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The Hispanic Physicist

The Newsletter of the National Society of Hispanic Physicists

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

Year 23

October 12, 2020

Jorge Lopez honored with the 2020 HENAAC Award for Education

[Prof. Jorge Lopez](#), one of the founders of the NSHP, was among the 27 [recipients](#) named this past August 2020. The organization that created the award, [Great Minds in STEM](#), is a non-profit organization dedicated to promoting world-class contributions of Hispanic professionals. Two videos are available about the event: [here](#) and [here](#).

32ND HENAAC AWARDS WINNERS

2020 HENAAC Award Winners

Education Distinction
Jorge A. Lopez, Ph.D.
Schumaker Professor of Physics
Department of Physics
 University of Texas at El Paso

32nd Annual
GMiS
HENAAC AWARDS

Honor World-Class Excellence



Morgan State U. (Credit [APS](#))

Morgan State U. named APS Historic Site

The Historic Sites Initiative of the American Physical Society ([APS](#)) recognizes every year, physics-related events and sites.

This year the APS recognized the birthplace of the National Society of Black Physicists ([NSBP](#)), back in April 28, 1977.

You can read more [here](#).

Science

Article in Science Magazine

We invite our readership to explore the [article](#) from Christopher J. Shell *et al.*, titled “The ecological and evolutionary consequences of systemic racism in urban environments”. It appeared in the September 2020 issue of Science magazine, vol. 369, issue 6510. The authors discuss how inequities have an incidence in the ecological processes of cities and the welfare of their residents. They argue that in a broad sense, systematic inequities have profound impacts at a global scale regarding biological changes and biodiversity loss.



Nobel Prize of Physics 2020

In case you missed the news... no, you probably did not. Anyway, from the [Nobel Prize site](#):

The Nobel Prize in Physics 2020 was divided, one half awarded to Roger Penrose "for the discovery that black hole formation is a robust prediction of the general theory of relativity", the other half jointly to Reinhard Genzel and Andrea Ghez "for the discovery of a supermassive compact object at the centre of our galaxy."



Webinars for Physicists

[APS Webinars](#) offer interactive discussion, career guidance, and advice from fellow physicists. APS webinars require registration but are always free.



News at NSLS-II

Some of the [news](#) of the NSLS-II facility:

1. September-December 2020-2023 cycle operations
 2. Moving to remote experiments
 3. COVID-19 research at NSLS-II
 4. Leading Lights: NSLS-II user journeys
 5. [Industrial Workshop](#), December 14-17, 2020
-



Gateway to the Cosmos

The South Texas Astronomical Society (STARSociety) celebrated the International Astronomy Day, September 26th, 2020.

There is a two-hour [video](#) with talks from the participants.



SCIENCE & TECHNOLOGY ON A MISSION

LLNL Summer Programs for Students

At LLNL we have summer programs for undergrad and graduate students (I think we normally have in the neighborhood of 500-750/year). We try to use this as a recruitment tool for careers at the Lab and it's been pretty successful in that goal. For the past couple of years I've been involved in the High-Energy Density Physics program, but there are a wide variety of programs available: <https://st.llnl>.

The students are paid competitively and (in normal times) spend about 8-12 weeks at LLNL. This year we supported remote projects where possible and that's worked out pretty well. I anticipate that we will continue to offer remote internships until things return to normal.

Applications are normally due in the early part of the year, so now is a good time for students to begin to think about applying. I would be very happy indeed to talk to anyone who is interested in participating in these programs.



2020 SACNAS – The National Diversity in STEM Virtual Conference

October 19-24, [online!](#)

The largest multidisciplinary and multicultural STEM diversity event in the country, the SACNAS conference serves to equip, empower, and energize participants for their academic and professional paths in STEM.



Postdoctoral Opportunity at NSU

Norfolk State University's Department of Engineering is seeking a candidate for a Postdoctoral Research Scholar position to conduct research in the area of biophotonics. The focus of this research is on designing microfluidic devices to enable on-chip laser tweezers and traps and conducting surface enhanced Raman spectroscopy (SERS) for identifying breast cancer cells. Successful candidate is expected to develop and demonstrate new approaches of system integration to improve accuracy, efficiency, scalability, and automation of the optofluidic sensing platform and publish the findings in reputed journals and conference proceedings. The successful candidate will work in Computational Cardiac Engineering Lab at Norfolk State University in Norfolk Virginia, and will be expected to collaborate across disciplines to ensure successful completion of research tasks.

