

The Hispanic Physicist

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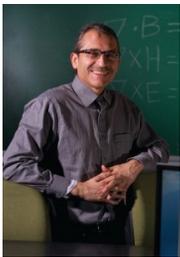
NSHP Hosts First Cosmic Cafe at SACNAS

The National Society of Hispanic Physicists will be hosting the first ever SACNAS Science Cafe in Seattle this year. Science Cafes are a way for the public to learn about the exciting frontiers of science, not from a lecture but in informal chats over coffee or tea. In the Cosmic Cafe we will draw on the NOVA series "The Fabric of the Cosmos" based on the book by Brian Greene to learn about the fundamental nature of space, time, ... of what the universe is made of ... and how it may one day - end. The Cosmic Cafe is scheduled for Saturday, October 13 at 1:30 p.m. Make plans now to attend. Anyone and everyone at SACNAS is welcome and are encouraged to come in.



NSHP is looking for facilitators to help with program. Students, grad students, post-docs and faculty may participate. Contact Juan Burciaga (jburciag@mtholyoke.edu) for more information.

NSHP's Treasurer Jesus Pando receives 2012 Excellence in Teaching Award



Dr. Jesús Pando, Associate Professor and Chair of DePaul University's Department of Physics (Chicago, Illinois), and NSHP Treasurer, was awarded the 2012 Excellence in Teaching Award by the University's Quality of Instruction Council this spring. Dr. Pando earned his PhD in physics in 1997 from the University of Arizona, and has been on the DePaul faculty since 2001

Warmest congratulations Jesus!

Opportunity to fulfill Broader Impact commitments promoting your work to minorities

Researchers who are looking to promote their work to Spanish- and/or English-speaking audiences to fulfill their E/PO grants, or who are looking for partners for E/PO grant development, can contact the public outreach arm of The University of Texas at Austin McDonald Observatory. The group produces the Spanish-language Universo podcasts (radiouniverso.org) and the daily English-language StarDate radio program (stardate.org). It also has produced web sites, printed publications, and social media programs. The Universo/StarDate team has worked with scientists around the country to develop E/PO programs that present the research process and scientific results to diverse audiences. For information, contact writer/producer Damond Benningfield (damonddb@aol.com) or executive producer Sandra Preston (sandi@astro.as.utexas.edu).



Assistant Professor Tenure-track position at the The Department of Physics at DePaul University

The Department of Physics at DePaul University invites applications for a tenure-track position in Physics at the Assistant Professor level, starting Fall 2013. The candidate should have a Ph.D. in physics or a closely related field. We are seeking a faculty member who will teach a broad range of courses using research-based methods and who is capable of establishing a research program that will involve both undergraduate and terminal Masters graduate students.

Located in the heart of Chicago, DePaul University is the ninth largest private university in the country. DePaul is committed to an educational experience that weaves together mind, place, people and heart. The department offers an

undergraduate degree in physics, a Master's degree in physics, and a wide range of undergraduate courses for non-science majors. The successful candidate will be responsible for teaching and developing courses in all three of these areas, and must be willing and able to teach courses in appropriate interdisciplinary programs, such as the university's first-year program. The standard teaching load in the department is two courses per quarter.

The area of specialization is open, including physics education research. Start-up funds appropriate for an undergraduate teaching institution are available. Candidates should submit (1) a cover letter, (2) curriculum vitae, (3) a research plan that includes a description of how undergraduate and Masters students will participate and an estimated startup budget, (4) a teaching statement describing your experience and how you will implement research-based teaching methods across a range of courses, and (5) names and contact information for three references. References for candidates short-listed will be contacted to upload a confidential letter of recommendation. Applications are accepted only online at <http://facultyopportunities.depaul.edu/applicants/Central?quickFind=50982> The application deadline is November 1st 2012. DePaul University is an equal opportunity institution encouraging excellence through diversity. Women and members of minority groups are particularly encouraged to apply.

Registration Now Open for the 2013 Conferences for Undergraduate Women in Physics

Conferences for Undergraduate Women in Physics (CUWiP) are three-day regional conferences for undergraduate physics majors. The 2013 conferences will run Friday evening, January 18 through Sunday afternoon, January 20, 2013. For 2013, there will be six regional conferences; students are encouraged to apply to the nearest conference. Students must apply by November 15, 2012 for consideration. Visit this site for more info: aps.org/link/cuwip



2012 West Texas STEM Undergraduate Research Conference

October 5 - 6, 2012, Midland College, Midland, Texas

Please join us! For more information, registration and hotel information go to the site shown below. http://www.midland.edu/upcoming_events/stem/index.php

Due to the high activity of the oil & gas industry in the Permian Basin, it is strongly suggested that participants make hotel reservations ASAP.

