

The Hispanic Physicist

The Newsletter of the National Society of Hispanic Physicists

Year 17

October 25, 2012

Victor Blanco Undergraduate Summer Fellows Program

NSHP has partnered with the Laser Interferometer Gravitational Wave Observatory (LIGO, www.ligo.caltech.edu) to establish the Victor Blanco Undergraduate Summer Fellows Program, a program for undergraduates to do research at LIGO. LIGO is searching for gravity waves and

requires not only physicists, but engineers doing instrumentation and optics, computational

scientists, and a variety of other skills. NSHP will advertise the program and help to select the fellows. We are looking for Hispanic, Native-American, or Hawaiian-American (or other minority) students. The Fellowship is named after Victor M. Blanco (en.wikipedia.org/wiki/Victor_Manuel_Blanco) an accomplished astronomer born in Puerto Rico who made many important

discoveries and built and directed the Cerro Tololo Inter-American Observatory in Chile for 14 years.

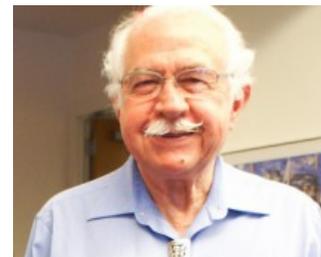
Stay tuned as we will be providing application information soon!



J.D. Garcia received the Distinguished Service Award from AAPT

J.D. Garcia, Professor of Physics at the University of Arizona, NSHP's first President, and former President of the Society for the Advancement of Chicanos and Native Americans in Science (SACNAS), was awarded a Distinguished Service Citation by the American Association of Physics Teachers (AAPT) at its Summer Conference held in Philadelphia, July 28 - August 1. "JD" has served on the AAPT Committee on Professional Concerns, Committee on Minorities in Physics, Committee on Undergraduate Physics, and the Meetings Committee, and on many task forces: the National Task Force on Undergraduate Physics (SIN-UP), the Joint AAPT-APS Task Force on Graduate Education, and the Task Force on Teacher Education in Physics (TTEP). He has been a coordinator of the Tucson Area Physics Teachers (TAPT) for more than 30 years.

Thank you JD for all that you have done and all that you continue to do!



Miguel Yacaman Wins SACNAS Distinguished Scientist Award.

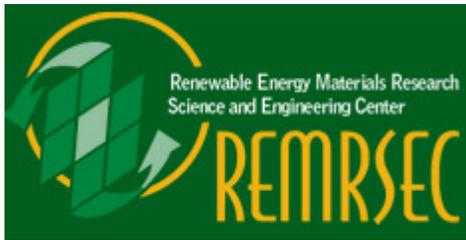
Miguel Jose Yacaman, Professor and Department Chair, Department of Physics and Astronomy, University of Texas San Antonio, received the SACNAS Distinguished Scientist Award at the SACNAS Conference in Seattle last Oct. 11-14. Miguel's research focuses on nano-materials including metals, semiconductors, and magnetic materials. He is the author of nine books and over 450 technical papers. He has held a Guggenheim Fellowship and has won the National Science

Prize of Mexico. He is an early founder of nano-science, publishing in this area in the 1970's. More than 50 PhD and Masters students have graduated under his guidance. Under his leadership, UTSA developed a physics doctoral program jointly with UT Brownsville, developed an NSF-funded PREM program which educates under-represented minority students from south Texas at UTSA and Northwestern Universities, and also created the RCMI-NIH program for building nanotechnology in minority-serving institutions.

A big congratulations to Miguel!



REU in Renewable Energy at Colorado School of Mines (May 27 to Aug. 2, 2013)



The Renewable Energy Materials Research Science and Engineering Center REU program invites undergraduate math, science, and engineering students to participate in a ten-week summer research program addressing fundamental materials issues related to the science and technology of renewable energy. Benefits include a \$4500 stipend, on-campus housing, travel reimbursement, and financial support to present research results at an upcoming national conference. Application materials, as well as videos of the college campus, REMRSEC, and previous student research projects can be found at <http://remrsec.mines.edu/reu.htm>. The application deadline is February 1, 2013, although strong candidates will be accepted early. For more information contact Dr. Chuck Stone – Director, REMRSEC REU, Colorado School of Mines, 1523 Illinois Street, Golden, CO 80401 [email: cstone@mines.edu and phone: (303) 273-3762].

