

**From:** "Lopez, Jorge" <jorgelopez@utep.edu>  
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▶ 2 Attachments, 147 KB

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### **The Hispanic Physicist**

A news service of the National Society of Hispanic Physicists

Please send news, congratulations, etc. to Dr. Jorge A. Lopez, [jorgelopez@utep.edu](mailto:jorgelopez@utep.edu)  
or upload job opportunities in our web site: <http://www.hispanicphysicists.org>

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1. 2011 Annual SACNAS Meeting, Oct 27-30, Jan Jose, CA
  2. Opportunities for graduate studies at UT Austin
  3. UT Austin Physics Summer Research Internship
  4. 2011 Gordon Research Conference on Nuclear Chemistry, June 12-17, 2011
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1. 2011 Annual SACNAS Meeting, Oct 27-30, Jan Jose, CA

#### **Session Submissions Deadline: Friday, April 15**

Please mark your calendars for this year's SACNAS Conference. NSHP has for many years been active in recruiting faculty and students to this meeting and will continue in this role again this year. Faculty, please bring this opportunity to the attention of your students and plan to attend yourself. Students, this is a great opportunity to present your research to a friendly and supportive audience as well as benefit from the many professional development sessions offered.

The first deadline is that for proposing sessions. NSHP has for many years organized three sessions, one in astronomy/astrophysics, one in materials science, and one in nuclear/particle physics. In addition, members have successfully proposed sessions on areas of their own interest. In addition, professional development sessions for students are needed. Please volunteer to help organize a session, or simply step up and do the organizing yourself. Let NSHP (David Ernst, [david.j.ernst@vanderbilt.edu](mailto:david.j.ernst@vanderbilt.edu)) know so we can avoid any unnecessary competition among ourselves, and so we can advertise the session to our membership.

SACNAS invites submissions of session proposals for our national meeting to build the agenda for the 2011 SACNAS National Conference, taking place in San Jose, California from October 27-30. Professionals are encouraged to submit session proposals for professional development, leadership, special events, or scientific symposia.

For more information go to the SACNAS web site: [www.sacnas.org](http://www.sacnas.org)

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## 2. Opportunities for Graduate studies at UT Austin

- 60 faculty members, including Steven Weinberg, 1979 recipient of the Nobel Prize in Physics and several members of the National Academy of Science and 5 female faculty members
- Appointing more than 15 young faculty over the last decade
- Approximately two hundred and seventy graduate students
- Approximately half of the faculty are experimentalists while the other half are theorists
- Research areas include:
  - o atomic, molecular and optical physics
  - o nonlinear dynamics
  - o biophysics
  - o nuclear physics
  - o plasma physics
  - o fluid dynamics
  - o condensed matter physics
  - o relativity, string theory and cosmology
  - o statistical mechanics
  - o elementary particle physics
- Fellowships available based on talent, need and diversity
- Other entering students awarded Teaching Assistant and/or Research Assistant positions
- Located in Austin, TX, which ranks high among best cities to live in
- More information at: <http://www.ph.utexas.edu/>.

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## 3. UT Austin Physics Summer Research Internship

*A hands-on introduction to a research career in Physics*

- Work with a UT Austin faculty and graduate students on a 2-month research project
- Opportunities to network with other summer interns and UT graduate students
- Monthly stipend to cover living costs in Austin
- Applicants should have completed at least one advanced physics course and be in sophomore year or higher, or be in a Master Degree program.
- To apply, provide:
  1. Cover letter with contact information, research areas of interest, and the names of 3 UT Austin professors with whom you would like to work
  2. College transcript
  3. Two letters of recommendation (mailed directly by recommender)
- Mail to: Matthew Ervin, Department of Physics, University of Texas at Austin, 1 University Station C1600, Austin, Tx 78712-0264
- Send questions to Matthew Ervin [graduate@physics.utexas.edu](mailto:graduate@physics.utexas.edu), carbon copy to Dr. H. Berk [hberk@mail.utexas.edu](mailto:hberk@mail.utexas.edu).

