphysicists.org/>.