Please apply [online](#).



Fall 2021 Graduate Research Assistantship Opening

The Tropical Atmospheric Dynamics group at Iowa State University is seeking a bright and enthusiastic graduate student to begin Fall 2021 on a fully-funded, Graduate Research Assistantship. The potential student should have strong skills in applied mathematics and computer programming (FORTRAN, Python, NCL) with interests in numerical modeling of tropical storms, [the Inter-Tropical Convergence Zone](#), and more generally, Earth's climate system. Those from underrepresented groups are highly encouraged to apply.

The potential student will have opportunities to present their work at national conferences and to travel to Boulder, Colorado to work with collaborators at the [National Center for Atmospheric Research](#). The potential student will also have opportunities to help develop [hands-on science activities](#) for K–12 students in central Iowa.

For more information, contact Professor Alex Gonzalez at agon@iastate.edu.



JUMP into STEM Competition 2020-21

JUMP (**J**oin the discussion, **U**nveil innovation, **M**ake connections, **P**romote tech-to-market) into STEM is accepting applications for the 2020-21 competition!

College and university students are encouraged to participate in JUMP by forming a two- to four-person team to address current challenges in the building industry. Students can learn about a challenge topic and respond to it by developing a problem statement and a technical solution with a technology-to-market plan. Applicants must apply in Zintellect in the [Building Technologies internship opportunity](#) and upload a response to jumpintostem.org no later than **November 13**. Finalists will present solutions during a final competition and compete for a paid summer 2021 internship at Oak Ridge National Laboratory (ORNL) or the National Renewable Energy Laboratory (NREL).

2020-21 Challenges can be found online at [JUMP into STEM](#). Topics for this year's competition include:

1. Advanced Building Construction Methods
2. Grid-Interactive Efficient Buildings (GEB)
3. Building Energy Audits for Residential or Commercial Buildings

Co-led by ORNL and NREL with support from the Department of Energy's Building Technologies Office, JUMP is open to both undergraduate and graduate students currently enrolled at a U.S. college or university. The goal of JUMP is to attract a diverse group of innovative students to building science research and address some of the current challenges facing the industry. Diversity goals include encouraging participation from student groups who are underrepresented in **s**cience, **t**echnology, **e**ngineering, and **m**ath (STEM) as well as teams consisting of a broad variety of majors.



DOE SCGSR 2020 Solicitation 2

The Office of Science Graduate Student Research (SCGSR) program is now accepting applications for **2020 Solicitation 2**. **Applications** are due **5:00 pm** Eastern Time on Thursday, **November 12, 2020**.

Program details can be found at <https://science.osti.gov/wdts/>, and the SCGSR online application at <https://apps.orau.gov/SCGSR/>. Please help direct all inquiries to sc.scgsr@science.doe.gov.



GradCatalyst MIT

The MIT Office of Graduate Education, GradDiversity is currently seeking talented undergraduate students to participate in [MIT GradCatalyst; a student-led workshop and online tool that helps undergraduates plan their academic trajectories](#).

This interactive webinar provides participants with useful information for applying to and thriving in graduate school. Sessions are open to all students exploring the option of graduate education. Session topics include: Why Graduate School, The Graduate Application Process, Goal Setting, Applying for Summer Research Programs, and much more!

Join us for one of our following **webinars**:

Wednesday, October 21, 2020 at 5 PM EST

Thursday, November 12, 2020 at 12 PM EST

Please [sign up](#).



#BlackInMicro

Our Mission:

- Showcase the presence and accomplishments of Black microbiologists from around the globe.
- Connect Black microbiologists with one another and foster a sense of community among them.
- Provide a forum for the discussion of racial disparities in microbiology and its subfields.
- Amplify Black scientists in all fields, acknowledge the contributions to their disciplines and support the collective work of pursuing equity in academe, industry, government, and beyond.

You can find out more [here](#), and can register for the events.



