

Superfund Research Program *e-Posted Notes*

March 5, 2021 (Issue 206)

HEADLINES

SRP External Use Cases Workshop and Trainee “Hacky” Hour

SRP hosted a meeting on February 18 and 19 for data science supplement External Use Cases (EUCs) to share details and lessons learned about the advancements made towards data interoperability using SRP data sets. In addition to SRP grantees and trainees, members of the NIEHS Office of Data Science were in attendance. During the workshop, EUC members shared experiences and successes from their projects and partnerships. They also made recommendations for best practices and needs for data management, sharing, and integration strategies.

An EUC Trainee “Hacky” Hour preceded the workshop on February 17. During this event, trainees introduced themselves and shared their EUC experiences.

This event was attended by over 140 people who contributed to rich discussions throughout the workshop. A special thank you to all participants and presenters for making this event a success!

KC Donnelly Externship Applications Due April 1

A Notice of Special Interest (NOSI) for the KC Donnelly Externship has been published in the NIH Guide. Please refer to the NOSI ([NOT-ES-21-005](#)) to see the changes to the application submission process and other slight changes to what is included in the application. The supplement applications are **due April 1**.

The KC Donnelly Externship Award Supplements provide current SRP-funded graduate (master’s or Ph.D.) students and postdoctoral researchers with translational and transdisciplinary opportunities to travel to and collaborate with other SRP grantees, government laboratories (e.g., EPA, ATSDR, NIEHS), or other agencies (state, local, Tribal). To see what projects have been pursued in the past, please visit the [SRP KC Donnelly website](#). Please contact Brittany Trottier (brittany.trottier@niehs.nih.gov) and your respective Program Officer if you have any questions.

Pioneering Interdisciplinary Approaches to Phytoremediation

Researchers at the University of Washington SRP Center

EMPLOYMENT OPPORTUNITIES

University of Arizona Seeks Assistant Specialist in Soil Health

The Environmental Science Department in the College of Agriculture and Life Sciences at the University of Arizona is currently seeking an Assistant Specialist in Soil Health. The individual will join the Cooperative Extension team to conduct applied research and outreach programs in soil health as related to crop production and sustainability. The target hire date is May 31, 2021. For more information and to apply, please see the [job description](#).

Several Openings – Gradient

Gradient is an environmental and risk sciences consulting firm specialized in the fields of toxicology, epidemiology, risk assessment, product safety, contaminant fate/transport, industrial hygiene, geographic information systems, and environmental chemistry. They are currently seeking applicants for several positions in these fields. For a list of current openings and more details on specific roles, check out their [career website](#).

CURRENT RESEARCH BRIEF

[SRP Research Brief 315](#): Modeling and Field Tests Yield Promising Results for Aquifer Clean Up

developed innovative approaches to enhance phytoremediation of chlorinated solvents using poplar trees. The team, led by Milton Gordon, Ph.D., and Lee Newman, Ph.D., found that hybrid poplar trees can degrade chlorinated organic solvents in groundwater, including trichloroethylene (TCE), perchloroethylene, and carbon tetrachloride. They were the first to genetically enhance poplar trees to increase removal of TCE, and their approach evolved to become more efficient, sustainable, and cost-effective. Read the latest [Public Health Impact Story](#) to learn more!

IN THE NEWS

NIEHS SRP News Stories

Take a moment to read about some of our colleagues' latest activities in this month's [Environmental Factor](#), the NIEHS newsletter:

- [Extramural Paper of the Month: New graphene nanochannel filters hold promise for contaminant clean-up](#): A new strategy to design nanomaterials to better filter contaminants from water overcomes previous limitations, according to Brown University SRP researchers.

Visit the SRP page for more stories about the program:

- [Linking Chemical and Nonchemical Mixtures to Health Disparities](#): At a February 5 seminar, University of California (UC), Berkeley SRP researcher Rachel Morello-Frosch described her research efforts to understand how social factors, such as inequality and psychological stress, interact with environmental chemical exposures to produce health disparities.

