



Institute for a Sustainable Earth



ISE NEWSLETTER

June 21, 2022

## Upcoming ISE Events

### Virtual Listening Session: Indigenous Participation in NASA-PACE Satellite Mission

Thursday, June 23, 2022, 12:00-1:30 pm EDT

[Registration](#)

Please join us for this educational and interactive listening session focused on getting feedback from Tribal and Indigenous communities on a new NASA satellite mission. Learn about NASA-PACE (Plankton, Aerosol, Cloud, Ocean Ecosystem) mission and how this technology can help Tribes in their environmental management work. PACE will enter service next year as “the next generation climate science satellite,” and Tribal nations can help shape how cutting-edge earth systems data reaches end users and decision-makers.

This virtual event is a collaboration between the [Institute for Tribal Environmental Professionals \(ITEP\)](#), the [Institute for a Sustainable Earth at George Mason University](#), and the [NASA-PACE Program](#).

Please Register in Advance: <https://nau.zoom.us/meeting/register/tZEuf-CqrjgqE9NGdul481OovqTvmGy17GTp>



# Virtual Listening Session for Tribes

Join us to learn more about NASA-PACE Mission & Provide Feedback on Tribal Data Needs

## Thursday, June 23

9:00-10:30am (Pacific & MST)  
12:00-1:30pm (Eastern)

[Click here to Register](#)



Learn more about [NASA-PACE Mission](#)

## Announcements

### WATER Seminars

WATER (Watershed and Aquatic Teams for Education and Research) at Mason, an ISE 2021 Mason 17 Rooms-U Seed Funding Award recipient, is hosting three upcoming seminars as a part of its 2022 Summer Seminar Series, which will be held both hybrid and in-person. The upcoming WATER seminars will feature:

- **Jake Sobin**, Sales Manager, Ocean Science, Sensors and Robotics, Kongsberg Underwater Technology, LLC. Mr. Sobin will discuss "A History of Marine Robotics from Kongsberg Maritime: 25 Years of World Class Solutions".
- **Phillip Musegass**, Vice President of Programs and Litigation, Potomac Riverkeeper Network. Mr. Musegass will discuss "Restoring the Nation's River".
- **Dr. Fernando Miralles**, Professor and Dean of the College of Science at George Mason University. Dr. Miralles will discuss "Modeling Coupled Hydrology - Vegetation Dynamics in Aquatic Ecosystems: What Nature Can Teach Us about Living with Stress and on a Budget".

### 25Live Guide – Feature Your Sustainability Events

The Office of University Events, the Institute for a Sustainable Earth, and the Office of Sustainability collaborated to develop this 25Live Guide to increase the visibility of and engagement with your sustainability-focused events at Mason. 25Live is Mason's institution-wide event and academic scheduling system which dovetails with unit calendars such as Today@Mason. Please use this 25Live Guide to ensure your sustainability-focused events,

whether they are in-person or virtual, are featured on Today @ Mason and through ISE and the Office of Sustainability.

## ISE Faculty Profiles

The [ISE faculty directory](#) is a tool for you to find others with complementing expertise and for external and internal audiences to find you! If you haven't yet submitted your research profile information for the directory, **please complete your profile [here](#)**.

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## Upcoming Mason Events



# The Interconnectedness of Resilience and Emergency Management: A STAR-TIDES Fireside Chat with Tonya Thornton, PhD

Wednesday, June 22nd, 2022

2:00-2:50 pm EDT



**Tonya Thornton, PhD**  
Principal, Delta Point  
Solutions

Register at:

<https://go.gmu.edu/FChat5>



This event is produced in collaboration  
with the Silicon Valley Forum



Moderated by:  
Aaron Rose  
Founder, Global Tactics

@star\_tides

[www.star-tides.net](http://www.star-tides.net)

#STARTIDES

— AITI-TRACCC —

# S4D WORKING GROUP KLEPTOCRACY AND ILLICIT FINANCE

**SAVE THE DATE**

AITI-TraCCC is excited to launch its S4D Working Group on Kleptocracy and Illicit Finance - a civil society-driven dialogue to fight corruption and money laundering to defend democracy against authoritarianism, confront hubs of illicit trade, and safeguard human rights and security.



