

Subject: NSHP News - Feb. 13, 2008

The Hispanic Physicist

**A news service of the National Society of Hispanic Physicists
Please send news, letters, congratulations, announcements, or
communications to**

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<http://hispanicphysicists.org>.**

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1. 2008 Joint Annual Conference of the NSBP and NSHP

Registration is open for Physics Diversity Summit and 2008 Joint Annual Conference of the National Society of Black Physicists and the National Society of Hispanic Physicists. The summit begins on February 20th 2008 in the Cannon Caucus Room of the Cannon House Office Building on Capitol Hill in Washington, DC. The Physics Diversity Summit is intended to bring together key stakeholders in the US physics enterprise and consider some of the policy issues impacting the drive to bring about a diverse physics workforce. The intended outcome is the building of a coalition of university, corporate, government and professional society partners to advocate for effective policies, programs and practices to achieve a diverse physics workforce.

The NSBP/NSHP February 20- 24th 2008 begins on the same day at the Omni Shoreham Hotel. It brings together over 500 African American and Hispanic

American physics students and professionals. In addition to the Physics Diversity Summit, the conference program includes a cutting-edge scientific program, a student professional development program that includes mentor-protégé match-making, and a recruiting fair. The full schedule and program information please visit the NSBP website

Abstracts for oral and poster presentations can also be submitted at the NSBP website. For more information please view the information at the link below and indicate your interest at the bottom of page. Hope to see in in Washington in February.

Quinton L. Williams, President, National Society of Black Physicists

Sergio Ulloa, President, National Society of Hispanic Physicists

2. High-Energy Theory Postdoctoral Position, University of California, Riverside

The Department of Physics and Astronomy invites applications for a postdoctoral position in high-energy theory. The appointment is for one year and renewable for a maximum of 3 years. The appointment level will be commensurate with seniority and experience. Applicants should submit a CV including a statement of research interest, and arrange for 3 reference letters to be mailed to:

Luci Pacocha, Department of Physics and Astronomy, University of California, Riverside, Riverside, CA 92521-0413, USA

3. The Center for Nanotechnology (CNT) Summer Research Projects in Nanotechnology

The National Nanotechnology Infrastructure Network (NNIN) at the UW sponsors 10-week long, summer research projects in nanotechnology for undergraduates across the nation. All participants gather for a national research convocation, where they present their summer work. http://www.nnin.org/nnin_undergraduates.html

4. Postdoctoral Position at Georgetown University Condensed Matter Theory

We invite applications for a postdoctoral position in condensed matter theory at Georgetown University beginning in the Fall of 2008 (flexible until January 2009). The general area is strongly correlated systems in condensed matter and ultracold quantum gases. Possible topics include equilibrium and out-of-equilibrium phenomena in ultracold gases trapped in optical lattices, effects of frustration and disorder in condensed matter systems, and metal-insulator transition in inhomogeneous systems. We are particularly interested in candidates with computational and many-body physics experience.

Candidates should forward a cover letter, CV, and other supporting material, plus arrange to have three letters of reference emailed to rigolpostdoc08@physics.georgetown.edu, by February 29. Screening of applicants will begin immediately, and continue until the position is filled. Additional information about my research can be found at <http://physics.ucsc.edu/~marcos>

Dr. Marcos Rigol Madrazo, Department of Physics, University of California, Santa Cruz, 1156 High Street, Santa Cruz, CA 95064, USA

5. Activity Based Physics Faculty Institutes

Are you interested in increasing your students' understanding of the physical world? 2-year college, 4-year college and university faculty are invited to attend one of the two NSF-sponsored Activity Based Physics Faculty Institutes to be held at Dickinson College during June 2008. These one week institutes will encourage faculty to use active learning strategies and computer-based tools and curricula--based on physics education research--in their introductory physics courses by 1) giving them hands-on experience with the materials in the Activity Based Physics Suite, 2) assisting them with modifying those materials for use in their own courses, and 3) providing continued follow-up support for the remaining year of this project. The institutes will be taught by Priscilla Laws (Dickinson College) and Patrick Cooney (Millersville University). Faculty from doctoral/research universities and from institutions that serve under-prepared and under-represented populations are especially encouraged to apply. Expenses on campus will be paid, and travel grants are available for those who demonstrate need. For more information and an application, please visit our web site: <http://www.uoregon.edu/~sokoloff/abpi.htm>

6. Physics – Imaging Faculty Position, Rochester Institute of Technology

The Department of Physics and the Chester F. Carlson Center for Imaging Science (CIS) at the Rochester Institute of Technology invite applications for a tenure-track faculty position beginning late August 2008. We are seeking individuals who are committed to contributing to RIT's core values, honor code, and statement of diversity. The position is a shared appointment between Physics and CIS. Candidates must have a Ph.D. in physics or a closely related field, show a commitment to teaching excellence at the undergraduate and graduate levels, and demonstrate an ability to establish and pursue an active program of high-quality research involving both graduate and undergraduate students. We desire candidates with research expertise in a field of physics that critically relies on one or more novel imaging techniques in areas including, but not limited to, optics, biophysics/biomedical imaging, nanoscale and molecular imaging/microscopy, and the development of nanoscale

materials for imaging.