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## 4. 2011 Gordon Research Conference on Nuclear Chemistry, June 12-17, 2011

The 2011 Gordon Research Conference on Nuclear Chemistry will be held June 12-17, 2011 at

Colby Sawyer College, New London, New Hampshire, USA. With subtitle: "Intersections Between Structure and Reactions: Pushing the Frontiers of Nuclear Science", the 2011 Nuclear Chemistry GRC will bring together the reaction and structure nuclear science communities, proposing a choice of topics lying at the frontier of the two fields and at the forefront of present nuclear science research.

Topics include:

- . Stellar matter and the nuclear EOS
- . Structure and clustering at the driplines
- . Structure, reactions and nucleosynthesis
- . Reaction dynamics and coupling to nuclear structure
- . Synthesis and spectroscopy of superheavy elements
- . Thermal properties and phase transitions
- . Dissipation and fragmentation
- . R&D for the new facilities

A special session on Science Communication will conclude the conference.

Please refer to the meeting program page for more details <http://www.grc.org/programs.aspx?year=2011&program=nuchem> .

Applications are open. All are encouraged to apply early online at <http://www.grc.org/application.aspx>

The submission of poster abstracts is invited at the time of application.

As in previous Nuclear Chemistry Gordon Conferences, the poster sessions will play a key role in the presentation and discussion of forefront research. The best posters will be selected for oral presentations.

Participation of students and younger scientists is strongly encouraged, for whom partial financial support may be available.

A new opportunity in conjunction with this GRC is the organization of a Gordon-Kenan student/postdoctoral Seminar prior to the conference.

The Gordon-Kenan Research Seminar on Nuclear Chemistry is a unique forum for graduate students, post-docs, and other scientists with comparable levels of experience and education to present and exchange new data and cutting edge ideas.

The focus of this meeting is to catalyze collaboration and networking for future leaders in nuclear science by providing a unique forum in which the interfaces between their cutting-edge research in nuclear structure, reactions and astrophysics are emphasized. Participants will have the opportunity to meet with selected leading scientists in academia, industry and national laboratories, including a career panel discussion.

More information can be found at :

[http://www.grc.org/programs.aspx?year=2011&program=grs\\_nuchm](http://www.grc.org/programs.aspx?year=2011&program=grs_nuchm)

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## 5. 2011 Second International Symposium on Nuclear Symmetry Energy, June 17-20

Another connected event is the Second International Symposium on Nuclear Symmetry Energy, NuSYM11, where recent progresses on the equation of state of isospin asymmetric nuclear matter and its astrophysical implications will be discussed. The Symposium will be held from June 17 till June 20, 2011 at Smith College in Northampton, Massachusetts. Transportation from the GRC site ( New London, NH) to Smith College will be arranged by the organizers. More details on the webpage <http://www.smith.edu/nusym11> Looking forward to seeing you in New Hampshire in June,

Francesca Gulminelli [gulminelli@lpccaen.in2p3.fr](mailto:gulminelli@lpccaen.in2p3.fr) (chair) Alexandra Gade (MSU - USA) [gade@nscl.msu.edu](mailto:gade@nscl.msu.edu) (vicechair)

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## 6. Senior Research Associate, Cornell Laboratory for Sciences and Education

The Cornell Laboratory for Accelerator-based Sciences and Education (CLASSE) seeks an individual to take a lead role in the management and development of major accelerator systems. The specific research and development activities will be in one of the accelerator-associated fields that are part of the mission of CLASSE (x-ray science, accelerator science, or elementary particle physics). These activities will be determined in consultation with the CLASSE Director, to whom this position reports. Duties will also include: overseeing accelerator radiation protection and safety systems; performing radiation shielding calculations using Monte Carlo codes such as MARS, FLUKA, EGS5, or MCNPX; calculating radioactivity induced in materials by stray radiation fields around electron accelerators; assessing radiation damage in electronics; making measurements of photon and neutron spectra over a wide energy range; reviewing and approving safety analysis documents for laboratory operations, working with staff at all levels to analyze and set procedures for unusual or new safety issues.