# JUNE 28 | 12PM EDT

**Register: <https://bit.ly/394CwHH>**

For questions please contact David Luna ([luna.david.m.usa@gmail.com](mailto:luna.david.m.usa@gmail.com)) and Layla Hashemi ([lhashem2@gmu.edu](mailto:lhashem2@gmu.edu)). Details on previous event including video and final report: <https://bit.ly/3mubIDL>

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[WWW.TRACCC.GMU.EDU](http://WWW.TRACCC.GMU.EDU)

## Climanomics Climate Risk Analytics

Thursday, June 30, 2022, 1:30 PM

C-RASC will be hosting a Virtual Seminar via Zoom with S&P Global Sustainable1 on Thursday, June 30, 2022 at 1:30 PM EDT. C-RASC Students, Faculty, and Researchers are welcome and encouraged to attend.

Climate change will transform our planet, with some geographies at greater risk than others. The U.S. has sustained 298 weather and climate disasters since 1980, exceeding \$1.975 trillion. The body of climate science and data is vast and overwhelming, and companies and researchers need expertise to comprehend and apply it. At The Climate Service, now a part of S&P Global, our team of climate experts and data scientists have built an easy-to-use,

science-backed climate risk analytics platform that helps you identify and measure the climate risks to assets. Results are provided in decision-useful financial terms; provided by asset, company, and portfolio level insights; and by decade out to 2100. contexts outside Haiti.

Zoom Link: Please email [crasc@gmu.edu](mailto:crasc@gmu.edu) for Zoom link and calendar invite.

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## In the News

- [Mason's Impact Fellows Program allows students to combine business and sustainability interests](#), School of Business News, June 15, 2022.
- [Bee vision: Shedding light on a conservation challenge](#), Research News, June 14, 2022.
- [Students in forensic figure sculpting class make portraits from the inside out](#), The George News, June 7, 2022.
- [How the Baby Formula Shortage Disproportionally Affects Black and Low-Income Babies](#), College of Health and Human Services News, June 3, 2022.

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## Funding Opportunities

### **NEW:** NOT-ES-22-006: Notice of Special Interest: Climate Change and Health

This NOSI will encourage research applications that address the impact of climate change on health and well-being over the life course, including the health implications of climate change in the United States and globally.

- First Available Due Date: July 08, 2022
- Expiration Date: May 08, 2025

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### **NEW:** RFA-ES-22-003: Research Coordinating Center to Support Climate Change and Health Community of Practice

RFA-ES-22-003: Research Coordinating Center for the Climate Change and Health Community of Practice (U24 – Clinical Trial Not Allowed) The Research Coordinating Center (RCC) will support the development of an inclusive Community of Practice (COP) of climate change and health researchers and trainees that fosters collaboration, capacity building, innovation, and research.

- Open Date & Letter of Intent: July 25, 2022
  - Application Due: August 25, 2022
  - Earliest Start Date: March 2023
  - Information Session for Potential Applicants: June 17, from 1:00pm-3:00pm ET.  
[Register here](#)
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## **NEW: NOSI ES-22-009: STTR Innovative Technologies for Research on Climate Change and Human Health**

NOSI to develop or adapt practical technologies for capturing the effects of climate change and extreme weather events on human health and to reduce the health threats posed by climate change across the lifespan.

- First Available Due Date: September 5, 2022
  - Expiration Date: April 6, 2023
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## **NEW: NOSI ES-22-010: SBIR Innovative Technologies for Research on Climate Change and Human Health**

NOSI to develop or adapt practical technologies for capturing the effects of climate change and extreme weather events on human health and to reduce the health threats posed by climate change across the lifespan.

- First Available Due Date: September 5, 2022
  - Expiration Date: April 6, 2023
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## **NEW: Sentara Fall Grant Cycle**

Sentara is focused on supporting organizations and projects that address prominent social determinants of health factors and that promote health equity by eliminating traditional barriers to health and human services. While we will consider proposals that fall outside of the following focus areas, we strongly encourage proposals that align with one or more of the following priorities:

- Housing
- Skilled Careers
- Food Security

- Behavioral Health
- Community Engagement

Our goal is to create sustainable community partnerships around Social determinants of health, specifically housing, food security, behavioral health services, skilled career training, and equitable access to care and we know we are better together (or we cannot do this work alone)

Our [Fall grant application](#) is now open, and we encourage you to watch our technical grant support webinar below, so you are informed and prepared to apply.

