



The Hispanic Physicist

The Newsletter of the National Society of Hispanic Physicists

Year 20

June 4, 2016



2016 LIGO Victor Blanco Fellows

This year the LIGO Victor Blanco Fellows are Danielle Frostig, from Harvard, and Michael Antia from U. Central Florida. The Victor Blanco Fellowships are sponsored by the LIGO laboratories and associated universities in conjunction with NSHP. The Fellows will participate in Caltech's LIGO SURF Summer Research Experience for Undergraduates Program:

http://labcit.ligo.caltech.edu/LIGO_web/students/SURF/.

NSHP congratulates Danielle and Michael!



Paolo Gomes

Last May 27 our colleague and friend Paolo Roberto Silveira Gomes, from Brazil's Universidade Federal Fluminense (UFF), died victim of a heart attack while attending an International Conference in Naples, Italy. Paolo obtained his BS and MS degrees at the Pontifical Catholic University of Rio de Janeiro and his PhD from the University of Sussex in 1979. He returned to UFF becoming a professor in 2004. His area of research was atomic and nuclear physics (theoretical and experimental), as well as applied physics; he published more than 180 articles in journals which –to date- have received over 4600 citations. Paolo was a strong contributor to the development of physics in Latin America, being one of the supporters of the Association of Latin American Nuclear Physics and Applications (ALAFNA) and its popular Symposium since 1999.

Paolo will be missed by many NSHP members.



Earth & Space Science News

Creating Career Paths for African-American Students in Geosciences

Our friend Sekazi Mtingwa recommends this excellent article about career opportunities for Minority scientists: <https://eos.org/project-updates/creating-career-paths-for-african-american-students-in-geosciences>.

[updates/creating-career-paths-for-african-american-students-in-geosciences](https://eos.org/project-updates/creating-career-paths-for-african-american-students-in-geosciences).

Thanks Sekazi!

NSHP Members in the News



Aaron Dominguez named Dean at CUA

Dr. Aaron Dominguez was appointed as Dean of the School of Arts and Sciences at the Catholic University of America. Dominguez is an experimental high energy physicist leader



of a team of researchers from U. Nebraska Lincoln and eight other universities working on the construction of particle detectors for experiments at CERN.

NSHP congratulates Aaron Dominguez!

Hispanic Physicist Editor Awarded Regents' Outstanding Teaching Award

The prestigious award is given yearly to a small number of faculty members from the University of Texas System after rigorous campus and System reviews, and it includes an insanely large amount of money. If you need to know the name of the Editor please scroll down to the end of this newsletter.



THE UNIVERSITY of TEXAS SYSTEM



Post-doctoral Position in experimental nuclear astrophysics - IPN Orsay

The Institut de Physique Nucléaire in Orsay (IPNO) invites highly motivated applicants for a two year CNRS post-doctoral position starting from September 1st in the field of experimental nuclear astrophysics. The team, part of the NESTER group is involved in the study of nucleosynthesis in different astrophysics sites using existing stable ion beam facilities (Tandem/ALTO at Orsay and MLL-Munich) and radioactive ion beams at GANIL-Caen. A CV and two letters of recommendation should be sent by **June 30th 2016** to Faïrouz Hammache hammache@ipno.in2p3.fr and Nicolas de Séréville at deserevi@ipno.in2p3.fr. Payment: ~ 2575 € - 2971 € gross salary. More information <http://ipnwww.in2p3.fr/>



Applications being accepted for Australia Endeavour Scholarships and Fellowships

ORAU has partnered with the Australian Government to seek U.S. and Canadian applicants for Australia's Endeavour Scholarships and Fellowships, an internationally competitive, merit-based scholarship program that provides up to \$272,500 Australian dollars (~\$204,000 USD or ~\$260,000 CAD) for study, research or professional development opportunities between Australia and the world.

Applicants may apply through 11:59 p.m. (Australian Eastern Standard Time) **June 30, 2016**, for the following opportunities: Endeavour Postgraduate Scholarship, Endeavour Research Fellowships, Endeavour Vocational Education and Training Scholarships, and Endeavour Executive Fellowships. Program benefits include travel and establishment allowances that can be used towards expenses such as rental bonds, text books, study materials, or computer/software expenses. A monthly stipend is also provided to cover living expenses while residing in the host country. To be eligible, applicants must be 18 years of age and have completed at minimum a bachelor's degree. For more information on eligibility requirements or to apply, visit the Endeavour Scholarships and Fellowships website.

<https://www.orau.org/media-center/news-releases/2016/fy16-28-orau-accepting-applications-endeavour-scholarships-fellowships-program.aspx>



Postdoctoral fellowship in nuclear physics - Saclay

The Nuclear Physics Division (DSM/IRFU/SPhN) of the French Atomic Energy and Alternative Energies Commission (CEA) at Saclay invites applications for a post-doctoral position in experimental low-energy nuclear structure physics. Research at SPhN is conducted in four areas: Nucleon and hadron structure, quark-gluon plasma, nuclear reactions and their applications and nuclear structure. Concerning the latter, The Laboratoire d'Études du Noyau Atomique (LENA, Laboratory for nuclear structure study) has three research axes: the study of the

shapes of nuclei, of the exotic nuclei, and of heavy and super-heavy elements. The candidate will work on this last topic.

