

# The Hispanic Physicist

The Newsletter of the National Society of Hispanic Physicists

Year 17

Jan. 14, 2014

## The Hispanic Physicist Radio Education Project Begins

"The Hispanic Physics Radio Education Project" is a project funded by the American Physical



HISPANIC PHYSICISTS  
PROFILING OUTSTANDING RESEARCHERS

Society to introduce Hispanic physicists to the general public through 2-minute radio capsules and longer interviews. The goal is to inspire newer generations of scientists by profiling outstanding researchers at all levels, from graduate school to professors emeriti, in all areas of research. The project was conceived by Ixtlan Communications and the National Society of Hispanic Physicists under the coordination of Arturo Vazquez (Ixtlan) and Jorge A. Lopez (NSHP Communication Officer) and the segments are to be aired through Ixtlan's network of radio associates in the USA and Mexico; educators will be given access to the interviews to be used freely in classrooms.

At present about 20 interviews have been recorded and the radio segments are still under production (expected release date is summer 2014), but the longer interviews are now being posted at

<http://www.visual-physics.org/Hispanic-Physicists/HP.html>

with web pages both in English and Spanish. The first researcher being profiled is Dr. Edgardo Browne Moreno from the Lawrence Berkeley Lab. As the project is still under construction, feedback is kindly requested.

## Introductory Physics for the Life Sciences Conference

Applications are now open to attend the NSF-supported *Introductory Physics for the Life Sciences Conference*, to be held March 14-16, 2014 at the Key Bridge Marriott, Arlington, VA. Information on the conference and a link to the online application can be found at

<http://www.aapt.org/Conferences/iplsc.cfm>

The upcoming revised MCAT is serving as a catalyst for rethinking how science courses for pre-health students are being taught. The conference will focus on what these revisions mean, how can physics courses better prepare students, and how we (physics faculty) can better understand the evolving needs of the life sciences.

Since meeting space is limited, please apply as soon as possible. There is no conference registration fee, but participants are expected to pay their own travel and hotel expenses (*A very limited amount of travel assistance is available. Check the conference page at the link above or contact the grant PI listed below for more information.*)

**Deadline for applications is January 15.**

Robert C. Hilborn, Associate Executive Officer, American Association of Physics Teachers, [rhilborn@aapt.org](mailto:rhilborn@aapt.org)

## Faculty Position in Photonics - Rochester Institute of Technology

The School of Physics and Astronomy at the Rochester Institute of Technology invites applications for a tenure-track faculty position in the area of theoretical or computational photonics to begin August 2014. The position is expected to be at the rank of assistant professor, however, candidates with experience and qualifications consistent with appointment at a higher rank are also strongly encouraged to apply. Candidates must have a Ph.D. in physics or closely related field, have postdoctoral experience, demonstrate a commitment to teaching excellence, show evidence of ongoing research excellence, and possess an ability to establish and maintain a theory/computation-based research program within the broad area of photonics. The position sets scholarship and teaching as coequal priorities; the successful applicant will be expected to produce peer-reviewed publications at a rate consistent with teaching load. Applicants must demonstrate a commitment to the educational mission of the School of Physics and Astronomy, including curricular development, have strong communication skills, and be capable of including both undergraduate

and graduate students in their research program. Applicants must be legally eligible to work in the United States beginning August 13, 2014.

Applications must be submitted online at <http://careers.rit.edu/faculty> (enter 827BR in the Requisition Number field). Submit all application materials as one PDF file that includes a cover letter, curriculum vitae, a statement of research goals, teaching statement, and a list of three current professional references. Within the cover letter, candidates must include a statement about their contributions to diversity ([please refer to the Contribution to Diversity Statement: A guide for RIT candidates](#)). Candidates should also arrange to have their three references send letters of support directly to Chair, Faculty Search Committee, School of Physics and Astronomy, Rochester Institute of Technology, 85 Lomb Memorial Drive, Rochester, NY 14623-5603. The reference letters, as well as any inquiries regarding the position, may also be sent electronically to [PhysSrch@rit.edu](mailto:PhysSrch@rit.edu).