Bhatnagar Featured in NIEHS Podcast

University of Louisville SRP Center researcher, Aruni Bhatnagar, was recently featured in an NIEHS podcast, [Greening Neighborhoods to Improve Health](#). Bhatnagar discussed the impacts of neighborhood greenness on cardiovascular health. He also described his efforts with the Green Heart Study, which is partly funded by NIEHS, to partner with communities in Louisville to assess which specific greenness-related factors might improve health.

Cardenas Quoted About Arsenic Exposure and Disease

UC Berkeley SRP grantee, Andres Cardenas, was quoted in [The Daily Californian](#) about the health effects of arsenic exposure. According to Cardenas, exposure to arsenic before birth or during early childhood could decrease cognitive development and increase susceptibility to chronic diseases.

Duke's Research Reported by the Media

A [recent publication](#) by Duke SRP project leads, Heather Stapleton and Claudia Gunch, was featured in [Salon](#) and [Massive](#)

(Christenson, Airlift Environmental)

Past [Research Briefs](#) are available on the SRP website. To receive the monthly Research Briefs or to submit ideas, email Michelle Heacock (heacockm@niehs.nih.gov).

Video summaries of the SRP Research Briefs are available on the [NIEHS Social Media Shorts YouTube page](#).

EVENTS

[Society of Toxicology Annual Meeting & ToxExpo](#)

March 12-26, 2021
Virtual Conference

[FLUOROS 2021 Symposium](#)

Sponsored by the University of Rhode Island SRP Center
October 3-6, 2021
Providence, Rhode Island

[11th Conference on Metal Toxicity and Carcinogenesis](#)

October 17-20, 2021
Montreal, Canada

[SETAC 8th World Congress](#)

September 4-8, 2022
Singapore

GET UPDATES FROM OTHER SRP GRANTEES

To see the latest SRP grantee publications, visit the [SRP Grantee Publications page](#).

Visit the [SRP Materials for Grantees page](#) for helpful information, such as SRP administrative supplements information, SRP best practices, guidelines for NIEHS logo use, and the Data Collection Form.

See the [SRP Science Digest](#) to read more about recent SRP research highlights and activities.

The [SRP Events page](#) contains information about upcoming meetings, seminars, and webinars.

[Science](#). In the paper, Stapleton and team examined the role that indoor exposures to semivolatile organic compounds (SVOCs) play in altering the gut microbiome of young children. The authors found that SVOCs were linked to a decrease in important yet relatively rare gut microbes.

Stapleton was also quoted in [EcoWatch](#) about her lab's research on the efficacy of various point-of-use filters at removing per- and polyfluoroalkyl substances (PFAS) from drinking water. She noted that the filters most effective at removing all kinds of PFAS compounds are also the most expensive, which can prevent some people from being able to use them.

TAMU Researcher Quoted in News Stories

Jennifer Horney from the Texas A&M University (TAMU) SRP Center was recently quoted in [Environmental Health Perspectives](#) about social vulnerabilities, such as housing, that make people more susceptible to environmental exposures after natural disasters. Horney was also interviewed in [Everyday Health](#) about new COVID-19 mutations.

TRAINEE SPOTLIGHT

Rana Uncovers How Pollutants Lead to Chronic Diseases

Growing up in a predominantly immigrant neighborhood in Chicago, UC Berkeley SRP Center trainee Iemaan Rana learned that her community was disproportionately exposed to ubiquitous environmental pollutants (UEPs), such as benzene and glyphosate, and at a greater risk for diseases.



Under the mentorship of Luoping Zhang, Rana works to understand how exposure to UEPs can contribute to chronic diseases, such as cancer. By understanding the mechanisms by which they affect human health, Rana hopes to inform public health policies to protect vulnerable communities.

Formaldehyde, an UEP widely used in consumer products such as hair relaxers, is suspected to have neurodegenerative effects. In a [recent publication](#), Rana observed that exposure to formaldehyde was associated with brain cancer and amyotrophic lateral sclerosis. Results showed that formaldehyde exposure, particularly at high levels, may manifest in the initiation and progression of different neural diseases by mis-regulating common genes or metabolism pathways. According to Rana, little is known about the causes of neurological disorders, and understanding how environmental exposures contribute to these diseases will shed light on how to treat and prevent them.