The Rochester Institute of Technology is a privately endowed, coeducational university with an enrollment of close to 16,000 students. Together, the Department of Physics and the Center for Imaging Science consist of approximately 50 faculty, 30 research staff and postdocs, and 240 physics and imaging science students. The BS degree is offered in both Physics and Imaging Science, and CIS offers the M.S. and Ph.D. degrees in Imaging Science and Color Science.

Applications should be submitted online at <https://mycareer.rit.edu> (search for IRC# 15233). Please provide application materials submitted as one PDF file that includes a curriculum vita, a description of research goals, a teaching statement, and a list of three professional references. The closing date for the screening of applicants is March 1, 2008. Descriptions of the RIT Department of Physics and the Center for Imaging Science can be found at <http://www.rit.edu/~physics/> and <http://www.cis.rit.edu/>. Inquiries regarding the position should be directed to Dr. M. Kotlarchyk, Search Committee Chair, at physicsCISsearch@mail.rit.edu.

The Rochester Institute of Technology is an equal opportunity/affirmative action employer. Members of protected classes and individuals with the ability to contribute in meaningful ways to the university's continuing commitment to cultural diversity, pluralism, and individual differences are encouraged to apply.

7. Mentoring Program for Minority Students

The National Science Foundation-supported "Empowering Leadership: Computing Scholars of Tomorrow" Alliance (EL Alliance) has launched its online mentoring program designed to connect undergraduate and graduate minority students from research universities across the country with national leaders in the computing fields. Protégés and mentors are encouraged to sign up at <http://www.empoweringleadership.org>. Protégés and mentors are matched based on the protégés' preferences as well as on the experience and qualities of a mentor. Mentors share knowledge and lend encouragement to their protégés, help them meet others in the computing community, and guide them to opportunities for personal and professional growth, such as scholarships, internships, and conference opportunities. The Internet-based mentoring program provides protégés and mentors with an accessible, supported environment to stay in touch and discuss issues of interest to the students, such as career options, coursework, opportunities for extracurricular experiences, and areas of concern. The EL Alliance, composed of dozens of leading universities, professional societies, laboratories, research centers, and corporations, also involves students in research opportunities, in-person meetings at national conferences and workshops, and support to keep the

students excited, motivated, and connected to a broader community as they pursue computing careers. Students are important contributors to the EL Alliance-their feedback on programs and input on their own experience and goals help guide EL Alliance activities. Minority scholars in computing disciplines at tier-one institutions are scattered so sparsely across the country that they may be the only one, or one of very few, minority students in their classes. Relevant and consequential support networks, critical to all students, often do not exist for minority students due to a lack of peers with whom they can identify, or role models, or minority leaders. The EL Alliance's national network of formal and informal resources, support, and encouragement, developed with the active involvement of students and national leaders, is a vital community for minority scholars and for the country. About the EL Alliance <http://www.empoweringleadership.org> The EL Alliance is led by Rice University, and engages underrepresented minority students in computing disciplines at majority institutions in a nationwide network. The network, composed of dozens of leading universities, professional societies, laboratories, research centers, and corporations, involves students in research opportunities, professional development, mentoring programs, and support. The EL Alliance, benefits from the leadership and vision of several of the nation's top universities, with the active engagement of dozens of diverse partners and a plan for ongoing evaluation and feedback, particularly from the students involved.

8. APS Scholarship Program for Minority Undergraduate Physics Majors

The American Physical Society is pleased to offer the APS Scholarship Program for Minority Undergraduate Physics Majors. The goal of the program is to encourage minority students to major in physics and graduate with physics degrees. The scholarship consists of \$2,000 for new students, and \$3,000 for renewal students. The hosting department receives \$500. In addition, students will be paired with professional physicists who will serve as mentors.

Any African American, Hispanic American, or Native American high school senior, college freshman or sophomore, who is a US citizen or permanent resident, and who is majoring or planning to major in physics, may apply.

We ask for your help in identifying and encouraging minority physics students to apply for this scholarship. If you have established relationships with any high schools, please also share this information with them. The postmark deadline for completed applications is February 1, 2008.