Postdoctoral positions in cosmology - experiment and/or analysis

Applications are invited for Postdoctoral Scholars to pursue experimental and/or analytical cosmology research at Cornell University. The successful applicant(s) will collaborate with Michael Niemack (with opportunities for collaboration with other faculty) on research related to measurements of the cosmic microwave background (CMB) or combining CMB data with other cosmological data sets. Opportunities exist to help deploy, acquire, and analyze data from current observatories as well as to design, develop, and test superconducting and optical technologies and analytical tools for next generation observatories.

In 2013 we will complete the deployment of ACTPol -- the first polarimeter for the 6 meter Atacama Cosmology Telescope, located at 17,000 feet elevation in northern Chile -- which will measure the CMB polarization with unprecedented sensitivity on arcminute angular scales and will overlap with a wealth of astronomical observations that can be used for cross-correlations (including the SDSS III Baryon Oscillation Spectroscopic Survey and CFHT surveys). In addition to analyzing these data with collaborating institutions, there will be opportunities to propose and pursue independent research and to collaborate with other Cornell faculty, such as Rachel Bean, Liam McAllister, Ira Wasserman, and Gordon Stacey.

We are also developing designs, instrumentation, and technologies for next generation CMB surveys, which will be used to search for the signature of primordial gravity waves from inflation and to map the high-redshift dark matter distribution, as well as the CCAT project -- a 25 meter telescope for sub-millimeter and millimeter wavelength

observations. Examples of experimental work that could be pursued include: characterization of the ACTPol instrument; optics design; optical properties of materials and coatings; mechanical, electrical, and cryogenics engineering; development and testing of superconducting transition edge-sensors, superconducting quantum interference devices (SQUIDs), and superconducting microwave resonators; and microfabrication research at the Cornell Nanoscale Facility.

The initial appointment is for one year, renewable for up to three years total, contingent upon availability of funds and employee performance. The appointment could start as early as January 1, 2013. Applicants must have a Ph.D. in observational cosmology/astrophysics, physics, applied physics, or a related field. Applications should be submitted to Cornell Laboratory for Accelerator-based Sciences and Education (CLASSE) at

<http://academicjobsonline.org/ajo/jobs/1735> and include a cover letter, a CV with publications, and a detailed summary of research experience and interests. Applicants must arrange to have at least three letters of recommendation uploaded, as per instructions on the academicjobsonline website. To ensure full consideration, all materials should be received by October 31, 2012; however, applications will be accepted until the position(s) are filled. For more information about the position(s), contact Prof. Michael Niemack at niemack@cornell.edu. Cornell is an equal-opportunity, affirmative action educator and employer.

Assistant Professor Position in the Division of Physical Sciences - University of California, San Diego

THE DIVISION OF PHYSICAL SCIENCES at the University of California, San Diego invites applications for up to two tenure-track faculty positions in a research area of interest to any of the departments: CHEMISTRY & BIOCHEMISTRY, MATHEMATICS, AND PHYSICS (<http://physicalsciences.ucsd.edu/about/index.html>).

QUALIFICATIONS: Successful candidates must have a Ph.D. in the relevant discipline and demonstrated potential for a recognized program of excellence in both teaching and research. Preferred candidates will have the potential for leadership in areas contributing to diversity, equity, and inclusion and will have a desire to play a future role in helping to shape and expand the University's diversity initiatives (<http://diversity.ucsd.edu/>). We especially welcome candidates who have experience with and wish to contribute to programs that increase the access to mathematics and the sciences for underrepresented students and faculty and their success in these fields. Salary is commensurate with qualifications and based on University of California pay scales.

DEADLINE: Review of applications will commence on 11/1/2012, and will continue until the position is filled.

Candidates for positions in CHEMISTRY & BIOCHEMISTRY or PHYSICS should submit online a curriculum vitae with a list of publications. A research statement to include a summary of research plans, teaching statement, and a separate statement that addresses past and/or potential contributions to diversity, equity and inclusion should be included in the application materials (see <http://facultyequity.ucsd.edu/Faculty-Applicant-C2D-Info.asp>). Applications should be submitted to <https://apol-recruit.ucsd.edu/apply/JPF00225>. Candidates should also provide names and full contact information for three persons to submit letters of reference addressing the qualifications of the candidate.