Requirements: A PhD in one of the physical sciences or engineering, and several years of experience in experimental high-energy accelerator physics or nuclear science and engineering. Must be familiar with: biological effects from natural and man-made sources of environmental radioactivity; federal, state, and local laws governing radiation; photon and neutron dosimetry; and occupational, chemical, biological, and laser safety. A high level of people skills and mature judgment are essential.

Please send a cover letter, including curriculum vitae and a publications list to Dr. Maury Tigner, Newman Laboratory, Cornell University, Ithaca, NY 14853, and arrange for three letters of recommendation to be sent. Correspondence may be directed to [search\\_classe@cornell.edu](mailto:search_classe@cornell.edu). Cornell University is an equal opportunity, affirmative action educator and employer.

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## 7. Faculty Position at University of Massachusetts Lowell

I would appreciate your publicizing the **attached announcement** for a tenure-track faculty opening in Experimental Nuclear Physics at the University of Massachusetts Lowell. Apologies if

you receive multiple copies due to the merging of different e-mail lists.

Thank you

Partha Chowdhury

*Professor of Physics, Co-Director, Radiation Laboratory, University of Massachusetts Lowell, Lowell, MA 01854, (978) 934 3730, [partha\\_chowdhury@uml.edu](mailto:partha_chowdhury@uml.edu)*

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## **8. Assistant Professorship in Nuclear-Structure Physics with Exotic Ion Beams at Technische Universität Darmstadt**

Please find **attached an announcement** inviting applications for an open Assistant Professor position at the Technical University Darmstadt. It is expected that the successful candidate will be engaged in the research program with relativistic radioactive ion beams. Please forward this announcement to interested candidates.

With best regards

Tom Aumann

Prof. Dr. Thomas Aumann, Institut für Kernphysik ([taumann@ikp.tu-darmstadt.de](mailto:taumann@ikp.tu-darmstadt.de)).

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## **9. Obituary: Victor Blanco (1918-2011)**

**Victor Blanco**, famous Puerto Rican, US and Chilean astronomer, Former Director of the Cerro Tololo Inter-American Observatory, National Optical Astronomy Observatories, La Serena, Chile died on his birthday, March 8, at the age of 93. A biography can be found at <http://www.annualreviews.org/doi/pdf/10.1146/annurev.astro.39.1.1>

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## **10. Join the Friends of COM listserv**

APS has established a COM Friends listserv for former members of the APS Committee on Minorities in physics (COM) and for others who are interested in keeping abreast of APS programs to increase minority participation in physics. This list will allow subscribers to learn about COM's initiatives, other diversity-related APS programs, and diversity activities within the physics community; and will provide opportunities for subscribers to provide feedback and/or participate in specific ways to forward these goals.

As a former COM member, you have been subscribed to the COM Friends listserv, but can unsubscribe at any time using the link at the bottom of any message. In order to send a message to the list, you can send a message to [comfriends@aps.org](mailto:comfriends@aps.org). This list is moderated; therefore all messages will be subject to approval. This will limit junkmail and inappropriate messages.

The Friends of COM list may be used to:

- Send you updates on COM's activities and programs
- Send you updates on general diversity initiatives both at APS and in the physics community
- Provide an opportunity for you to communicate with APS, COM, and each other about diversity efforts and ideas
- Send job announcements
- Ask for volunteers for particular programs

We hope that you find this listserv valuable and will continue to subscribe to it.

