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# The Hispanic Physicist

The Newsletter of the National Society of Hispanic Physicists

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

Year 23

September 5, 2020



*Prof. Sekazi Mtingwa (credit The African Physics Newsletter).*

## Sekazi Mtingwa interviewed by The African Physics Newsletter

Prof. Mtingwa was [interviewed](#) by Prof. Chetty, Dean of Science, U. of Witwatersrand, South Africa.

Sekazi was awarded the Presidential Mentoring Award in the US, 2019. He is also a council member of the [Edward Bouchet Abdus Salam Institute](#).

Sekazi talked about his career as mentor and his participation in building research infrastructure in the African continent.

Please read the full [interview](#).

**#ScholarStrike**



Professors from various universities will pause their administrative duties and classes September 8 and 9. The initiative was instantiated by [Prof. Anthea Butler](#), from U. of Pennsylvania School of Arts and Sciences.

The [#ScholarStrike](#) hashtag calls for a walk-out style event by members of the academic community to address racial violence and unjust policing.

You can read more [here](#).

*Prof. Butler, U. Penn (Credit [ReIS. SAS. UPenn](#).)*

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## 2020 ANS Winter Meeting

### November 16-19, 2020, Virtual Meeting

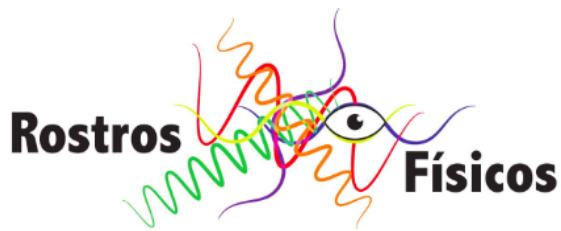
The [2020 ANS Winter Meeting](#) promises to be one of the year's most exciting and informative educational and networking events for attendees from every facet of nuclear science and technology.

In addition, the Technology Expo will give attendees a glimpse into the applications of new technology through three days of exhibits and special events. The Expo will also give attendees many opportunities to network with each other and establish new professional relationships while having food and fun in a friendly and informal setting.

The 2020 ANS Winter Meeting and Technology Expo is the premier North American nuclear science and technology conference. If you're interested in expanding your knowledge, sharing ideas, and networking in one of the world's most exciting entertainment destinations, don't miss this opportunity. Please join us

at the 2020 ANS Winter Meeting.

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## Rostros Físicos

[Rostros Físicos](#) es un proyecto audiovisual cuya meta es mostrar la profesión, los retos, y los éxitos de físicas y físicos de origen Hispano/Latino en todas las etapas de formación (estudiantes de pregrado, estudiantes posgrado, profesionales).

Rostros Físicos is a multimedia project that will use photos and videos to showcase the careers, challenges, and successes of Hispanic/Latin American physicists across all stages of the scientific career path.

If anyone is interested, please have them email [rostrosfisicos@gmail.com](mailto:rostrosfisicos@gmail.com). We are relying on student participation to create the best outreach materials we can, so we appreciate any help from your department!

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## 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.

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**Científico Latino**

Changing the next generation of STEM

## Graduate Student Mentorship Initiative (GSMI)

The spring 2019, we piloted our **GSMI** program with the mission to help underrepresented graduate school applicants by pairing them with STEM professionals in their respective STEM disciplines. We provided our applicants with graduate school preparation material, one-on-one guidance from a mentor in their STEM field, access to webinars, and mock interviews.

Our pilot initiative helped 77 students (90% of our 2019-20 cohort) matriculate into STEM graduate school programs, including Master's and PhD programs. Our applicants were accepted to graduate programs in Aerospace/Mechanical Engineering, Astronomy, Biomedical Engineering, Cell & Molecular Biology, Chemistry, Neuroscience, Oceanography, Physics, Psychology at several universities throughout the U.S. and some abroad!

Sign-ups for this year's GSMI program are closed. However, many of our [GSMI webinars are open to the public](#). Registration is open!

Follow us on our social media channels or [subscribe to our mailing list](#) to be notified when GSMI 2021 sign ups open next summer.

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## Research Scientist – Turbines, NETL

**Deadline:** 9/30/2020

Through the Oak Ridge Institute for Science and Education (ORISE), this posting seeks a graduate student or postgraduate to engage in projects with the Research and Innovation Center (RIC) at the National Energy Technology Laboratory.