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### **SPS Summer Internship in Washington DC -- Apply Now!**

***APPLICATION DEADLINE: February 1, 2014***

Consider spending your summer doing physics and living in downtown Washington, D.C. The Society of Physics Students Summer Internship program is one of the most unique opportunities for physics students around! Positions are available in a broad range of areas relevant to physics, including scientific research, science policy, physics history, science outreach and education. [Click here for information about this opportunity. Apply Now!](#)

### **SPS Scholarships Available**

***APPLICATION DEADLINE: February 17, 2014***

Applications are now being accepted for all [2014 SPS Scholarships](#). Several Society of Physics Students Leadership Scholarships are available ranging from \$2000-\$5000 and additional \$2000 awards are offered for undergraduates including future teachers, two-year college students, and female students. Be sure to give yourself enough time to complete the application process. [Details. Apply Now!](#)

Contact: Kendra Redmond, Manager of SPS and Sigma Pi Sigma Programs, American Institute of Physics, Education Division, One Physics Ellipse, College Park, MD 20740, [\(301\) 209-3047](tel:3012093047), [www.spsnational.org](http://www.spsnational.org)

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### **GRADUATE STUDENT SUPPORT for participation in 2014 APS April Meeting**

The DNP is pleased to offer a limited number of grants to encourage graduate student participation in the 2014 APS April Meeting to be held in Savannah, GA, 5-8 April. The APS April Meeting provides an excellent opportunity for students to present their research, to hear about advances in a broad range of physics topics, and to meet potential employers. To promote graduate student participation, the DNP will offer a limited number of awards consisting of \$400 -- based on merit and need. In order to be eligible students must have submitted an abstract (deadline 10 January) and plan to present a talk at the April meeting, and complete the application process by **Monday, 27 January**, including having their research advisor submit a statement of support. For more information and to apply please visit the DNP web site <http://dnp.aps.org>

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### **The University at Albany - Bridge to the Doctorate Fellowship**

The University at Albany was recently awarded the Bridge to the Doctorate Fellowship grant, funded by NSF. We are now actively recruiting nine talented Fellows for this prestigious award for the 2014-15 academic year. The criteria for and benefits of being a Bridge to Doctorate Fellow are: have participated in an LSAMP Program (or similar programs such as McNair, CSTEP, AGEP - see application), have obtained a Bachelors in a STEM Discipline, be a U.S. Citizen or Permanent Resident, have a 3.0 or higher GPA, plan to matriculate into a STEM masters or doctoral degree program at the University at Albany

**Benefits:** A two year fellowship of \$30,000 annually, full tuition, fees and health insurance, support services and faculty/professional mentoring, opportunities to attend academic and professional workshops.

**Contact:** Kevin Williams, Graduate Dean ([kwilliams@albany.edu](mailto:kwilliams@albany.edu)) or Betty P. Shadrick ([bshadrick@albany.edu](mailto:bshadrick@albany.edu)) for any questions that you have, and visit our website: <http://www.albany.edu/graduate/bridge-to-the-doctorate.php> for more in-depth information and the Bridge to the Doctorate application

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### 2014 Nebraska Summer Research Program

Nebraska's summer program offers research opportunities in the science, technology, engineering, and mathematics fields in addition to a new interdisciplinary Minority Health Disparities program doing research in and around the social sciences. A complete listing of faculty mentors and research project descriptions can be found on our website at <http://www.unl.edu/summerprogram>. Students can also find information about program benefits including a competitive stipend, room and board, travel expenses, and more.

Summer 2014 programs include: Algal Biofuels and Nanohybrid Materials , Applied Mathematics, Bioenergy Systems, Biomedical Engineering, Chemistry, Minority Health Disparities, Redox Biology, Virology, Water in the Earth System.

