The ISE Newsletter provides up-to-date information on conferences, funding opportunities, and pressing sustainability and resilience challenges. The newsletter aims to facilitate information sharing among researchers, practitioners, and relevant local, national, and international organizations.

The newsletter highlights recent developments in the following areas:

1. **Coastlines and People**
   - **Aims:** Aims of such pilot projects can include, but are not limited to, broadening participation goals. The objective of this solicitation is to support Coastal Research Hubs, structured using a convergent science approach, at the nexus between coastal ecosystems, human activities, and communities.
   - **Funding:** 8 to 10 awards per track, up to $29,500,000 each, with planning grants not exceeding $10,000 and full awards up to four years in length.
   - **Contact:** Karl J. Rockne, Program Director, Office of Cyberinfrastructure.
   - **Deadline:** November 4, 2020.
   - **Location:** Virtual.

2. **AI for Earth Innovation**
   - **Aims:** This funding opportunity will support application-specific projects that address real-world societal and environmental challenges. Aims include using AI to identify patterns and insights within large and varied data sets; improving the speed, accuracy, and accessibility of data; and data fusion, integration, and interoperability.
   - **Funding:** Up to $50,000 for four months for pre-development activities.
   - **Contact:** Clifford Cosgrove, Program Director.
   - **Deadline:** June 30, 2020.
   - **Location:** Virtual.

3. **Research Support for FDA’s Youth Tobacco Education Campaigns**
   - **Aims:** This opportunity seeks to invest in social innovations that aim to improve the lives of youth and young adults by supporting communities in preventing youth from using tobacco products.
   - **Funding:** Up to $20,000 for one year.
   - **Contact:** Danielle Rudes, Academic Administration.
   - **Deadline:** October 1, 2020.
   - **Location:** Virtual.

4. **Database: Preserving and Presenting Ancient Data For Future**
   - **Aims:** This database will support the development and maintenance of an online, accessible, and scalable repository of data and metadata generated by the initiation and operation of the Integrated Data Innovation Hub important for future studies. The database will preserve and present multiple project datasets.
   - **Funding:** Up to $10,000.
   - **Contact:** Fatah Kashanchi, College of Science.
   - **Deadline:** September 15-17, 2020.
   - **Location:** Virtual.

5. **Research that identifies biological, chemical, and/or physical reaction mechanisms for per- and polyfluoroalkyl substance (PFAS) degradation in natural environments**
   - **Aims:** This research aims to develop models and tools to identify, characterize, and understand the mechanisms of reaction that can reduce the concentration of PFAS in natural environments.
   - **Funding:** Up to $10,000,000.
   - **Contact:** Jamie Barlow, et al., National Science Foundation.
   - **Deadline:** July 22, 2020.
   - **Location:** Virtual.

6. **Improving the applicability of GBBEPx system**
   - **Aims:**This research seeks to improve the applicability of the GBBEPx system by developing and implementing new techniques for smoke forecasting, data fusion, and means of assuring data trustworthiness.
   - **Funding:** Up to $10,000.
   - **Contact:** F. Johannes Van Oevelen, College of Science.
   - **Deadline:** July 22, 2020.
   - **Location:** Virtual.

The newsletter also includes announcements of upcoming events and workshops, such as the Mason Online Workshop – Data Science and AI for Earth Innovation 2020, facilitated by F. Johannes Van Oevelen, College of Science, and Paula Sorrell, Associate Vice President for Innovation and Economic Development. The workshop will be held from 9am to 12pm on Tuesday, June 23, 2020.