The Penn State START (Steady Thermal Aero Research Turbine) project is designed to study turbine blade cooling approaches in a warm-flow experimental rig. The project focuses on innovating turbine cooling using true-scale engine hardware, developing sensors and instrumentation for smart turbines, advancing additive manufacturing for turbine applications, and integrating and embedding sensors through additive manufacturing. There is a need for Computational Fluid Dynamics (CFD) modeling of the turbine blade geometries used in the experiment to provide a better understanding of the experimental data.

**Program information:** Detailed information about the program can be found at <http://www.ora.gov/netl>. Please send a CV to Peter Strakey at [peter.strakey@netl.doe.gov](mailto:peter.strakey@netl.doe.gov).

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## BISO and USNC Webinars

### **Celebrating America's Geoheritage**

Tuesday, September 8<sup>th</sup>, 2020.

11:00 a.m. to 12:00 p.m.

via Zoom

<https://www.nationalacademies>.

### **NASEM-IIASA Webinar 2 of 3: The Science-Policy-Society Interface**

Monday, September 14<sup>th</sup>, 2020.

1:00 p.m. to 2:30 p.m.

via Zoom

<https://www.nationalacademies>.

### **A Survey of Geoheritage Initiatives in the U.S.**

Tuesday, September 15<sup>th</sup>, 2020.

11:00 a.m. to 12:00 p.m.

via Zoom

<https://www.nationalacademies>.

## Geoheritage Management on Federal Lands

Tuesday, September 22<sup>nd</sup>, 2020.

11:00 a.m. to 12:00 p.m.

via Zoom

<https://www.nationalacademies.>

## NASEM-IIASA Webinar 3 of 3: Science Diplomacy

Monday, September 28<sup>th</sup>, 2020.

1:00 p.m. to 2:30 p.m.

via Zoom

<https://www.nationalacademies.>

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## 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](http://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 science, technology, engineering, and math (STEM) as well as teams consisting of a broad variety of majors.

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## 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](mailto:sc.scgsr@science.doe.gov).

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## 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**:

Tuesday, September 29, 2020 at 2 PM EST

Wednesday, October 21, 2020 at 5 PM EST

Thursday, November 12, 2020 at 12 PM EST

Please [sign up](#).

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## DoD Small Business Innovation Research (SBIR) / Small Business Technology Transfer (STTR) Virtual Symposium

October 7, 2020

### About the DoD SBIR/STTR Virtual Symposium:

The DoD Small Business and Technology Partnerships (SBTP) will host its inaugural [DoD SBIR/STTR Virtual Symposium](#) on **Wednesday, October 7, 2020**. This event is designed to be a dynamic day enabling small businesses to learn more about the DoD SBIR/STTR programs and interact with program leadership. The collaborative day will include keynote speeches from government leaders, industry prospective stories, panel discussions, and a question and answer session.

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## 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 12<sup>th</sup> 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 12<sup>th</sup> grade students, teachers and other science educators in your network.

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

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## 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**.

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## 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](mailto:lbms-em@bnl.gov).



## Laboratory Director, CEO and President, Battelle Energy Alliance, LLC

Idaho National Laboratory (INL) is seeking an accomplished and dynamic leader to serve as its next laboratory director and president.

The Lab Director oversees a diverse, complex, and technical organization that strives for excellence and leads the nation in nuclear energy, critical infrastructure protection and energy system research and development. Because of this, he or she must possess keen business acumen, high standards, persistence, and practical leadership and management skills.

The Lab Director must have intimate knowledge of industry and technology end users and the hazards and risks associated with nuclear materials, and the ability to negotiate the political landscape, and work effectively with DOE, partners, collaborators, and other stakeholders. These essential qualities will help position INL as the intellectual leader in nuclear energy research and development.

Reporting directly to the Battelle Executive Vice President for Global Laboratory Operations, the Laboratory Director will create, inspire, and guide the organization’s vision.

For more information please contact Trevor Budge, 208-716-9614, [trevor.budge@inl.gov](mailto:trevor.budge@inl.gov).

Apply [here](#).

## Jobs

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

### Opportunity

### Deadline

[The Energy Storage and Advanced Transportation Department](#) at Idaho National Laboratory (INL) is searching for individuals to join its data analytics team.

Please see the link

[Postdoctoral Research Associate](#) in the Quantum Biology Laboratory, Howard

Please see the link

University, Washington, DC. For info please contact [quantumbiolab@howard.edu](mailto:quantumbiolab@howard.edu).

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**[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](mailto:m.castrocolin@gmail.com)).

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

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