During the Nebraska Summer Research Program, students receive first-hand exposure to research and the experience of graduate school. They work closely with faculty mentors and research teams of graduate students and other summer scholars. Students also have opportunities to participate in meaningful social and professional development activities outside of the laboratory. Our online application makes it easy for students to apply. Priority review begins Friday, February 1 and all applications must be completed by Monday, Feb. 17. Students historically underrepresented in graduate education and students from academic institutions where research programs are limited are especially encouraged to apply. Contact: Maggie Jobs, Summer Research Program Director, [graduate@unl.edu](mailto:graduate@unl.edu).

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### Postdoctoral Associate - Cornell Laboratory for Accelerator-based Sciences and Education

The Cornell Laboratory for Accelerator-based Sciences and Education (CLASSE) invites applications for a Postdoctoral Associate position with its effort on Fermilab E989, the Muon g-2 experiment. The Cornell group plays significant roles in the development of both the detector and the muon storage ring beam instrumentation. Hardware responsibilities range from for development of a new, fast injection kicker, which is required to store the muon beam, to the development of the electromagnetic calorimeter electronics for detecting decay electrons. The Cornell group also plays a leading role in a broad range of simulation and analysis efforts covering muon beam dynamics, detector performance, and the spin precession analysis. The successful applicant will assume key responsibilities in the electronics design and construction projects, as well as in the development of reconstruction and analysis techniques for the determination of g-2, and in the commissioning / analysis activities of the experiment. To maintain continuity of effort, the postdoc position will ideally begin late Spring or early Summer, 2014.

Applicants must have a PhD in experimental high energy, nuclear or accelerator physics. Applications should be submitted at <https://academicjobsonline.org/ajo/jobs/3676> and should include a CV, a list of publications, a statement of research interests, and three letters of recommendation. All materials, including all letters of recommendation, must be received by January 31, 2014. For information about the position, contact Prof. Lawrence Gibbons at [lawrence.gibbons@cornell.edu](mailto:lawrence.gibbons@cornell.edu). Cornell University is an equal-opportunity/affirmative action employer.

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### Mickey Leland Energy Fellowship Program

The Mickey Leland Energy Fellowship (MLEF) Program, sponsored by the Office of Fossil Energy (FE), U.S. Department of Energy, is now accepting applications for a 10-week summer internship. MLEF's mission is to improve opportunities for women and minority students majoring in Science, Technology, Engineering and Mathematics (STEM) disciplines, but all eligible candidates are encouraged to apply. The program allows students to apply their academic achievements to actual research while gaining hands-on experience.

Selected MLEF Fellows will receive a bi-weekly stipend, approved travel costs to/from their host site and will attend a Technical Forum to present their project at the end of the internship. **Eligibility** . To qualify for the program, students must be at least 18 years of age, be a U.S. Citizen, have a cumulative GPA of 3.0 or higher, be currently enrolled full-time in an accredited college or university (sophomore year or higher). For more information or to complete an application, visit <http://orise.orau.gov/mlf>. Application period closes January 15, 2014.

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### Yale CRISP REU

Excellent summer research opportunity for undergraduates: Yale CRISP REU program with fellowships (residential and non-residential) at Yale University in New Haven, CT for the summer of 2014.

The deadline for applications is **February 1, 2014**. Please post and/or forward to the appropriate individual(s) in your Department and/or Institution. The application information can be found at: <http://www.crisp.yale.edu/index.php/Reu>

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### 2014 REU – Dept. of Astronomy, Cornell University

The Department of Astronomy of Cornell University is pleased to announce its summer undergraduate research program. Students will work on individual research projects with Cornell faculty and research staff on a wide range of topics in planetary science, astronomical instrumentation, astrophysics, general relativity and cosmology. Students interested in computer science and engineering are also encouraged to apply.

The Research Assistantships, which include a stipend of \$6,400 and relocation funds up to \$1,000, are for a flexible ten-week period in the summer. First-, second-, or third-year undergraduates who are US citizens or permanent residents may apply. Students must have completed at least one year of undergraduate academic training by June 2014. Eight Research Assistantships will be available. Completed applications AND supporting materials must be received by **February 7, 2014**. Information: <http://astro.cornell.edu/specialprograms/reu/index.html>, [pf46@cornell.edu](mailto:pf46@cornell.edu), (607) 255-0288

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