- **Application Deadline: July 15, 2022.**
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## **NEW: Call for Proposals: Integrated Approaches to Human Migration/Mobility**

The Future Earth US Global Hub is pleased to announce available funding for researchers and stakeholders from countries in Southeast Asia, the Pacific Islands, and Latin America and the Caribbean in the [Belmont Forum Collaborative Research Action on Integrated Approaches to Human Migration and Mobility in an Era of Rapid Global Change](#). A list of countries eligible for Future Earth support can be found in the [Future Earth annex](#) on the Migration2022 call website. These funds will help support these participants to join international, transdisciplinary consortia to address at least two of three areas of migration and mobility research: synthesizing; integrating; and supplementing data and models.

Proposals for this competition are due 29 July 2022 by 20:00 UTC in the Belmont Forum grant operations portal (BFgo). Each proposing team should have a minimum of three participants from three different countries able to draw on support from three of the annexes in the Migration2022 support table. The teams must include researchers from (1) social sciences, humanities, or economics and (2) natural or physical sciences, working on a co-developed and co-implemented project together with (3) societal partners or stakeholders.

You can find more information about proposal requirements tutorials on transdisciplinarity, data and digital object management, and how to navigate the [BFgo](#) system on the [Belmont Forum YouTube Channel](#). Please e-mail the contact point in the [Future Earth annex](#) with any further questions. Good luck to all proposers!

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## **NEW: OJP FY2022 Solicitations: Strengthen public safety, prevent gun violence, and increase community trust**

This year, the Office of Justice Programs is making significant resources available to reduce violence, including \$50 million in new grant funding to support street outreach initiatives, group call-in programs, hospital-based trauma interventions, and other Community Violence Intervention (CVI) strategies designed to reach those most at risk of committing or experiencing

violence. A companion solicitation from OJP's National Institute of Justice is also available to support research and evaluation of CVI programs. We are also inviting communities to take advantage of funding opportunities designed to strengthen the bonds of trust within communities while ensuring public safety.

Please click here for more information, and click on the links below to check out OJP's other solicitations focused on:

- [Countering the rise in hate crime through support for communities, law enforcement, criminal justice agencies, and collaborative efforts](#)
  - [Providing diversion and treatment for people with behavioral health disorders](#)
  - [Ensuring rights, access, and equity for all victims of crime](#)
  - [Investing in juvenile justice programs and reducing disparities in the juvenile justice system](#)
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## **FY22 Scale-Up of Integrated Biorefineries and Greenhouse Gas Reduction in First-Generation Ethanol Production (Scale-Up+) Department of Energy**

[DOE's Bioenergy Technologies Office](#) (BETO) develops technologies that convert domestic biomass and waste resources into biofuels, bioproducts, and power to enable affordable energy, economic growth, and innovation in renewable energy and chemicals production. This FOA supports high-impact technology RD&D to accelerate the bioeconomy and, in particular, the production of low-carbon biofuels for the aviation, marine, rail, and long-haul trucking industries. BETO is focusing on applied RD&D to improve the performance and reduce cost of biofuel production technologies and scale-up production systems in partnership with industry. By reducing cost and technical risk, BETO can help pave the way for industry to deploy commercial-scale integrated biorefineries and reduce greenhouse gas emissions from hard-to-decarbonize sectors, such as the aviation industry.

Interested parties are directed to visit the Energy Efficiency and Renewable Energy's eXCHANGE system [here](#) for the full Funding Opportunity Announcement DE-FOA-0002638. An informational webinar will be held on June 15th, 2022 at 3:00 PM ET. Please note, there are no particular advantages or disadvantages to the application evaluation process with respect to participating in the webinar. Your participation is completely voluntary. Use [this](#) link to access the webinar, registration will not be required.

- **Required Concept Paper Due Date:** July 8, 2022 at 5 PM ET
  - **Full Application Due Date:** September 9, 2022 at 5 PM ET
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## **Joint DMS/NIGMS Initiative to Support Research at the Interface of the Biological and Mathematical Sciences National Science Foundation**



The Division of Mathematical Sciences (DMS) in the Directorate for Mathematical and Physical Sciences (MPS) at the National Science Foundation (NSF) and the National Institute of General Medical Sciences (NIGMS) at the National Institutes of Health (NIH) plan to support fundamental research in mathematics and statistics necessary to answer questions in the biological and biomedical sciences. Both agencies recognize the need to promote research at the interface between mathematical and life sciences. This program is designed to encourage new collaborations, as well as to support innovative activities by existing teams. [The joint DMS/NIGMS initiative](#) offers two submission tracks: Track 1 - for projects with a total budget of up to \$600,000 for an award duration of 3 years, and Track 2 - for projects with a total budget of up to \$1,200,000 for an award duration of 3-4 years.

