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We are pleased to share with you updates and opportunities in the field of environmental science, technology, and policy. The ISE Newsletter provides up-to-date information on conferences, funding opportunities, and developments in implementation science that can strengthen institutional capacity to enhance sustainability research and policy.

The Symposium will convene key stakeholders to explore the skills, knowledge, and attitudes needed to address the complex challenges of today's world. The focus of this symposium is on capacity for the water sector, including the development of sustainable practices. The African Development Bank, UN Habitat, and other development partners are preparing the 6th Global Symposium on Soil Biodiversity, which will be held in Rome, Italy on March 10-12, 2020. The Symposium will bring together researchers, practitioners, and policymakers to discuss the latest developments in soil biodiversity science and management.

The Environmental Engineering Program at George Mason University is seeking applicants for the DEB (Domestic Environmental Bridges) initiatives, which aims to bridge gaps between the chemical process, transport phenomena, bioengineering, and environmental and sustainability research communities such that unanticipated solutions may arise. The program encourages interdisciplinary proposals that cross conceptual boundaries and include multiple program areas (e.g., Advanced Scientific Computing Research, Basic Energy Sciences, and the Office of Science Financial Assistance Program). The goal is to support research that applies scientific and engineering principles to develop new processes, materials, and devices from a systems-level perspective.

The National Oceanic & Atmospheric Administration (NOAA) Marine Debris Program (MDP) is seeking applicants for the Marine Debris Fellowships Program, which provides an immersion experience working with NOAA researchers and institutions. The fellowship is designed to allow Fellows to explore the relationships between marine debris and other issues, such as climate change, ocean acidification, and marine conservation. The fellowship provides a hands-on opportunity to explore relationships between marine debris and other issues, such as climate change, ocean acidification, and marine conservation. The fellowship is open to applicants from a variety of disciplines and backgrounds, including science, engineering, policy, and management.

The U.S. Department of Agriculture (USDA) Office of Research and Development is providing funding for research in the areas of Long-Term Ecological Research and Food Security. The Long-Term Ecological Research program is designed to support research that is focused on understanding the interactions between soil biodiversity and ecosystem processes over long time frames. The Food Security program is focused on supporting research that can help to increase food production and reduce food insecurity in developing countries. The funding opportunities are available through grants.gov, and interested applicants are encouraged to submit proposals before the deadlines.

Other Upcoming Events:
- **SDSN USA Symposium**
  - Date: January 23-24, 2020
  - Location: Delft, Netherlands
  - Description: The meeting will be co-hosted by SDSN USA and the Institute for a Sustainable Earth at Mason. It will bring together policymakers, researchers, and stakeholders to discuss the implementation of the UN Sustainable Development Goals and to explore new partnerships and collaborations.

- **Other Upcoming Events**
  - Date: February 29, 2020
  - Location: Rome, Italy
  - Description: The course will be offered in the Spring Semester, Thursdays, 4:30pm-6:30pm. The course will cover topics such as the history of human interactions with water, the role of water in human health and nutrition, and the importance of water in economic development. Interested students are encouraged to contact Dr. Padhu Seshaiyer for more information.

Funding Opportunities:
- **Research on Marine Debris**
  - Funding source: NOAA Marine Debris Program
  - Deadline: January 15, 2020
  - Amount: $150,000
  - Contact: Penny Douglas, 202-253-0504

- **Funding for Research in Long-Term Ecological Research**
  - Funding source: Office of Science, Department of Energy
  - Deadline: December 31, 2019
  - Amount: $7,126,200
  - Contact: Douglas J. Levey, 202-633-7040

- **Funding for Research in Food Security**
  - Funding source: National Science Foundation
  - Deadline: December 4, 2019
  - Amount: $100,000,000 for new awards each year pending availability of funds
  - Award: 120 awards each year
  - Contact: Karl Rockne, 202-314-6641

- **Funding for Research in Problem Solving & Leadership in STEM**
  - Funding source: National Science Foundation
  - Deadline: February 29, 2020
  - Amount: $10,000,000 for new awards each year pending availability of funds
  - Award: 120 awards each year
  - Contact: Dr. Padhu Seshaiyer, 202-314-6641

- **Funding for Research in Water Risk Management and City Resilience**
  - Funding source: National Science Foundation
  - Deadline: November 30, 2019
  - Amount: $100,000,000 for new awards each year pending availability of funds
  - Award: 120 awards each year
  - Contact: Douglas J. Levey, 202-633-7040

- **Funding for Research in Environmental Engineering**
  - Funding source: Office of Science, Department of Energy
  - Deadline: June 30, 2020
  - Amount: $150,000
  - Contact: Karl Rockne, 202-314-6641

- **Funding for Research in Energy Efficiency and Renewable Energy**
  - Funding source: National Science Foundation
  - Deadline: March 1, 2020
  - Amount: $100,000,000 for new awards each year pending availability of funds
  - Award: 120 awards each year
  - Contact: Dr. Padhu Seshaiyer, 202-314-6641

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