Sincerely,

Arlene Modeste Knowles  
COM Friends List Moderator  
Career & Diversity Programs Administrator American Physical Society One Physics Ellipse  
College Park, MD 20740  
301-209-3232  
301-209-3357 fax  
[knowles@aps.org](mailto:knowles@aps.org)  
[www.aps.org](http://www.aps.org)

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## **11.AFCEA Expands Teacher Education Scholarships Supporting Science, Technology, Engineering and Math (STEM) Studies**

FAIRFAX, VA – Calling the nation's declining numbers of science, technology, engineering and math students "one of the greatest challenges facing America," AFCEA International and the AFCEA Educational Foundation are increasing the number of scholarships available to support those preparing to teach a STEM subject in an American middle or secondary school. The increase from 35 to 50 annual scholarships of \$5,000 each comes only one year after AFCEA launched the initiative.

"The latest studies show we are continuing to fall behind while other countries multiply their investments in science, math and technical education," said Fred Rainbow, Vice President for Education, AFCEA International. "Our schools, labs, industries, military, government agencies – plus the quality of our lives – will suffer if we don't address this as one of the greatest challenges facing America."

Among the latest in warning signs, the recently released Science National Assessment of Educational Progress in the U.S. found that 79 percent of high school seniors fall short of science proficiency. President Barack Obama has set a goal of preparing 100,000 new teachers in STEM fields over the next 10 years, saying in his Jan. 25 State of the Union address, "Maintaining our leadership in research and technology is crucial to America's success. But if we want to win the future – if we want innovation to produce jobs in America and not overseas – then we also have to win the race to educate our kids."

AFCEA is a long-time supporter of STEM education, offering annual \$1,000 grants to STEM teachers to help pay for classroom supplies through its Science Teaching Tools program. Last year, with major support from Booz Allen Hamilton and AFCEA International's own funds, the number of STEM teaching scholarships grew from two to 35. Two hundred future teachers of STEM subjects applied.

For the 2011-2012 school year – with the added support of Terremark Worldwide and five AFCEA Chapters, 50 scholarships will be available. To be eligible, students must be a U.S. citizen and a sophomore, junior, graduate or credential/licensure student attending an accredited college or university in the U.S. and be pursuing a degree for the purpose of teaching a STEM subject in a U.S. middle or secondary school. Additionally, nominees must be enrolled full time and hold a minimum grade point average of 3.0.

In addition to the \$5,000 scholarship, each graduating AFCEA STEM Scholar will receive a \$1,000 AFCEA Science Teaching Tool grant each year for three years if the recipient continues to teach a STEM subject. These grants can be used to fund hardware and software, other classroom tools, field trips, STEM-focused clubs and other activities.

Interested candidates, teachers and mentors can get [more information and apply online at http://stem.afcea.org](http://stem.afcea.org). The application deadline is May 1, 2011, and scholarships will be awarded in August.

### **About AFCEA International and the AFCEA Educational Foundation**

AFCEA International, established in 1946, is a non-profit membership association serving the military, government, industry, and academia as an ethical forum for advancing professional knowledge and relationships in the fields of communications, IT, intelligence, and global security. For more information, visit [www.afcea.org](http://www.afcea.org).

The AFCEA Educational Foundation works closely with the chapters, raises funds, and provides leadership, guidance, and rewards to help motivate more students to become scientists and engineers. The Foundation is an independent 501(c)(3) organization dedicated to providing educational incentives, opportunities, and assistance for students and teachers in the science, technology, engineering, and mathematics disciplines (broadly known as STEM). In 2009 the AFCEA Educational Foundation awarded more than \$1.5M in scholarships and grants. The AFCEA Educational Foundation has been granting scholarships and grants to college students in STEM disciplines for 30 years. Working with AFCEA local chapters, the Foundation's Science Teaching Tool program annually reaches 200+ teachers and an estimated 50,000+ students in grades kindergarten through high school.

