

Subject: 2nd time: NSHP News: Oct. 29, 2009

The Hispanic Physicist

**A news service of the National Society of Hispanic Physicists
Please send news, letters, congratulations, announcements, to
Dr. Jorge A. López, Physics Department, Univ. Texas at El Paso
(915) 747-7538, e-mail: jorgelopez@utep.edu
NSHP web site: <http://hispanicphysicists.org>.**

- 1. Department Chair, Department of Physics at The College of New Jersey**
- 2. NASA Postdoctoral Fellowships**
- 3. Postdoctoral or Research Associate (Photocathode Scientist), Cornell University Accelerator Lab**
- 4. Research Associate, CMS Experiment, Cornell University**
- 5. Faculty Position in Condensed Matter Theory, University of Maryland**
- 6. Faculty Position in Condensed Matter Theory, University of Maryland**
- 7. Post-doctoral Associate – In-situ Microscopy and Imaging of Protein Crystals, Cornell High-Energy Synchrotron Source**
8. APS Opportunity for Women Physicists for Feb. 12 Workshop
- 9. Biophysical Society Summer Course in Biophysics 2010 Scholarship Application Now Available!**
- 10. Faculty Position in Particle Astrophysics and Cosmology, Department of Physics, The Ohio State University**
11. Physical Scientist as Program Manager for Isotope Facilities in the Office of Nuclear Physics at the Department of Energy.
12. LIGO Student Fellowships Awarded to Pablo Daveloza of UT Brownsville
13. Jorge Muñoz and Jorge López Received the Texas Section – APS Hyer Award

1. Department Chair, Department of Physics at The College of New Jersey

The Department of Physics at The College of New Jersey (TCNJ) invites outstanding applicants for a tenure-track faculty position to serve as Department Chair, starting August 2010. Candidates at the advanced Assistant Professor, Associate Professor, and Professor ranks will be considered.

Teaching and research are mutually supportive activities at TCNJ. Candidates should be strongly committed to the teacher-scholar model in a primarily undergraduate, residential institution and to maintaining both high quality teaching and an active and productive research program involving highly motivated undergraduates. Faculty members also serve as academic advisors and have service responsibilities within the College.

A research laboratory and competitive start-up funds will be provided. The Physics Department is housed in a modern science complex (opened Fall 2002) that offers state-of-the-art teaching and research facilities and instrumentation. For more information about the department, visit:

<http://www.tcnj.edu/~physics/>

We seek a broadly trained physicist who also has the potential to establish a highly visible undergraduate research program and collaboratively contribute to interdisciplinary curricular and scholarly efforts within the School of Science and at the College. The specific research area is open, but physicists with experimental research programs are especially encouraged to apply. Requirements for the position include: (1) a Ph.D. in physics or closely related field, (2) a strong record as an accomplished teacher-scholar, including demonstrated success in the classroom/laboratory, in mentoring undergraduate research students, and in scholarly outcomes, (3) a record of relevant leadership experience, with a leadership style that is open, consultative, and collaborative, and (4) the ability to communicate effectively.

Founded in 1855, TCNJ is a highly selective institution that has earned national recognition for its commitment to excellence. Emphasizing a residential experience for its nearly 6,000 undergraduates, TCNJ is one of Barron's 75 "Most Competitive" American colleges, and U.S. News & World Report's No. 1 public institution of its kind in the northern region of the country. The College also offers focused graduate programs in Nursing, Education and English. TCNJ was awarded, in 2006, a Phi Beta Kappa chapter—an honor shared by less than 10 percent of colleges and universities nationally. A strong liberal arts core forms the foundation for programs offered through TCNJ's seven schools—Arts and Communication; Business; Culture and Society; Education; Science; Nursing, Health, and Exercise Science; and Engineering. TCNJ faculty members are teacher-scholars who share a commitment to liberal learning. TCNJ is located within an hour, by train, of New York City and Philadelphia. The College's campus is set on 289 tree-lined acres in suburban Ewing Township and is known for its natural beauty. TCNJ has 39 major buildings, including the 4th-best college library in the nation, according to the Princeton Review. For more information, visit www.tcnj.edu <<http://www.tcnj.edu>>.

