Mason SCIENCE

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Wednesday, February 2, 2022 **science.gmu.edu**

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A message from the Dean

FERNANDO R. MIRALLES-WILHELM

Bright future for Mason Science research

by Fernando Miralles-Wilhelm

As George Mason University begins the celebration of a milestone anniversary this spring, one can't help but look back at the significant research investments we've taken and milestones achieved to get us where we are. We begin to understand what this strong foundation of visionary science, supportive mentorship, and significant investment means for Mason researchers and our partners as our early career scientists continue to distinguish themselves in their respective fields.

Mason received the elite Carnegie Research 1 (R-1) university designation in 2016. As the youngest university on that list, it meant the world-class research, scholarship, and creative work conducted by our faculty and students is recognized by peers and stakeholders across the nation and around the world. An institutional commitment to research across disciplines propelled us to our status as a top research university and America's fastest growing public university research portfolio.

Read about our researchers' successes

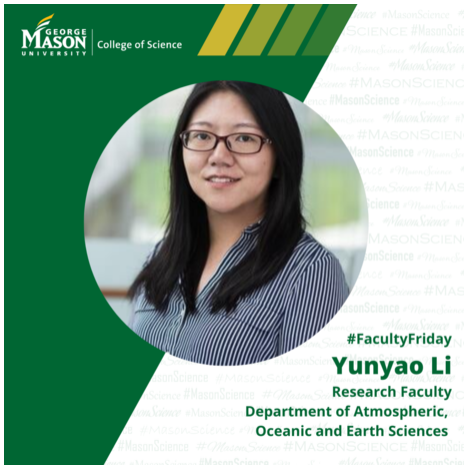
MASON SCIENCE COMMUNITY

Mason Science Trailblazer: Charles L. Bailey

by Tracy Mason

Charles (Charlie) Bailey retired effective February 1, 2022, having experienced an illustrious career as a visionary biodefense researcher and scientific trailblazer for George Mason University. Bailey's vision and expertise led to one of his most notable contributions to Mason's current biomedical research prowess, the biomedical research laboratory, or BSL-3 at Mason's SciTech campus in Manassas, VA. *Photo provided.*

More on his impact



#FacultyFriday highlights AOES research scientist

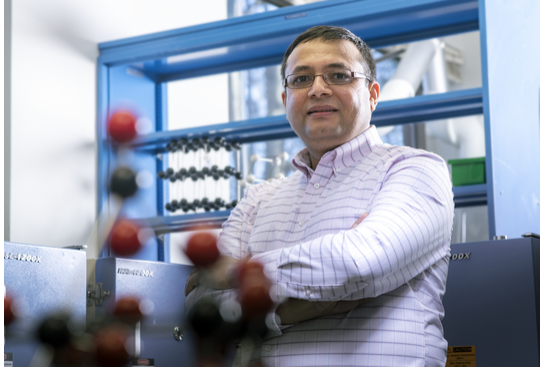
To kick off this month's Department of Atmospheric, Oceanic, and Earth Sciences spotlight, this #FacultyFriday features Yunyao Li, Research Scientist, AOES and Center for Spatial Information Science and Systems (CSISS). Since joining #MasonScience, she has worked alongside Daniel Tong, Associate Professor, AOES, on biomass burning emission and air quality modeling. Li led the charge of developing the wildfire ensemble forecasting system and the Mason daily air quality forecast system. Currently, she conducts research on evaluating and simulating the impact of wildfires on air quality and human health.

Read Li's bio

RESEARCH & DISCOVERY

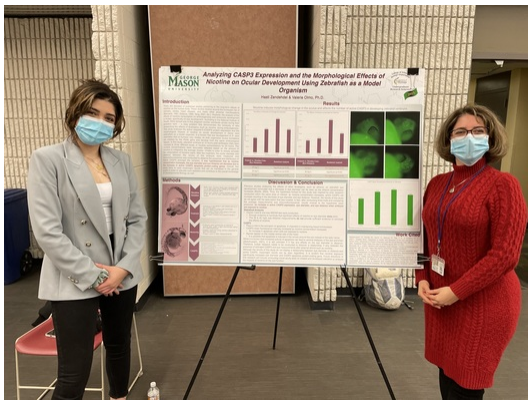
Materials Science “Spin Doctor” NSF award could lead to faster, more energy efficient devices

by John Hollis



Nirmal Jeevi Ghimire, Assistant Professor, Physics and Astronomy, has been awarded a National Science Foundation CAREER Award and received more than $560,000 in grant money for his research into the design of materials for magnetic and electronic topological properties that can pave the way to thinner, faster and more energy-efficient devices. *Photo by Evan Cantwell/Creative Services.*

More on his research



Biology Research Semester gets undergraduate students back in the labs

by Colleen Kearney Rich

It looked like 2019, except for the masks. In December 2021, before the close of the fall semester, George Mason University students participating in the College of Science’s Biology Undergraduate Research Semester presented their research in the Hub Ballroom. Geraldine Grant, Chair, Biology, said the semester really gives the students a chance to immerse themselves in research, expand their horizons and put their academic knowledge to work in the real world of research. *Photo by of Tracy Mason/Mason Science.*

Read about their experience

IN THE NEWS

Seshaiyer turning math haters into lovers at SciFest

by Innovation & Tech Today

Padmanabhan Seshaiyer, Professor, Mathematical Sciences, recently participated in SciFest All Access 2022, which offers attendees an opportunity for hands-on interactive STEM content. Seshaiyer's goal is to not only help individuals enjoy the

subject, but also get those who struggle with math to succeed.

Read full article

Happening at Mason

President Washington announces COVID next steps

At the approach of the two-year anniversary of COVID-19's arrival, Mason is seeing light at the end of this very long tunnel, President Washington said Monday. *Photo by Evan Cantwell/Creative Services.*

Learn about next steps at Mason

Events

Climate Dynamics Seminar
February 3, 2022 | 10 to 11 a.m. | Research Hall 163
Join Andrew Hoell, NOAA Physical Sciences Laboratory for a lecture on "Earth System Predictability Research and Assessments to Support Climate Services."

College of Science Faculty Meeting
February 3, 2022 | Noon to 1 p.m. | Virtual
Refer to your email for meeting link.

CMAI Colloquium by Professor Barbara Kaltenbacher
February 4, 2022 | 10 a.m. | Zoom

Join Professor Kaltenbacher from the University of Klagenfurt, Austria, for a lecture on "Reduced, all-at-once, and variational formulations of inverse problems and their iterative solution."

Remembrance gathering: Anna Wyczalkowski

February 4, 2022 | Noon to 1 p.m. | Exploratory Hall, 3301

With profound sadness, we announce the sudden passing of Anna Wyczalkowski on December 30, 2021. The Department of Physics and Astronomy will host an event to commemorate her passing.

Mason Vision Series

February 7, 2022 | 7 to 8:15 p.m.

Join Hakeem Oluseyi, Astrophysicist, Visiting Robinson Professor for his lecture "Hack the Stars." Registration required.

See Full Calendar

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