In [another publication](#), Rana and team investigated the role of

The SRP website also has [Search Tools](#) to help you learn more about projects funded by the program.

JOIN THE @SRP_NIEHS KNOWLEDGE NETWORK ON TWITTER!

NIEHS uses Twitter, a popular social media tool, for information sharing through tweets. Many SRP Centers also have accounts, and it would be great if all participated! Follow us [@SRP_NIEHS](#) to instantly hear news about the program, noteworthy publications, events, and job opportunities for trainees.

CONTACT INFORMATION

Need to get in touch with an NIEHS SRP staff member? Check out our [Contact Staff](#) page.

glyphosate-based herbicides (GBH) in increasing the risk of non-Hodgkin's lymphoma (NHL). The group demonstrated that GBH exposure is associated with an increased risk of NHL in humans and detected a 41% increased risk of NHL among thousands of agricultural workers who are highly exposed to GBH. They also observed that new practices like green burndown, the practice of applying GBH to crops shortly before harvest, are a particular source of exposure.

This study has drawn international media attention in more than 150 news articles, has been cited in multiple high-profile court cases, and is now informing policies that control GBHs. As one of the leading authors, Rana is humbled that her work is the genesis of new studies and scientific and regulatory discussions.

A doctoral student at UC Berkeley and a medical student at the University of Chicago College of Medicine, Rana is grateful for the patience and support of her mentors. Recently, she received the 2020 Gunther and Lee Weigel Medical School Scholarship from the Elks National Foundation.

Rana is passionate about mentoring young graduate and undergraduate students in public health. She volunteers in several mentoring organizations at UC Berkeley and enjoys helping medical school applicants with their essays and interview prep.

When she is not in the lab or volunteering at the clinic, Rana enjoys cooking for friends, rock climbing, and hiking.

HOT PUBLICATION

Clarifying the Protective Effects of Antioxidants Against EPFRs

In a recent [study](#), Oregon State University SRP Center researchers identified potential protective effects of antioxidants TEMPOL (4-Hydroxy-2,2,6,6-tetramethylpiperidine 1-oxyl) and PBN (N-tertbutyl- α -phenylnitron) against environmentally persistent free radicals (EPFRs).

EPFRs are primarily emitted from combustion and thermal processing of organic materials and have been shown to trigger oxidative stress, but hazards are still largely unknown. Multiple studies have shown that PBN and TEMPOL have protective effects on oxidative stress and inflammation.

The team exposed zebrafish at various developmental stages to increasing concentrations of EPFRs, and to combinations of EPFRs with TEMPOL or PBN to investigate whether the antioxidants would prevent EPFR induced toxicity.

Results showed that exposure to particles containing EPFRs interfered with normal development in zebrafish. The researchers reported on a series of developmental abnormalities and adverse behavioral effects. However, the researchers found that TEMPOL

ameliorated the toxicity of EPFRs and decreased mortality. PBN, on the other hand, was not protective against EPFRs in zebrafish. Compared to TEMPOL, PBN was not able to penetrate the cell wall, which may have dampened its effects.

According to the researchers, TEMPOL may suppress the toxicity of EPFRs by preventing oxidative stress and inflammation in intact zebrafish embryos. They propose further experiments to verify that TEMPOL can better penetrate cells than PBN in zebrafish. Although the mechanism by which TEMPOL reduces toxicity from EPFR exposure is still unclear, the team's current findings pave the way for further studies of the protective effects of antioxidants.

AWARD WINNERS

Kotalik Receives SETAC/ICA Chris Lee Award for Metals Research

Christopher Kotalik, a EUC participant with Colorado School of Mines SRP grantee James Ranville, was recently honored by the Society of Environmental Toxicology and Chemistry (SETAC) and the International Copper Association (ICA). Kotalik received the [SETAC/ICA Chris Lee Award for Metals Research](#) for his dissertation work, which used a combination of field experiments and biomonitoring to estimate the sensitivity of stream communities to metals. The award recognizes graduate students who are working on elucidating the fate and effects of metals in the environment.