To apply, candidates should send a letter of application; current curriculum vitae; statement of leadership philosophy; statement of teaching philosophy; statement of research interests and goals; graduate and undergraduate transcripts; and list of names, email and postal addresses, and phone numbers of three references. Please send to: Search Committee; Department of Physics; The College of New Jersey; PO Box 7718; Ewing, NJ 08628-0718. E-mail: physics@tcnj.edu <<mailto:physics@tcnj.edu>>. Electronic submission is strongly encouraged.

Applications will be accepted until the position is filled; those received by October 5, 2009 will be assured full consideration.

The College of New Jersey is an Affirmative Action /Equal Opportunity Employer.

2. NASA Postdoctoral Fellowships

The NASA Postdoctoral Program (NPP) offers unique research opportunities to highly talented national and international scientists and engineers to engage in ongoing NASA research in space science, earth science, aeronautics, space operations, exploration

systems, and astrobiology.

Awards:

- Approximately 50 Fellowships awarded annually
- One-year appointments, renewable up to three years
- Annual stipends start at \$50,000, with supplements for specific degree fields and high cost-of-living areas
- Annual travel budget of \$8,000
- Financial assistance for relocation
- Financial supplement for health insurance purchased through the program
- Apply at <http://nasa.orau.org/postdoc>

Application Deadlines:

Three each year - March 1, July 1, and November 1

Eligibility:

- U.S. Citizen
- Foreign Nationals with a J-1 visa status as a research scholar, Lawful Permanent Resident (LPR) status, or Employment Authorization Document (EAD) with pending LPR status
- Recent and senior-level Ph.D. recipients

Locations of Fellowship Positions:

- Ames Research Center, Moffett Field, CA
- Dryden Flight Research Center, Edwards, CA
- Glenn Research Center, Cleveland, OH
- Goddard Space Flight Center, Greenbelt, MD
- Goddard Institute for Space Studies, New York, NY
- Jet Propulsion Laboratory, Pasadena, CA
- Johnson Space Center, Houston, TX
- Kennedy Space Center, Kennedy Space Center, FL
- Langley Research Center, Hampton, VA
- Marshall Space Flight Center, Huntsville, AL
- Stennis Space Center, Stennis Space Center, MS
- NASA Headquarters, Washington, DC
- Various locations associated with the NASA Astrobiology Institute

To obtain more information and to apply for this exciting opportunity, please visit the NPP Web site at <http://nasa.orau.org/postdoc>.

3. Postdoctoral or Research Associate (Photocathode Scientist), Cornell University Accelerator Lab

The Cornell Laboratory for Accelerator-based Sciences and Education (CLASSE) seeks a photocathode researcher to work on photocathode materials for high brightness

photoemission electron sources. A Ph.D. in physics, material science, or chemistry is required. The position is either Postdoctoral Associate or Research Associate, depending on the applicant's qualifications and experience. Strong candidates with an additional postdoctoral experience of 1-3 years will be considered for the Research Associate appointment. The successful candidate will play a key role in establishing the dedicated photocathode laboratory and will conduct research aimed at understanding the physics of high quantum efficiency photocathodes suitable for production of ultra-bright electron beams, their design, characterization, as well as operation in a high performance accelerator environment. Applicants should have extensive experience with UHV systems and be well-versed with surface analyzing techniques. Some hands-on experience with lasers and familiarity with basics of accelerator physics are desirable.

Located on campus of a premier Ivy League Research University, CLASSE has a long history of excellence in various aspects of accelerator-related sciences and technology. The research will be conducted using cutting-edge tools available at CLASSE, with access to state-of-the-art facilities at Cornell Center for Materials Research (CCMR), Cornell Nanoscale Science & Technology Facility (CNF), and Cornell High Energy Synchrotron Source (CHESS).