Candidates for positions in MATHEMATICS should submit applications online through <https://www.mathjobs.org/jobs/jobs/3855>. Include 3 reference letters (writers should upload their reference letter to <http://www.mathjobs.org> and at least one letter should address teaching experience in some depth), curriculum vitae with a list of publications, research statement to include a summary of research plans, teaching statement, and a separate statement that addresses past and/or potential contributions to diversity, equity and inclusion (see <http://facultyequity.ucsd.edu/Faculty-Applicant-C2D-Info.asp>).

Faculty positions at Stanford University in Applied Physics, Biology, Chemistry, or Physics—joint with SLAC

We invite applications for faculty positions at Stanford University in one or more of the following departments—Applied Physics, Biology, Chemistry, and Physics—joint with the Photon Sciences at SLAC National Accelerator Laboratory. The positions cover the areas of science related to the use of the world's first x-ray free electron laser, the [Linac Coherent Light Source \(LCLS\)](#).

Applicants should at minimum hold an earned doctorate in a core science or engineering discipline and should have outstanding potential for establishing an independent research program. A senior level appointment is possible for exceptionally well-qualified candidates who have established an outstanding independent research program.

The individual should have a broad scientific vision for scientific applications in his/her field— either experimental or theoretical—that will capitalize on the unique x-ray capabilities of the LCLS. For example, this unique experimental facility provides new opportunities in the study of matter on the atomic length scale and the intrinsic femtosecond time scale of atomic and electronic motion and enables single shot imaging of bio-molecular assemblies and studies of transient states of matter.

Applications must be submitted to Academic Jobs Online (<http://academicjobsonline.org/ajo/jobs/1720>). Applicants should upload a cover letter, a summary of his/her educational and professional background, a current list of published work, and names of 3 references with addresses. In addition, applicants should upload a brief description of how his/her experience matches the position, and of plans for future teaching and research in the Stanford/SLAC setting. For inquiries, contact Amy Rutherford (SLAC Faculty Affairs Office) at amyr@slac.stanford.edu. The first appointment is expected to be made during 2013. Review of applications will begin in October, 2012; applicants are strongly urged to submit applications prior to this date. The positions will remain open until filled.

Stanford University is an equal opportunity employer and is committed to increasing the diversity of its faculty. It welcomes nominations of, and applications from, women and members of underrepresented groups, as well as others who would bring added dimensions to the University's research and teaching missions.

Faculty Position in Condensed Matter Experiment, The University of Maryland

The Department of Physics at the University of Maryland invites applications for a tenure-track faculty position in Experimental Condensed Matter Physics at the level of Assistant Professor, with a preferred starting date of August, 2013. A more senior-level position may be considered for exceptionally well-qualified individuals.

In addition to a Ph.D. in Physics (or a physics-related discipline), the successful candidate will have a demonstrated ability to conduct highly effective independent research, strong communication skills, potential for leadership within the condensed matter community, and capacity for teaching excellence. We expect that the successful candidate will complement the existing experimental and theoretical strengths in the department, as detailed on the Center for Nanophysics and Advanced Materials (CNAM) website: <http://cnam.umd.edu/>. Truly exceptional candidates in any research area and at any rank may also be considered.

TO APPLY: Only applications submitted through the UMD online site will be considered:

<https://jobs.umd.edu/applicants/Central?quickFind=57530>. A completed application requires (1) a cover letter, (2) CV, (3) statement of research interests and plans, (4) statement of teaching philosophy and (5) the names and email addresses of four reference writers. For full consideration, materials must be received by November 15, 2012.

The University of Maryland, College Park, actively subscribes to a policy of equal employment opportunity, and will not discriminate against any employee or applicant because of race, age, sex, color, sexual orientation, physical or mental disability, religion, ancestry or national origin, marital status, genetic information, political affiliation, or gender identity and expression. Minorities and women are encouraged to apply.

Zilker Distinguished Professor of Physics, Trinity University, San Antonio, Texas

Trinity University invites applications for the position of Zilker Distinguished Professor of Physics, to begin in August 2013. Candidates must have (1) a Ph.D. in Physics or a closely related field, (2) a current tenured position at the rank of Associate Professor or higher, and (3) a distinguished record of teaching and research.