TENURE TRACK FACULTY POSITION – NMSU/LANSCE

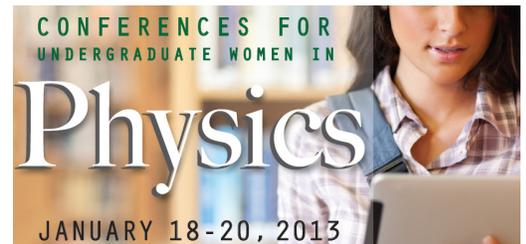


The Department of Physics at New Mexico State University anticipates hiring a tenure-track assistant professor in experimental neutron scattering or neutron radiography. This LANSCE Professorship will be a joint appointment with the Los Alamos Neutron Scattering Center (LANSCE) for the initial six years (or until tenure). The incoming LANSCE Professor will split his or her time equally between the Los Alamos Manuel Lujan Neutron Scattering Center and NMSU's Department of Physics. Candidates should have a strong background in neutron scattering or similar techniques, and a PhD in Materials Science, Physics, or a related field is required. Some postdoctoral experience is highly desired. Applicants should send a resume, a statement of research interests, a short description of the candidate's teaching philosophy and the names and addresses of at least three references in a single PDF file to: Dr. Heinz Nakotte, Chair, Faculty Search – Neutron Scattering, Physics Department MSC, New Mexico State University, Las Cruces, NM 88003. Email: nmsulansce@nmsu.edu. Screening of the applicants will begin on 15 November 2012, but applications will be accepted until the position is filled.

2013 Conference for Undergraduate Women in Physics

The 2013 conferences will run Friday evening, January 18 through Sunday afternoon, January 20, 2013

- California Institute of Technology, Pasadena, CA
- [Colorado School of Mines, Golden, CO](#)
- [Cornell University, Ithaca, NY](#)
- University of Central Florida, Orlando, FL
- University of Illinois at Urbana-Champaign, Champaign, IL
- [University of Texas at Austin, Austin, TX](#)



The CUWiP goal is to help undergraduate women continue in physics by providing them with the opportunity to experience a professional conference, information about graduate school and professions in physics, and access to other women in physics of all ages with whom they can share experiences, advice, and ideas.

A typical program will include research talks by faculty, panel discussions about graduate school and careers in physics, presentations and discussions about women in physics, laboratory tours, student research talks, a student poster session, and several meals during which presenters and students interact with each other.

For more info see: <http://www.aps.org/programs/women/workshops/cuwip.cfm>

University of Michigan's President's Postdoctoral Fellowship Program



In 2011, the University of Michigan joined in a collaborative partnership with the University of California to offer postdoctoral fellowship opportunities at the University of Michigan. In this program, the University of Michigan offers postdoctoral research fellowships in science, technology, engineering, mathematics (STEM), economics, and political science, coupled with faculty mentoring, professional development, and academic networking opportunities. The University seeks applicants whose research, teaching, and service will contribute to diversity and equal opportunity in higher education. The program is particularly interested in scholars with the potential to bring to their research and undergraduate teaching the critical perspective that comes from their non-traditional educational background or understanding of the experiences of groups historically underrepresented in higher education.

Information: On-line applications due to joint University of California-University of Michigan application system by November 1, 2012. Letters of support from up to two University of Michigan tenured/tenure-track faculty mentors and up to two references due by December 3, 2012. Letters of support from University of Michigan department chair/director/dean due by December 1, 2012.

Physics Specialist, Science and Math Learning Center - James Madison University

James Madison University seeks applications for the position of Physics Specialist in the Science & Math Learning Center (SMLC), beginning August 2013. The position is a full-time, renewable-term faculty appointment, with affiliate status in the Department of Physics & Astronomy. We seek outstanding candidates with an M.S. or Ph.D. in Physics, Physics Education, or a closely related field. The successful candidate must be knowledgeable about physics pedagogy and/or physics education research and demonstrate a record of excellent teaching, preferably with tutoring experience. To apply, please visit <https://joblink.jmu.edu/> and reference posting 0404908. In addition to completing the online faculty profile, candidates must provide *via* Joblink a cover letter; the names, addresses, and telephone numbers of three references; and a statement describing how they can contribute to the development of physics education best practices and its integration with the SMLC support model. The cover letter should, in addition to reviewing qualifications, explain why the candidate is a good fit for the SMLC and the Physics & Astronomy Department at JMU. Review of applications will begin on November 12, 2012. Applications will be accepted until the position is filled. Questions should be addressed to Dr. Mary Tam, Science Coordinator, tammc@jmu.edu.