2021 Regeneron Science Talent Search

We know that so much has changed for high school students due to the COVID-19 pandemic. The good news is that if the students in your life are staying at home this year, their research can, too – and it may still be eligible for the **2021 Regeneron Science Talent Search**, [now open](#) for **applications through Thursday, November 12, 2020 at 8pm ET**. Rising 12th grade students (living in the U.S. or U.S. citizens living abroad) may share research they have conducted in any year of high school to the nation's oldest and most prestigious STEM competition for the chance to win up to \$250,000!

As a member of an organization that shares the Society for Science & the Public's commitment to informing, educating and inspiring, you know great science when you see it, especially in the face of great challenges. The research project is one component of our holistic review, and we hope to reassure students that we accept research from any year of high school, across many disciplines. Learn more about the requirements [here](#), and read our statement on the impact of the COVID-19 pandemic on this year's competition at the bottom of the page. Spread the word using this [digital flyer](#) with the 12th grade students, teachers and other science educators in your network.

For more information please visit our [website](#).



PAESMEM Nominations and Applications Open

The [Presidential Awards for Excellence in Science, Mathematics and Engineering Mentoring](#) (PAESMEM) are excited to announce that nominations and applications for the 2020-2021 cycle are now being accepted! As a past PAESMEM recipient, your assistance in nominating candidates is a vital part of our goal to recognize exceptional mentoring.

To nominate an individual mentor or organization, complete the nomination form available on the [PAESMEM website](#). All you will need is the mentor's or organization's name, email address, and contact information for their employer (if nominating an individual). You are welcome to submit multiple nominations if you know more than one individual or organization deserving of the award. The **nomination deadline is December 18, 2020** and the **application deadline is January 24, 2021**.



First call for Cryo-EM proposals at LBML

The [Laboratory for BioMolecular Structure \(LBMS\)](#) at Brookhaven National Laboratory is now accepting general research proposals through an open proposal process.

This new, state-of-the-art research center offers scientists access to [advanced cryo-electron microscopes](#) (cryo-EMs) for single particle analysis of proteins and macromolecular complexes, as well as cryo-electron tomography (cryo-ET) of cells and tissues.

LBMS operates in two 6-month cycles and all electron microscope (EM) time is requested each cycle through the web-based [Proposal Allocation, Safety, and Scheduling System \(PASS\)](#) system. There are a number of modes of access for cryo-EMs at LBMS including General User, Rapid Access, and Block Allocation Groups that all follow a common life cycle that involves the following steps: proposal submission, feasibility evaluation, peer-review, allocation of EM time, scheduling, carrying out the work,

and reporting the results. To start, you need to identify the type of proposal, the technique, and the microscope that fits your needs. For more details, see the [LBMS User Guide](#).

Given the uncertainties with onsite EM operations for the January – June (2021-1) cycle, all proposals must provide a remote access plan.

The deadline for proposals for the 2021-1 cycle at LBMS is **Wednesday, September 30, 2020 at 11:59 pm New York time**. If you feel you may need help during the submission process, please create your proposal as early as possible. Please note the [User Services Office](#) will be available until 5:00 pm that day.

For instructions on how to submit proposals, see the [LBMS User Guide](#). For questions regarding the LBMS facility, please contact Ligu Wang at lbms-em@bnl.gov.



Argonne: Minorities in STEM Recruitment Conference

We hope you are doing well in the fall semester this year. Argonne National Laboratory appreciates the many strong ties we have formed with different schools, and we hope that students and faculty will be interested in our latest STEM education initiative.

We want to reach out and invite you and your students to the Laboratory's second annual *First Look@Argonne – A Minorities in STEM Recruitment Conference* on **Friday, October 23, 2020**. This year's conference will be conducted virtually. The day-long conference will provide you and students with the opportunity to:

- Learn about the Department of Energy (DOE) complex and Argonne's mission science research.
- Explore Argonne's campus virtually and get a front-row view of DOE research facilities.
- Network with Argonne researchers and engineers across the many different STEM disciplines.
- Learn about summer and year-round opportunities for students to get involved with STEM at the

Lab.

- Connect with current and past interns.
- Participate in career development seminars.

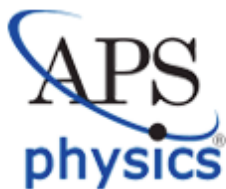
Consider participation in a tandem event, *Computing Across the Sciences Mini-Semester*, to further prepare students for an internship at a national laboratory.