Applications and more information on this scholarship can be found at <http://www.aps.org/programs/minorities/honors/scholarship/index.cfm>. For questions, please contact me using the information below.

P.S. Please forward this email to your colleagues and/or students

9. Assistant/Associate Professor (Tenure-track) / Observational Astrophysics, Norfolk State University

The Department of Physics at Norfolk State University invites applications for a tenure-track position in observational astrophysics at the assistant/associate professor level that could begin as early as Fall 2007. The successful candidate should be able to conduct an active research program and procure external funds. Our observational program includes the use of the newly constructed NSU's Rapid Response Robotic Telescope (RRRT) at the Fan Mountain Observatory, VA and the development of astronomical instrumentation. The candidate responsibilities will also include teaching undergraduate courses in astronomy and/or physics; supervise student research activities at the undergraduate level and participate in service related activities. The candidate will be expected to participate in our current research activities centered in the photometric and polarimetric study of compact objects, and in special, Gamma-ray Bursts (GRB) optical afterglows and Blazars using the 24" RRRT.

Qualifications: To receive consideration, candidates should have a Ph. D. in Astronomy or Physics; research experience in observational optical astronomy and effective communication skills in both classroom and laboratory settings. Preferred qualifications include: teaching experience at the college level that may include typical graduate student level teaching experience; interest in optical instrumentation and interest in teaching department's intermediate and introductory level astronomy courses.

SALARY/RANK: Commensurate with qualifications and experience.

APPLICATION PROCEDURE: Review of applications will begin immediately and will continue until position is filled. Candidates should send a letter of interest, current curriculum vita, statement of teaching and philosophy, official transcripts, and the names, titles, and phone numbers of three references to: Milton Ferguson, Department Head, Department of Physics, Norfolk State University, 700 Park Avenue, Norfolk, VA 23504.

10. Faculty Position at Universidad Nacional de Colombia

La Facultad de Ciencias de la Universidad Nacional de Colombia invita al Concurso Docente "Excelencia Académica 2007-II" se encuentran publicados en http://168.176.160.49:8082/ordinariospruebas/perfiles_sede_bogota_fac_ciencias.html

La Facultad requiere profesionales que ocupen 26 cargos docentes de dedicación exclusiva y 5 cargos de cátedra.

11. Program Manager for Computational and Theoretical Chemistry

The Office of Basic Energy Sciences (**Error! Hyperlink reference not valid.**), Office of Science, US Department of Energy, is seeking qualified applicants for a career federal position managing the Computational and Theoretical Chemistry Program, funding mission-oriented basic science at universities and national laboratories. The program encompasses a broad range of computational and theoretical approaches to scientific discovery in areas of interest to DOE. The research includes understanding and predicting the properties and chemical behavior of molecular systems and complexes in the gas phase, in solution, at interfaces, and in biological systems. It emphasizes development of new theories, methods and algorithms for applying theoretical and computational science and simulation to understanding chemical behavior and molecular properties in a wide range of environments, including new opportunities and challenges in complex systems, nanoscale materials, solar energy utilization, and ultrafast science. The program manager also assists in the allocation of computer resources at Office of Science high-performance computing facilities.

The announcement and on-line application instructions can be found via the BES website: **Error! Hyperlink reference not valid.** or directly at USA Jobs: **Error! Hyperlink reference not valid.** Applications must be submitted by 11 pm on April 21, 2008.

The Computational and Theoretical Chemistry Program spans the research programs of the BES Division of Chemical Sciences, Geosciences, and Biosciences Division, described at **Error! Hyperlink reference not valid.** ... For questions about this position and working at BES, please contact Michael Casassa, **Error! Hyperlink reference not valid.** or Eric Rohlfing, **Error! Hyperlink reference not valid.** ...

12. NYU Postdoctoral and Transition Program for Academic Diversity

The Program New York University (NYU) is dedicated to ensuring that its scholarly community is enriched by individuals, who, through their different races and ethnicities, nationalities, gender identities, age, abilities, political beliefs, spiritual beliefs, economic status, and sexual orientation, contribute to an intellectually challenging and inclusive educational environment. To that end, NYU has created the NYU Postdoctoral and Transition Program for Academic Diversity fellowship program to support promising scholars and

educators from different backgrounds, races, ethnic groups, and other diverse groups whose life experience, research experience, and employment background will contribute significantly to academic excellence at NYU.

Eligibility The fellowship program is open to all areas of study at the University.