The initial Postdoctoral Associate appointment will be for one year, with expectation of renewal for an additional two years. The initial Research Associate appointment will be for three years, with possibility for extension.

Please provide application and arrange to have at least three letters of reference sent to: Prof. Ivan Bazarov, Chair, Photocathode Scientist Search Committee, Newman Laboratory, Cornell University, Ithaca, NY 14853 USA. Applications should include a cover letter, curriculum vita, a publication list, and a detailed summary of research experience and interests. Electronic submissions and inquiries may be addressed to search-CLASSE@cornell.edu. Cornell is an equal opportunity/affirmative action employer.

4. Research Associate, CMS Experiment, Cornell University

The Laboratory for Elementary-Particle Physics at Cornell University has an opening for a Research Associate to work on the CMS experiment at the LHC. The Cornell group is involved in a broad array of activities, covering the pixel detector, triggering, electromagnetic calorimetry, software infrastructure, pixel sensor R&D, and studies for a track trigger at SLHC. We are involved with Standard Model top and electroweak physics and searches for Beyond the Standard Model physics. While we will consider exceptional candidates in any of these areas, priority in this search will be given to physics, upgrade studies, and R&D for the SLHC.

A PhD in experimental high energy physics is required. Appointments are nominally for three years with the possibility for renewal, subject to mutual satisfaction and the availability of funds under our NSF grant. Please provide an application and arrange to have at least three letters of reference sent to: Professor Anders Ryd, Chair, Research

Associate Search Committee, Newman Laboratory, Cornell University, Ithaca, NY
14853 USA

Applications should include a curriculum vita, a publication list, and a detailed summary of research experience and interests. Electronic submissions and inquiries may be addressed to search-CLASSE@cornell.edu. Complete applications will be considered immediately. Cornell is an equal-opportunity/affirmative action employer.

5. Faculty Position in Condensed Matter Theory, University of Maryland

DUTIES: The Department of Physics at the University of Maryland invites applications for a faculty position in the area of theoretical condensed matter physics. We expect that the successful candidate will complement the existing theoretical and experimental strengths in the department, especially in the Condensed Matter Theory Center (www.physics.umd.edu/cmtc), the Center for Nanophysics and Advanced Materials (www.cnam.umd.edu) and the NSF-funded Maryland Materials Research Science and Engineering Center (<http://mrsec.umd.edu/>). Appointments may be made at the tenure-track assistant professor level, or tenured associate or full professor levels as appropriate. The preferred starting date for the positions is August of 2010. **QUALIFICATIONS:** A Ph.D. in physics or physics-related discipline is required and strong postdoctoral experience in the field is generally expected. Good teaching is a high priority of the Department. Therefore, strong teaching skills, demonstrated or potential, are necessary. **TO APPLY:** Applicants should compose a single PDF file containing (1) a letter of application, (2) CV, (3) a statement of research interests and plans and (4) a statement of teaching philosophy; it should be labeled *Lastname_App.pdf* and uploaded at <http://umdphysics.umd.edu/cmt09.html>. *In addition*, applicants should arrange for four letters of recommendation to be sent as PDF attachments to cmt2009@physics.umd.edu. For best consideration, applications should be received by *December 1, 2009*. <http://umdphysics.umd.edu/faculty-search>. The University of Maryland is an Affirmative Action/Equal Opportunity Employer; women and minority candidates are encouraged to apply.

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7. Post-doctoral Associate – In-situ Microscopy and Imaging of Protein Crystals, Cornell High-Energy Synchrotron Source

The Macromolecular Diffraction Facility of the Cornell High-Energy Synchrotron Source (MacCHESS) has an opening for a post-doctoral associate. Applicants should have a Ph.D. degree in physics, optics engineering (confocal microscopy), image processing, spectroscopy, or a related field. The successful candidate will be working with local research groups, staff engineers, and scientists developing novel methods of in-situ sample analysis and 3D visualization of protein crystals mounted on an x-ray synchrotron beamline. Experience in Python or Java GUI programming is a plus.