Postdoctoral Fellow in Coherent Phonon Generation and Detection by Ultrashort Light Pulses

The Laboratory for Ultrafast Spectroscopy @ Physics Department, University of Rome "Sapienza", is looking for a postdoctoral fellow. Building on a Ti:Sa regeneratively amplified laser source, we developed a novel pump probe layout for generation and narrow band probing of optic and acoustic-like dynamics in crystalline and amorphous materials in the range 40-400 GHz. Further details can be found in this recent paper:

http://femtoscopia.phys.uniroma1.it/scopigno/static/RES_ACT/my_papers/APL_98_011901.pdf. Initial appointment is for 1 year with possible extension upon mutual consent. Candidates with experimental background in phonon dynamics in disordered and/or correlated systems are encouraged to apply. Previous hands on experience with ultrafast time-resolved optical techniques and/or phonon spectroscopies (Brillouin and Raman scattering, Inelastic X-ray and Neutron Scattering) is highly appreciated. Excellent communication skills and team spirit are required. Successful applicant is expected to prepare and carry out experiments together with our team. Carry out own research in the area of high frequency dynamics in amorphous materials and/or correlated systems. For an overview of our current research see:

<http://femtoscopia.phys.uniroma1.it/scopigno/index.php/Research-Topics/>. Applications (including CV, list of publications and coordinates of at least three referees) should be addressed by email to: Tullio Scopigno, tullio.scopigno@roma1.infn.it (phone +39 06 4991 3314)



Postdoctoral Fellow in Ultrafast spectroscopy in biomolecules

The Laboratory for Ultrafast Spectroscopy @ Physics Department, University of Rome "Sapienza", is looking for a postdoctoral fellow.

A Femtosecond Stimulated Raman Scattering setup optimized to exploit resonances in the range 320-520nm is available. It allows for pump-probe vibrational spectroscopy with time resolution of ~40fs and energy resolution of ~10cm⁻¹. Combined with our sub-picosecond transient absorption setup is an ideal tool to address the dynamics of intermediates involved in chemical reactions induced by an ultrafast optical trigger in biomolecules. Further details can be found in: http://femtoscopia.phys.uniroma1.it/scopigno/static/RES_ACT/my_papers/OPEX_19_1107.pdf Initial appointment is for 1 year with possible extension upon mutual consent. Candidates with hands on background in linear and non-linear optics, are encouraged to apply. Previous experience with ultrafast lasers and/or resonance Raman spectroscopy and/or transient absorption and/or biochemistry of heme-proteins are highly appreciated. Excellent communication skills and team spirit are required. Prepare and carry out FSRs experiments together with our team. Develop own research in the area of sub picosecond structural dynamics. For an overview of our current research see: <http://femtoscopia.phys.uniroma1.it/scopigno/index.php/Research-Topics/>. Applications (including CV, list of publications and coordinates of at least three referees) should be addressed by email to: Tullio Scopigno, tullio.scopigno@roma1.infn.it (phone +39 06 4991 3314).

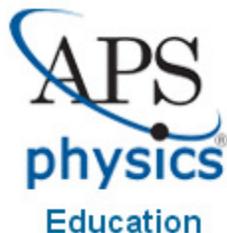


Aspen 2013 Winter and Summer Programs

Attached are 8 posters listing the 2013 Winter and Summer Programs. These workshops are for all physicists from postdocs to nobel laureates. Applications for the winter conferences are due by October 15 to November 30, depending on the conference. Summer applications are due by January 31, 2013 and are available on our website, www.aspenphys.org. Contact: Paula Johnson, Aspen Center for Physics, 970-925-2585.



Education Programs Manager for APS



The American Physical Society (APS) www.aps.org, the premier membership association for physicists, seeks a dynamic and personable science education professional to fill the position of Education Programs Manager based at APS Headquarters in College Park, MD (near DC Metro Green Line). Reporting to the Society's Associate Director of Education and Diversity, this position will help lead efforts to improve education and diversity throughout the physics community, including the Physics Teacher Education Coalition (PhysTEC) project.

Responsibilities include:

develop, implement, and evaluate national programs that increase diversity and improve physics education; organize and conduct the PhysTEC annual conference, and other meetings on teacher education; develop and implement programs for PhysTEC Member Institutions; serve as a member of the PhysTEC project management team; develop and facilitate education conferences on topics of critical interest to the physics community, such as building thriving undergraduate programs, distance learning, and graduate education; author reports on emerging topics of interest; where appropriate, seek external funding to expand education and diversity activities for APS members and the broader physics community; serve as staff liaison to APS committees and other leadership groups; travel to national and regional meetings to represent department activities. PhD in physics, physics education or equivalent experience required. Experience with high school physics teaching or teacher education is desirable. Excellent written and verbal communication skills are necessary. Must be able to work independently, take initiative, and work effectively as part of a team. To apply, send cover letter with salary requirement, resume, and a list of professional references to the attention of the Director of Human Resources via e-mail: personnel@aps.org or fax: 301-699-8144. EOE M/F/D/V

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>.