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## **12. DNP 2011 Fall Meeting, East Lansing**

### **Call for Invited Speaker Nominations**

The April 2011 Spring Meeting (Anaheim) will soon be here. The DNP Program Committee, under the chairmanship of Robert D. McKeown, will meet to plan the program for the DNP 2011 Fall Meeting to be held next October in East Lansing. Details, including registration and housing

will appear in the May newsletter.

As is traditional, at least one of the invited sessions will be comprised of speakers nominated by DNP members. The invited speaker nomination web site is now available to send your speaker nomination directly to Bob McKeown. Go to the DNP Home Page

<http://dnp.aps.org>

and link to the invited speaker nomination web form.

The deadline for invited speaker nominations is 14 April 2011.

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### 13. Research Fellowships at DOE

***The Department of Energy's (DOE)  
Office of Energy Efficiency and Renewable Energy (EERE)  
is accepting applications for two new research fellowships.***

***Research Areas***

Energy Efficiency: Buildings - Industry – Vehicles

Renewable Energy: Biomass – Hydrogen & Fuel Cells – Geothermal – Solar – Water -Wind

**Yearly Stipend - Research Allowance - Health Insurance  
Relocation Travel - Two Years of Support  
Postdoctoral Fellowships**

***Research opportunities for recent Ph.D. graduates...***

The EERE Postdoctoral Fellowships support its mission in energy efficiency and renewable energy by offering recent Ph.D. recipients the opportunity to conduct applied research at universities, national laboratories, and other research facilities. Application deadline is June 30, 2011. More information and application materials can be found at

[http://www1.eere.energy.gov/education/postdoctoral\\_fellowships/](http://www1.eere.energy.gov/education/postdoctoral_fellowships/)

**Science and Technology Policy Fellowships**

***Policy-related projects for Ph.D. scientists and engineers...***

The EERE Science and Technology Policy (STP) Fellowships will serve as the next step in the educational and professional development of scientists and engineers interested in energy efficiency and renewable energy policy. Selected applicants will be assigned to participate in policy-related projects at DOE's Office of Energy Efficiency and Renewable Energy in Washington, D.C. Applications will be accepted on a rolling basis. For more information and application materials, visit [http://www1.eere.energy.gov/education/stp\\_fellowships.html](http://www1.eere.energy.gov/education/stp_fellowships.html)

Applicants selected as Fellows may have the additional distinction of guiding the implementation of the new solar [SunShot Initiative](#) in the DOE Solar Energy Technologies Program. The SunShot Fellows will have a key leadership role in beginning new research and development programs to achieve the goal of \$1/W installed photovoltaics by 2020.

*Please share this information with others at your academic institution/organization.*

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#### **14. Tenure-Track Assistant Professor Position in Radiation/Medical Physics**

The Physics Department at San Diego State University invites applications for a tenure-track position in experimental studies of the interaction of radiation with matter. Of particular interest are candidates whose research will support our medical physics program. The position begins the fall of 2011.

Candidates must demonstrate a strong commitment to excellence in teaching at both the undergraduate and graduate levels and be comfortable with all aspects of teaching our physics curriculum.

Applicants should have a Ph.D. in physics or related field and postdoctoral experience. A strong record of scholarly publications is expected. A strong emphasis will be placed on the successful candidate's ability to initiate and seek extramural funding for a vigorous research program involving undergraduate as well as graduate students.

The Department offers a bachelor's and master's degree in physics, and has a CAMPEP accredited masters program in medical physics, as well as experimental programs in optics and condensed matter. We have on-going collaborations with local hospitals, clinics, and other industries involved with the application of medical and health physics. The Department has well-equipped radiological and nuclear instrumentation laboratories. The medical physics program is currently supported by two federal training grants.