Candidates from the following three categories may apply:

Doctoral students in the final year of their dissertation

Postdoctoral students who have completed their dissertation within the last three years

Professionals transitioning to academic careers (in fields for which the doctorate is not the terminal degree)

Awards NYU will award five in-residence fellowships in 2008. The two-year appointments, which have a possibility of a third-year extension, begin in September 2008. Fellows teach a maximum of one course per semester.

Stipends and Allowances Fellows receive an annual stipend of \$40,000 as well as allowances for housing (\$20,000), research (\$2,000), and one-time relocation (\$3,000). The University also provides a medical and dental benefits package.

Application Procedure Required application materials include (1) a fellowship application; (2) a curriculum vitae; (3) a statement of research and goals; (4) a personal statement detailing the reasons for applying for the fellowship; (5) three letters of reference from individuals familiar with your scholarly or creative work; (6) an official school transcript from the current or last institution attended; and (7) one of the following: a dissertation abstract (postdoctoral students), a dissertation proposal (doctoral applicants), or a statement of why you want to transition to academia and how your professional experience prepares you for a faculty position (professionals). Incomplete submissions will not be accepted.

All materials must be postmarked by March 3, 2008. Awards will be announced in April 2008.

The fellowship application and instructions for submission are available here. E-mail questions to ptpfellowship@nyu.edu.

13. New NSF Scholarship in Science, Technology, Engineering and Math

The Microelectronics-Photonics Program announces the new NSF Scholarship in Science, Technology, Engineering and Math (S-STEM)

◆ The NSF S-STEM program provides institutions with funds for student scholarships to encourage and enable academically talented but financially needy students to enter the workforce following completion of an associate, baccalaureate, or graduate degree in fields of science, technology, engineering, or mathematics.

◆ Students to be awarded scholarships must demonstrate academic talent and financial need. In addition, they must be US citizens, permanent residents, nationals, or refugees.

All scholarships are need based

- ◆ Priority given to applications received by February 1st
- ◆ Undergraduate Scholars
- ◆ Must have begun the application process for microEP minor
- ◆ \$7.5K scholarship available for the academic year
- ◆ \$2.5K scholarship available for the summer (must include 1-3 enrolled hours of research under a microEP faculty member)
- ◆ Graduate Scholars
- ◆ Must have begun the application process for microEP MS or PhD
- ◆ \$8K scholarship available for the academic year
- ◆ \$2K scholarship available for summer
- ◆ Tuition paid

Please contact Kassie Wilson at schstem@uark.edu or 575-3475 for more information

Please visit our website at: <http://microep.uark.edu>

14. Summer Space Telescope Science Institute

Each summer the Space Telescope Science Institute brings 15 to 20 students to Baltimore, Maryland, for our Summer Student Program (SSP). The SSP lasts ten weeks, from mid-June to mid-August. SSP students work with STScI researchers and staff one-on-one in projects ranging from astronomical research to science writing, software development, and preparation of scientific data for public release.

The SSP is oriented around upper division undergraduates, but we have had students from all academic levels and a broad variety of backgrounds. There are no restrictions on who may apply, and the SSP is open to foreign students.

Complete information may be found at:

<http://www.stsci.edu/institute/sd/students>

Please note that the application deadline is February 20, 2008.

David Soderblom, Coordinator, Summer Student Program, Space Telescope Science Institute, Baltimore MD USA
drs@stsci.edu, 410-338-4543

15. University of Illinois at Urbana-Champaign REU

The University of Illinois at Urbana-Champaign is hosting an REU program this summer. Your students are welcome to apply. Would it be possible to post the description on the Hispanic Physicists website?

Toni Pitts, REU Coordinator, Department of Physics, 290Z Loomis Lab of Physics, MC-704, 1110 West Green Street, Urbana, Illinois 61801-3080, Fax 217.333.9819

16. Graduate Research Assistantships on Intraplate Earthquakes In China, University Of Missouri-Columbia

We seek several motivated graduate students to participate in a multidisciplinary research on intraplate earthquakes in China. Fields of research include seismotectonics, marine geophysics, tectonic geodesy, earthquake geology, and geodynamics. Funding from the National Science Foundation will provide competitive graduate research assistantships, opportunities to study in China, and full logistical support. For additional information, visit <http://pire.missouri.edu> or contact Professor Mian Liu (lium@missouri.edu). For more information about our department, visit <http://web.missouri.edu/~umcasgeolwww>. Applications will be considered through the spring. Columbia is a pleasant university town with a low cost of living and a vibrant social scene.

Jorge A. López
Chair and Shumaker professor
Physics Dept., UTEP
915-747-7528
<http://www.jorgelopez.utep.edu/jorgeptr/jorge.htm>