Applicants are required to have a PhD in experimental nuclear physics and experience in data analysis. Experience using spectrometers, semi-conductor detectors and associated instrumentation for nuclear spectroscopy is also desirable as well as good knowledge of data-analysis tools especially ROOT and C/C++ programming skills. The application will be composed of: curriculum vitae, letter of motivation (2-3 pages), list of publications, talks in conferences and seminars, Contact information of two references. Full applications should be sent in pdf format **at latest on the 27th of June** to Barbara Sulignano at barbara.sulignano@cea.fr and Antoine Drouart at antoine.drouart@cea.fr. The position is initially for one year, renewable upon mutual agreement for a second year. The contract could start autumn 2016.



Technician II at NST

Job Requisition Number: 110497, Job Title: Technician II, Level(s): L2, Work Location: Livermore Operations

RESPONSIBILITIES: Applies engineering technologies to perform scope of work similar to that for degreed scientists or engineers; work performed contributes directly to engineering performance. Serves as a technician resource and advisor to other scientist and engineer personnel and management on difficult and critical technical issues, providing practical advice on implementation of technical solutions.

QUALIFICATIONS: Associate's degree in Electronics Technology or High School diploma or equivalent plus two years' progressive related experience. Ability to work in a team environment that includes scientists, engineers, technicians, and designers. Limited travel is required. Candidate must possess current valid driver's license. An ability to obtain a DOE "Q" security clearance. Applicant selected will be subject to a federal background investigation and must meet eligibility requirements for access to classified matter.

For Consideration: Apply by forwarding your resume, with identifying requisition number(s), using one of the following methods: E-mail: ntsresumes@nv.doe.gov, Mail: National Security Technologies, LLC, Attn: Human Resources, M/S NLV014, P. O. Box 98521, Las Vegas, NV 89193-8521, Fax: (702) 295-2448.

Engineer II

Job Requisition Number: 110670, Level(s): L2, Work Location: Livermore Operations

RESPONSIBILITIES: Devises solutions to significant technical problems of broad scope. Applies technical concepts and techniques for practical purposes. Serves as a technical resource and advisor to other scientist and engineer personnel and management on difficult and critical technical issues, providing practical advice on implementation of technical solutions. Performs work of moderate scope and complexity. Develops solutions to problems of well-defined scope. Participates in developing field programs and designs. Candidate will work in a variety of diagnostic testing facilities capable of radiating X-rays, UV and visible light; candidate will also assist in laboratory setup, diagnostic setup, diagnostic operation and analyzing collected data. Candidate will often work independently to uncover and resolve problems. Performs related tasks as assigned by supervisor. Works under general supervision with limited guidance from more experienced scientist and engineers. Frequent use and application of technical standards, principles, theories, Minimum Qualifications concepts, and techniques. Often serves as a member of work teams.

QUALIFICATIONS: Bachelor's degree in Engineering Physics, Electrical Engineering, or in a calculus-based Science, Technology, Engineering, Mathematics (STEM) field, plus at least two years' relevant experience. Knowledge of physics principles, communication systems, RF, Microwave, digital circuit design. Experience with working in a team environment that includes scientist, engineers, technicians, and designers. Ability to work under minimal supervision in a dynamic multidisciplinary project environment with simultaneous commitments to performance, cost, and schedule. Limited travel is required. Department of Energy Q Clearance (position will be cleared to this level). Reviews and tests for the absence of any illegal drug as defined in 10 CFR Part 707.4, "Workplace Substance Abuse Programs at DOE Sites," will be conducted. Applicant selected will be subject to a Federal background investigation, and subsequent reinvestigations, and must meet the eligibility requirements for access to classified matter. Successful completion of a counterintelligence evaluation, which may include a counterintelligence-scope polygraph examination, may also be required. Reference 10 CFR Part 709, "Counterintelligence Evaluation Program." Eligibility Requirements – To obtain a clearance, an individual must be a U.S. citizen at least 18 years of age. Reference DOE Order 472.2, "Personnel Security."

For Consideration: Apply by forwarding your resume, with identifying requisition number(s), using one of the following methods: E-mail: ntsresumes@nv.doe.gov, Mail: National Security Technologies, LLC, Attn: Human Resources, M/S NLV014, P. O. Box 98521, Las Vegas, NV 89193-8521, Fax: (702) 295-2448



Department Chair, Computational and Data Sciences

The George Mason University, College of Science, Department of Computational and Data Sciences seeks applications for a senior scholar with significant administrative experience to serve as the Chair of the Department of Computational and Data Sciences. George Mason University has a strong institutional commitment to the achievement of excellence and diversity among its faculty and staff. Women, minorities, individuals with disabilities and veterans are encouraged to apply.

Responsibilities:

The individual serving in this position will be a leading scientist in a natural, computational, social science, or related discipline. The candidate should complement and enhance the expertise present in the program areas of the department which include Data Science, Computational Science, and Computational Social Science. The Chair is expected to foster an environment of teaching excellence, high research productivity, and distinguished service among the faculty.

Qualifications:

The successful candidate will have substantial teaching and research experience at the university level, and a history of successful faculty and student management. Applicants must have an earned doctorate and be eligible for appointment as a tenured associate or full professor. Other required qualifications include a substantial history of externally funded collaborative research projects; a distinguished publication record; an ongoing and impactful research program with evidence of mentorship of graduate students and junior faculty; and a record of effective teaching of courses in computational and data sciences across both undergraduate and graduate levels.

Applicants must apply for position number F9974z at <http://jobs.gmu.edu/>; complete and submit the online application; and upload a cover letter that includes your teaching philosophy, a CV, and a list of academic and administrative references with contact information. More information: <https://jobs.gmu.edu/postings/36286>

The Hispanic Physicist. Published whenever there is news and the Editor has enough time. Send news, letters, congratulations, etc. to **Jorge A. López**, jorgelopez@utep.edu. <http://www.hispanicphysicists.org/>.