Located on an ivy-league university campus in picturesque upstate New York, the Cornell High-Energy Synchrotron Source (CHESS) serves a world-wide user base of structural biologists, chemists, physicists, and engineers. MacCHESS is an NIH-supported National Resource providing support for structural biology at CHESS. MacCHESS is a heavily team-oriented environment. Good clear communication skills are a must, including fluency in the English language.

This is an entry-level post-doctoral position for one year, renewable for an additional year subject to mutual agreement and continued availability of funds. Please provide an application and arrange to have at least three letters of reference sent to: Dr. Marian Szebenyi, Chair, Postdoctoral Associate Search Committee, Newman Lab, Cornell University, Ithaca, NY 14853 USA.

Applications should include a cover letter, curriculum vita, a publication list, and a detailed summary of research experience and interests. Electronic submissions and inquiries may be addressed to search-lepp@cornell.edu. Deadline for application is November 15, 2009. Starting date is negotiable. Cornell is an equal opportunity employer.

8. APS Opportunity for Women Physicists for Feb. 12 Workshop

The American Physical Society will offer a workshop entitled Professional Skills Development for Women Physicists on Friday, February 12, 2010 in connection with the APS annual meeting in Washington, DC. The workshop will be aimed at tenured women

faculty in physics and women post doctoral associates in physics.

The deadline to apply is November 9, 2009. First consideration will go to applications received by that date. The workshop will be limited in size for optimal benefits.

All participants are eligible to receive a stipend to help cover the cost of travel and up to two nights lodging. Women of color are especially encouraged to apply.

The workshop is aimed towards enhancing the status of women in physics and will provide professional training on effective negotiation, communication and leadership skills for female physicists in a position to become the future leaders. In addition, the workshops will offer a special opportunity for networking. Information is now posted at <http://www.aps.org/programs/women/workshops/skills/index.cfm>.

A similar workshop will be offered on Sunday, March 14, 2010 at the APS annual meeting in Portland, Oregon (for post docs and junior, tenure-track women faculty).

The first series of workshops (2005, 2006, and 2007) was extremely successful, as were the workshops offered in 2008 and 2009.

This program is supported by an award from the National Science Foundation.

Questions? Please contact Sue Otwell at APS otwell@aps.org

Sherry Yennello, Texas A&M University, PI and past CSWP Chair Mary Hall Reno, University of Iowa, CSWP Chair 2009

9. Biophysical Society Summer Course in Biophysics 2010 Scholarship Application Now Available!

Biophysical Society Summer Course in Biophysics: Case Studies in the Physics of Life University of North Carolina, Chapel Hill -- May 19, 2010 - August 6, 2010. Application Deadline: May 5, 2010.

This course includes 3 course credits, stipend, lab experience, career counseling, and more. The Summer Course in Biophysics is open to 12 students. For eligibility requirements, detailed course description, and to apply, go to <http://www.biophysics.org/2009SummerCourse/tabid/898/Default.aspx> .

For questions regarding the Summer Course, please contact Julianna Wittig (Course Administrator) at jwittig@biophysics.org .

10. Faculty Position in Particle Astrophysics and Cosmology, Department of Physics, The Ohio State University

The Department of Physics at The Ohio State University anticipates a tenure track faculty appointment effective Fall Quarter 2010. Highly qualified candidates in all areas of particle astrophysics and cosmology are invited to apply. While we are primarily searching for a junior experimentalist, exceptionally well-qualified candidates at all levels in either theory or experiment will be considered. The position is affiliated with the Center for Cosmology and AstroParticle Physics, a joint venture between the Departments of Physics and Astronomy, and a joint appointment in the Department of Astronomy is possible. Additional information about CCAPP can be found at <http://ccapp.osu.edu>. Applicants should have a Ph.D. and an outstanding research record. A commitment to excellence in teaching at both the undergraduate and graduate levels is essential.