Sedlak Lab Trainees in the Spotlight

UC Berkeley SRP trainee, Daniel Ocasio, won the second prize at the De Nora Student Pitch Competition at the 2020 De Nora Symposium. His presentation was titled Eliminating Resource-Dependent Point-of-Use Water Disinfection. Ocasio's research, mentored by David Sedlak, focuses on electrochemical processes for point-of-use water treatment, with a particular interest in zero-chemical-input designs.

Another trainee from the Sedlak lab, Yanghua Duan, received the [2020-2021 National Water Research Institute Member Agency Fellowship](#). This fellowship funds graduate students who are developing and enhancing drinking water supplies and water resources in general. Duan's research focuses on electrochemical advanced oxidation processes for stormwater treatment and recharge.

Bhattacharyya Receives Prestigious Award

University of Kentucky SRP project lead Dibakar Bhattacharyya, received the 2020 American Institute of Chemical Engineers (AIChE) Separations Division Founders Award. The award, presented at the AIChE annual meeting in November, is highly competitive with a global nomination pool. Bhattacharyya's SRP work focuses on developing novel functionalized membrane

materials that can both capture and break down harmful pollutants.

Villena Receives Oliver Smithies Investigator Award

University of North Carolina-Chapel Hill (UNC) SRP project lead, Fernando Pardo-Manuel de Villena, was reappointed the UNC School of Medicine Oliver Smithies Investigator Award for an additional five years. The award was established in honor of the research achievements of UNC Nobel Prize Winner Oliver Smithies and is bestowed upon senior faculty members who have made significant research contributions and achieved international recognition for their work.

Nwanaji-Enwerem Selected as Agent of Change in Environmental Health

Jamaji Nwanaji-Enwerem, a UC Berkeley SRP postdoctoral trainee, was selected as an Agent of Change in Environmental Health. This award is part of a program designed to amplify the voices of the next generation environmental health and justice leaders. Agents of Change seek to reimagine science communication by breaking through the echo chamber with new voices grounded in science, community, and equity. Nwanaji-Enwerem is mentored by Andres Cardenas.

FUNDING OPPORTUNITIES

Understanding and Addressing the Impact of Structural Racism and Discrimination on Minority Health and Health Disparities

The National Institute on Minority Health and Health Disparities, with other NIH Institutes, Centers and Offices is soliciting applications for (1) observational research to understand the role of structural racism and discrimination in causing and sustaining health disparities, and (2) intervention research that addresses structural racism and discrimination to improve health in minority populations or reduce health disparities. A funding opportunity announcement is expected to be published in April with an expected application deadline in **August 2021**. For more information, see the [Notice of Intent to Publish \(NOITP\)](#) for this funding opportunity. Please contact Lindsey Martin (lindsey.martin@nih.gov) if you have any questions.

NSF Cyberinfrastructure for Emerging Science and Engineering Research

The National Science Foundation (NSF) seeks proposals for the Cyberinfrastructure for Emerging Science and Engineering Research program within the Office of Advanced Cyberinfrastructure for pilot projects. This program brings together researchers and cyberinfrastructure experts to combine existing community data resources and shared data-focused infrastructure into integrative data-intensive discovery workflows that empower new scientific pathways. The application deadline is

March 23, 2021. For more information, see the [funding opportunity announcement](#).

HEAL Initiative: HEALthy Brain and Child Development Data Coordinating Center (U24)

NIH seeks applications for a Data Coordinating Center for the HEALthy Brain and Child Development (HBCD) Study. The Data Coordinating Center will perform quality control, data curation, and analysis from the measures collected from research sites to measure progress and maximize comparability across individual research sites for the HBCD longitudinal study. The successful applicant will propose a secure bioinformatics platform for data storage, harmonization, and sharing that enables effective communication of detailed research data, tools for data access and analysis, supporting documentation and necessary training materials. Applications are due **March 31, 2021**. For more information, refer to the [NIH Funding Opportunity Announcement](#).