The successful candidate will teach courses in physics (opportunities to teach in other disciplines may arise), and establish a program of forefront research that can include participation by highly motivated and capable undergraduates. Candidates doing experimental, theoretical, or computational research in any field of physics or astronomy are encouraged to apply. Numerous opportunities exist for interactions with the departments of Biology, Chemistry, Computer Science, Engineering Science, Geosciences, and Math.

The Department of Physics and Astronomy (<http://www.trinity.edu/physics>) currently has six faculty members, and attracts outstanding undergraduates into its program. Active research areas include astrophysics, experimental and computational biophysics, dynamics and pattern formation in soft matter and biological systems, gravitational-wave interferometry, nanomaterials/plasmonics, and quantum mechanics of few-body systems. The department's majors are among the most talented in the university, winning numerous Goldwater and NSF Graduate Fellowships, and many attend top-ranked graduate schools.

Trinity University (<http://www.trinity.edu>) is an independent, coeducational, selective, primarily undergraduate institution with high quality science, liberal arts, and pre-professional programs. Trinity is among the national leaders in percentage of graduates who earn doctorates in the sciences. Undergraduate enrollment is about 2500, with students from all areas of the U.S. and many foreign countries. The attractive campus overlooks downtown San Antonio, a large, vibrant city with many cultural opportunities.

Applicants must submit a curriculum vitae, and detailed statements of experience and interests in both teaching and research (including a description of opportunities for student research participation), and may submit other materials of their choice. Applicants must also arrange to have at least three letters of reference sent to the Search Committee. Inquiries may be addressed to Dr. David Hough (dough@trinity.edu). In order to receive full, first-review consideration, complete application materials and letters of reference should be received at the following address by October 15, 2012:

Chair of the Search Committee, Zilker Distinguished Professor of Physics, Department of Physics & Astronomy, Trinity University, One Trinity Place, San Antonio, TX 78212-7200

Berkeley Edge Conference 2012 for students interested in graduate school

What: Berkeley Edge Conference

When: October 25 - 27, 2012

Where: University of CA, Berkeley

Deadline: September 9, 2012 @ 11:59pm

The upcoming Berkeley Edge Conference 2012 offers a great opportunity for students interested in graduate school to meet University of California, Berkeley faculty, graduate students and staff. There is no cost to participate for all students who are selected by UC Berkeley to attend the conference.

The conference program includes workshops on preparing competitive applications for graduate admissions and national fellowships. Participants are also given tours of Cal's science and engineering departments and research facilities. A highly valued aspect of the conference is the pre-arranged individual and group meeting with UCB faculty and scientists from the national labs in each of the science and engineering fields of interest to the participants.

We look forward to receiving applications from promising students who are interested in doctoral studies at Berkeley. To recommend your students on-line and for more information, please visit our website: <http://ls.berkeley.edu/?q=about-college/l-s-divisions/mathematical-physical-sciences/diversity/bep/prospective-students/confer>

Two-year Full-time Postdoctoral Fellowship in Acoustics at Vassar College

The Department of Physics + Astronomy at Vassar College, in collaboration with the Consortium for Faculty Diversity (CFD) in Liberal Arts Colleges, invites applications for a two-year full-time postdoctoral fellowship in acoustics beginning late May 2013 through late August 2015.

The Fellow will teach the equivalent of three courses each academic year, participate in departmental activities, and interact regularly with students. Additionally, the Fellow will assist with an on-going, NSF-funded (Award Number: 1055268), acoustics research project during the academic year and summer months. Successful applicants must demonstrate expertise in one or more of the following areas: acoustic measurements, signal processing techniques, numerical simulations, computational modeling, and undergraduate teaching. Applicants should hold a Ph.D. in an acoustics-related field, and should have no more than five years of teaching or relevant experience before the time of appointment. Compensation will be commensurate with that of a full-time faculty member with comparable qualifications.

To apply, candidates should create an application through the CFD website:

www.gettysburg.edu/about/offices/provost/cfd/. The complete application will be shared with all Consortium member schools, including Vassar College. Outstanding applicants will be asked to submit a cover letter, C.V., graduate school transcripts, a teaching philosophy, and a statement of research experience.

For inquiries, please contact the CFD mentor for this fellowship, David T. Bradley, Ph.D., Department of Physics + Astronomy, at dabradley@vassar.edu. Applications will be considered immediately; for full consideration they should be received by **October 30, 2012**. Applicants should e-mail the CFD mentor to alert them to a submitted application

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>.