Our goal for this conference is to show students the diverse STEM research and opportunities at Argonne and across the DOE laboratory complex, and the support we offer in navigating the summer internship application process.

The student applicants are required to:

- Be enrolled as a full-time student in a community college or four-year higher education institution in a STEM discipline.
- Have a cumulative minimum GPA of 3.0.
- Be at least 18 years of age.
- Be a United States citizen or Legal Permanent Resident.
- Identify as an underrepresented minority in STEM.

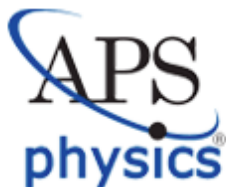
Please complete a [quick application](#) to register.



APS Wiki Scientist Course

Come and celebrate the last of Hispanic Heritage month with the APS Public Engagement Team. We will be hosting a Spanish Wikipedia edit-a-thon on Oct 15, 2020 from 12:30 to 4:30 pm ET.

You are welcome to drop in at any time to edit. If interested please sign up [here](#) or contact the APS Public Engagement Coordinator, Rose Villatoro, at villatoro@aps.org.



Physicists Coalition for Nuclear Threat Reduction

Next Generation Fellowship

The Physicists Coalition for Nuclear Threat Reduction, an initiative based at Princeton University's Program on Science and Global Security and supported by the American Physical Society (APS), seeks to mobilize a national network of physicists interested in being informed advocates to policymakers and to the public on the nuclear weapon threat and opportunities for its reduction.

To support this effort, the Coalition invites applications for its Next-Generation Fellowship, which aims to make more diverse and strengthen participation of graduate students, postdocs and early-career physicists and engineers in advancing nuclear weapons threat reduction.

To strengthen diversity and the inclusion of many viewpoints in the nuclear weapons policy field, the Coalition encourages applicants of every gender, race, ethnicity, religion, sexual orientation and socioeconomic background. There will be up to four Fellows for 2020-2021.

The one-year Coalition Fellowship offers Fellows opportunities including:

1. Partnering with a senior expert to give two talks on nuclear threat reduction at university physics departments, professional meetings, or a national laboratory
2. Partnering with a senior expert on research and writing of a policy memo on a current
3. nuclear weapons policy issue, which could be the basis for an article in the Bulletin of Atomic Scientists or similar publication
4. Training [1-2 days] in Washington DC or online in policy communication, advocacy, and scientist-community partnership building with APS and other non-governmental groups
5. Two trips [1-2 days each] to Washington DC for advocacy and outreach to Congress
6. Networking opportunities with key nuclear arms control policy and science advocacy groups
7. Participation in a 4-day Princeton Summer School on Science and Global Security
8. Eligibility for a \$5000 follow-on grant based on a proposal for continued

education and

9. work on nuclear threat reduction for a year upon successful completion of the Fellowship.

Travel and other expenses for participation in these activities will be funded by the Physicists Coalition. The Fellow's salary is expected to be covered by their home institution.

Applications should include:

- A CV and cover letter, including interest in policy or community engagement and a policy advocacy statement (no more 300 words) on a nuclear threat reduction measure – chosen from the following topics: a no-first-use policy, ending the launch-on-warning option, changes in the nuclear triad, the future of the New START (Strategic Arms Reduction) treaty or the Comprehensive Test Ban Treaty (CTBT), and limits on missile defense systems.
- A letter of recommendation.

Applications should be sent to Charlotte Selton at selton@aps.org. Applications will be reviewed on a rolling basis.

For more on the Physicists Coalition for Nuclear Threat Reduction: www.physicistscoalition.org.

Jobs

Please visit our Job Board (<http://www.hispanicphysicists.org/JobBoard.html>) to see more information about these and other opportunities.

Opportunity

Deadline

[Internship opportunities](#) at Idaho National Laboratory (INL), 2021.

Please see the link

[Opportunity](#) with the Department of Homeland Security (DHS) to maintain a database/website interface, at Washington, DC.

Please see the link

[The Hispanic Physicist](#). Published whenever there is news and the Editor has enough time. Send news, letters, congratulations, etc. to **Miguel Castro-Colin** (m.castrocolin@gmail.com).



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