Human Health Exposure Analysis Resource (HHEAR) Program

Applications are being accepted for the HHEAR program, which provides health researchers access to laboratory and data analysis services to expand assessment of environmental exposures in their existing NIH-funded studies. SRP grantees with human samples from ongoing studies can apply for no cost targeted and untargeted analysis of environmental samples, and untargeted analysis of biological samples. For more information and to check your eligibility, visit the [program website](#) or see the [recorded archive](#) of the NIEHS Exposure Science and the Exposome Webinar Series on HHEAR. To apply, visit the [How to Apply](#) page. The next submission deadline is **May 14, 2021**. For questions related to the application process, contact HHEARHelp@Westat.com. If you have any questions about the HHEAR program, please contact Michelle Heacock (heacockm@niehs.nih.gov).

Telomere Network Analysis Awards

The [Telomere Research Network](#), sponsored by the NIEHS and National Institute on Aging, is seeking proposals from early-stage investigators who are interested in joining the network. The Telomere Research Network is dedicated to facilitating collaboration between scientists across disciplines to promote the science on telomere length as a predictor of environmental exposure, psychosocial stress, and disease susceptibility. This funding opportunity will support at least five projects that address scientific gaps in relation to telomere length as it applies to epidemiological research. Awardees will receive a \$4,000 honorarium, mentorship from telomere measurement experts, and access to high level statistical consultation as needed. Proposals are due **April 15, 2021**, and should be submitted as a single PDF to telomerenetwork@gmail.com. If you have any questions, please email Elissa Epel (elissa.epel@ucsf.edu) or Stacy Drury

(sdrury@tulane.edu).

NSF Center for Advancement and Synthesis of Open Environmental Data and Sciences

NSF seeks to establish a Center to accelerate scientific innovations and discoveries in environmental biology through the use of data-intensive approaches, team science, and research networks. The new Center will further enable data-driven discovery through immersive education and training experiences to provide the advanced skills needed to maximize the scientific potential of large volumes of available open data. Higher education institutions and non-profit research organizations are invited to apply. Letters of intent are due **April 1, 2021**, and preliminary proposals are due **April 29, 2021**. For more information, and to apply see the [NSF program solicitation](#).

Environmental Influences on Aging: Effects of Extreme Weather and Disaster Events

Two complementary funding opportunities aim to clarify the behavioral, biological, epigenetic, genetic, neurological, and socioecological processes that affect the aging process:

- [Effects of Extreme Weather and Disaster Events on Aging Processes \(R01 Clinical Trial Not Allowed\)](#) supports research exploring the impacts of extreme weather and disaster events on the basic biology of aging. Applications are due **March 8, 2021**.
- [Effects of Extreme Weather and Disaster Events on Aging Populations \(R01 Clinical Trial Optional\)](#) supports research to advance our understanding of the impact of extreme weather and disaster events in aging human populations. Applications are due **March 8, 2021**.

The goal of these companion funding opportunities is to improve the health and well-being of older adults via increased knowledge about extreme weather and disaster preparedness, response, and recovery.

International Research Scientist Development Award (K01)

The Fogarty International Center has reissued two Funding Opportunity Announcements for the International Research Scientist Development Award:

- [International Research Scientist Development Award \(IRSDA\) \(K01\) Independent Clinical Trial Not Allowed \(PAR-21-104\)](#)
- [International Research Scientist Development Award \(IRSDA\) \(K01\) Independent Clinical Trial Required \(PAR-21-105\)](#)

The purpose of these awards is to provide support to postdoctoral research scientists and junior faculty based at U.S. institutions for an intensive, mentored global health research career development experience in a low- or middle-income country (LMIC). Investigators from any health-related discipline who

propose career development activities and a research project that is related to the health priorities of LMICs are invited to apply. Applications are due **March 9, 2021**. For more information, visit the [IRSDA Webpage](#).

NHLBI Opportunities for Predictive Analytics

The [National Heart, Lung, and Blood Institute \(NHLBI\)](#) announced the following funding opportunity and Notice of Special Interest:

[Use of Predictive Analytics to Accelerate Late-Stage Implementation Research to Address Heart, Lung, Blood, and Sleep Disorders](#).