The Department currently has 55 faculty and approximately 60 postdoctoral researchers and research scientists, 160 graduate students, and 250 undergraduate majors. Our expanding research operation is located in the new Physics Research Building, which contains state-of-the-art office, meeting, and laboratory space. Additional information about the department may be found at <http://www.physics.ohio-state.edu>.

All applications should be submitted electronically at <http://www.physics.ohio-state.edu/jobs/facultyapp/>.

Candidates should submit a letter of application, a complete curriculum vitae including a list of publications, a brief description of research plans, and a teaching statement. Senior applicants should provide contact information for at least four people from whom letters of reference may be requested. Junior applicants should arrange for at least four letters of reference to be sent to: Astrophysics Search Committee, Department of Physics, The Ohio State University, 191 West Woodruff Ave., Columbus, OH 43210., Applications received by 1 December 2009 are assured of full consideration. Job application assistance is available for dual career situations.

11. Physical Scientist as Program Manager for Isotope Facilities in the Office of Nuclear Physics at the Department of Energy.

A position is open for a Physical Scientist as Program Manager for Isotope Facilities in the Office of Nuclear Physics at the Department of Energy (DOE) (Announcement 09-DE-SC-HQ-069 (pm)).

The vacancy notice and application instructions can be accessed on the web at: <http://www.usajobs.gov> .

A brief description of the position follows below. Please share this information with anyone who may be interested. The entire field benefits from having experienced, knowledgeable managers involved in the funding decisions and in the advocacy of the Nuclear Physics scientific program. Please encourage any interested person to contact Jehanne Gillo at 301-903-1455 or e-mail at Jehanne.Gillo@science.doe.gov for more information. The deadline for submission is 01/04/10.

PLEASE NOTE SUBMISSION OF A COPY OF TRANSCRIPTS/OR COURSE LISTING IS REQUIRED BY 11 PM OF CLOSING DATE TO BE CONSIDERED FOR THIS POSITION.

Eugene A. Henry, Acting Associate Director of Science, for Nuclear Physics Department of Energy,

Duties and Responsibilities:

The incumbent will serve as a recognized scientific authority and expert in the areas of isotope facility operations and isotope processing, including the status of isotope production and processing facilities, and as such have the responsibility to plan, coordinate, implement, and evaluate this field on a national and international level. The incumbent will serve as Program Manager determining scientific focus and direction of isotope production and processing facilities? improvement projects and facility instrumentation initiatives, preparing calls for proposals, organizing independent peer reviews, recommending funding allocations, organizing Principal Investigator meetings, serving as a liaison on committees, and monitoring scientific progress of the program. The incumbent will examine and ascertain effectiveness of operations of the nuclear physics isotope production and processing facilities against scientific and technological advances and of potential needs of the Department of Energy. The incumbent will critically evaluate contractor, DOE laboratory, and grantee research proposals and performance via own scientific and technical judgment, merit review, site visits and reviews, and panel reviews. The incumbent will develop and prepare analytical documents to communicate with top management of DOE and higher echelons of government on the status of programmatic phases and new developments and opportunities in a broad range of nuclear physics and accelerator facility operations.

12. LIGO Student Fellowships Awarded to Pablo Daveloza of UT Brownsville

Pablo Daveloza was selected as one of two graduate students this year that will receive a LIGO Student Fellowship. Pablo will perform his work at LHO under the supervision of Rick Savage, along with Mario Diaz at UTB. Congratulations!

13. Jorge Muñoz and Jorge López Received the Texas Section – APS Hyer Award

Jorge Muñoz, NSHP Student Rep, and his former research advisor Jorge López, NSHP News Guy, received the undergraduate portion of the Hyer Award of the Texas Section of APS for the study “ Isoscaling in the High Temperature Limit”; Muñoz, now a PhD candidate at Caltech received a plaque and a \$500 check, and the other Jorge only a plaque (is that fair?). Congratulations!

**Jorge A. López
Schumaker Professor
Physics Dept., UTEP**

915-747-7528

<http://www.jorgelopez.utep.edu/jorgeptr/jorge.htm>