#### Applications

should include 1) a curriculum vitae, 2) a statement of research and teaching interests including a description of future research plans, 3) the names and addresses of three references. Applications should be sent to:

Prof. Fridolin Weber  
Chair, Search Committee  
San Diego State University  
Physics Department  
5500 Campanile Drive  
San Diego  
California 92182-1233

Review of applications will begin on April 15, 2011 and continue until the position is filled. Questions should be directed to Professor Fridolin Weber at [fweber@sciences.sdsu.edu](mailto:fweber@sciences.sdsu.edu). Additional information about the department can be found at [www.physics.sdsu.edu](http://www.physics.sdsu.edu).

SDSU is an equal opportunity employer and does not discriminate against persons on the basis of race, religion, national origin, sexual orientation, gender, gender identity and expression, marital status, age, disability, pregnancy, medical condition, or covered veteran status.

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*Jorge A. López*

Schumaker Professor  
Physics Dept., UTEP, 915-747-7528  
[Academic information](#)  
[What have I been doing?](#)



The Institut für Kernphysik at the Department of Physics at the Technische Universität Darmstadt invites application for the position of a

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**Assistant Professorship in Nuclear-Structure Physics with Exotic Ion Beams (W1)**

to be filled as soon as possible.

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The professorship is part of the Helmholtz International Center for the Facility for Antiproton and Ion Research (HIC for FAIR), which is funded by the Hessian Excellence Initiative LOEWE. The professorship is also integrated in the Institut für Kernphysik at the TU Darmstadt.

Candidates should have contributed outstanding research in the field of experimental nuclear physics with exotic ion beams. It is expected that the successful candidate will be engaged in the research program with relativistic radioactive ion beams at the GSI Helmholtzzentrum and the international Facility for Antiproton and Ion Research (FAIR) within HIC for FAIR and the research cluster Nuclear and Radiation Science of the Technische Universität Darmstadt.

The successful appointee will teach experimental physics and will take part in academic administration.

The doctorate and the period of employment as a research assistant should not have exceeded a total of 6 years. The position is initially assigned for three years. Provides that the evaluation will be positive, the appointment is extendable for three more years. Remuneration follows the German W-Besoldung at Level W-1.

The Technische Universität Darmstadt intends to increase the number of female faculty members and encourages female candidates to apply. In case of equal qualifications applicants with a degree of disability of at least 50 or equal will be given preference.

The application including the usual documents (a curriculum vitae, list of publications, as well as a description of research and teaching activities) should be sent under the above stated code number to the Dean of the Department of Physics, TU Darmstadt, Pankratiusstraße 2, 64289 Darmstadt, Germany. For questions regarding the position, you can also contact Prof. Dr. Thomas Aumann, Institut für Kernphysik (taumann@ikp.tu-darmstadt.de).

**Code. No. 68**

**Application deadline: 21-Mar-2011**

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## **Tenure Track Faculty Position in Experimental Nuclear Physics**

### **University of Massachusetts Lowell**

The Department of Physics and Applied Physics at the University of Massachusetts Lowell invites applications for a tenure-track faculty appointment in Experimental Nuclear Physics, effective Fall 2011. Although the search is aimed at the assistant or associate professor level, the scope of the search is broad, with senior level appointments possible for a candidate with outstanding breadth and record. Current departmental research in accelerator-based nuclear spectroscopy, advanced detector development and digital signal processing is carried out in collaboration with national lab and industry partners. Interdisciplinary research with nuclear techniques is carried out with a 5.5-MV Van de Graaff accelerator and a 1-MW research reactor on campus.

The Department is looking for someone with an outstanding research record, and a strong interest in teaching at both the undergraduate and graduate levels. The successful candidate will be expected to develop an externally sponsored research program that would complement and build on existing research strengths and facilities. A Ph. D. in Physics or closely related discipline is required. Applications from minority and women candidates are especially encouraged.

The university is situated in the historic city of Lowell, on the Merrimack river, a half-hour north-west of Boston.

Review of applications begins March 28, 2011. To apply, please visit the online application portal at <http://www.uml.edu/jobs> for the position of *Tenure-track Asst/Assoc Professor - Physics ( Nuclear Sciences)*.