Closing Date for Applications: Sep 19, 2022

- **Estimated Total Program Funding:** \$5,000,000
- **Award Ceiling:** \$1,200,000

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## Dear Colleague Letter: Design for Sustainability in Computing

This recently issued Dear Colleague Letter ([NSF 2022-60](#)) **Design for Sustainability in Computing** encourages the submission of novel and high impact proposals that advance sustainability in all aspects of computing to the [CISE Core programs](#) (NSF 21-616). The DCL invites transformative, cross-disciplinary and potentially clean slate approaches to enable sustainability across all levels of the entire computing stack from hardware to networking to software applications. Proposals should consider diverse notions of sustainability and propose suitable metrics for quantifying impact. Traditional energy efficiency and power savings methods alone are not in scope for this DCL. Computing techniques for sustainability in other fields are not in scope for this DCL. This DCL seeks ambitious and forward-thinking proposals on Design for Sustainability in Computing along multiple dimensions that go beyond energy efficiency.

This DCL neither constitutes a new competition nor a new program. Rather, interested proposers should prepare and submit proposals in accordance with the instructions in the CISE Core program solicitation ([NSF 21-616](#)) and the [NSF Proposal & Award Policies & Procedures Guide](#) (PAPPG). Additionally, to call attention to responsiveness to this DCL, the Project Summary should include "SustainabilityDCL" in the keyword list. **Proposals submitted to this DCL will count towards the proposal limits imposed in the CISE Core program solicitation.**

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## ORAU-Directed Research and Development (ODRD) Program Call for Proposals

[Directed Research and Development \(ODRD\) program](#) is a research and development program that supports collaborations between Oak Ridge Associated Universities researchers and faculty at member universities. George Mason University is a member of [Oak Ridge Associated Universities \(ORAU\)](#) and this funding opportunity is only open to the ORAU members. Led by ORAU subject matter experts and leveraging the talents and expertise of member universities, ODRD projects strengthen and expand the scientific and technical capabilities of both parties.

The FY23 research areas are *Climate and Environment, Health Equity, and Future of the STEM Workforce*. Proposals are due in June 2022, and must be submitted by ORAU staff. Awards are made in August. Projects run October 1 – September 30.

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## Partnerships for Innovation

The [Partnerships for Innovation \(PFI\) Program](#) within the Division of Industrial Innovation and Partnerships (IIP) offers researchers from all disciplines of science and engineering funded by NSF the opportunity to perform translational research and technology development, catalyze partnerships and accelerate the transition of discoveries from the laboratory to the marketplace for societal benefit.

- **Funding source:** National Science Foundation
  - **Anticipated funding amount:** Up to \$550,000
  - **Deadline:** July 13, 2022
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## NSF Critical Aspects of Sustainability (CAS): Innovative Solutions to Climate Change

This [Dear Colleague Letter \(DCL\)](#) encourages the science and engineering communities to develop forward-thinking research that will demonstrably aid in the Nation's goal of reaching net-zero greenhouse gas emissions and developing approaches for adapting to the change that is already occurring. CAS: Innovative Solutions to Climate Change is a call to action that encourages the submission of certain types of proposals to appropriate existing NSF core programs to lay the foundation for disciplinary and interdisciplinary research and to answer fundamental questions related to novel approaches and solutions to climate change.

- **Funding source:** National Science Foundation
  - **Anticipated funding amount:** Up to \$100,000
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[The Institute for a Sustainable Earth \(ISE\)](#) aims to connect members of the Mason community with others across the Mason community—and with other communities, policy-makers, businesses and organizations—so that, together, we can more effectively address the world's pressing sustainability and resilience challenges.

[The ISE Newsletter](#) provides up-to-date information on conferences, funding opportunities, and research pertaining to environmental science and sustainability. The biweekly newsletter aims to facilitate information sharing among researchers, practitioners, and relevant local, national, and international organization.

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