The purpose of this solicitation is to leverage existing data resources using predictive analytics implementation research to inform and test the designs of implementation strategies for heart, lung, blood, and sleep (HLBS) conditions.

NHLBI also encourages applications with a focus on the development of advanced modeling techniques and data reporting, which would be publicly available and used to inform implementation strategies to address HLBS conditions.

Applications are due **May 25, 2021**.

NIH Support for Research Excellence

NIH released several notices announcing a new program opportunity titled “Support for Research Excellence (SuRE)”.

SuRE is a research capacity building program designed to develop and sustain research excellence in higher education institutions that receive limited NIH research support and serve students who are underrepresented in biomedical research. The following notices are being provided with the intent to allow potential applicants sufficient time to develop meaningful collaborations and projects:

[NOT-GM-21-003](#); [NOT-GM-21-008](#); [NOT-GM-21-009](#). More information will be released through a Funding Opportunity Announcement in early spring 2021 with an expected application due date in early **Fall 2021**.

Smart Health and Biomedical Research in the Era of Artificial Intelligence and Advanced Data Science

NIH announced a collaboration with the NSF on an interagency funding opportunity, [Smart Health and Biomedical Research in the Era of Artificial Intelligence and Advanced Data Science](#). The solicitation aims to address technological and data science challenges that require fundamental research and development of new tools to address pressing questions in the biomedical and public health communities. Traditional disease-centric medical, clinical, pharmacological, biological, or physiological studies and evaluations are outside the scope of this solicitation. Applications are due **November 10, 2021**. For more information, refer to the [NSF Smart Health website](#).

INTERAGENCY NEWS

Recorded Archive Now Available for NASEM Workshop

On February 2 and 3, The National Academies of Sciences,

Engineering, and Medicine (NASEM) hosted a workshop titled [The Interplay Between Environmental Exposures and Mental Health Outcomes](#). During the event, experts came together to explore emerging science on the relationship between environmental exposures and mental health. Discussions focused on the role of new methodologies to assess the mental health outcomes of environmental exposures, as well as developing and implementing public health actions to reduce exposures. A recorded archive of the workshop's presentations is [now available online](#).

EPA Computational Toxicology Communities of Practice Webinar

EPA's Computational Toxicology Communities of Practice is composed of hundreds of stakeholders from over 50 public and private sector organizations who are interested in using computational toxicology and exposure science to evaluate the safety of chemicals. Monthly webinars are held on the fourth Thursday of every month, and the next session will take place on March 25 from 11 am-noon EST. For more information and to see an archive of past presentations, see the [event website](#).

DATA SCIENCE AND DATA SHARING

Iowa SRP Shares PCBs Dataset

In a [recent publication](#), University of Iowa SRP Center researchers released a dataset that describes the biodegradation of PCB congeners, which are more toxic than the parent PCB. The dataset describes results from two experiments designed to assess PCB congeners broken down by *Paraburkholderia xenovorans* LB400, a well characterized PCB degrading microorganism, in the absence and presence of PCB-contaminated sediment, over time. This data may be used by researchers and practicing engineers to make risk-based decisions regarding in situ remediation options as alternatives to traditional ecologically invasive treatment technologies. The dataset is publicly accessible in the [Iowa Research Online](#) repository.

The State of Open Data 2020

Digital Science, in partnership with Figshare and Springer Nature, released the fifth [State of Open Data report](#), which outlines the impacts of the COVID-19 pandemic on research, and how this has influenced researchers' data sharing behavior. The team conducts the largest survey of its kind to discover global attitudes towards open data. The report also includes [raw data](#) from survey results from 4,500 participants, as well as a collection of articles about data sharing from global industry experts. For an overview of this report, see the recorded archive of the [State of Open Data webinar](#).

Guidelines for Data Sharing for COVID-19 Research

The Research Data Alliance (RDA) COVID-19 Working Group recently published a set of [recommendations and guidelines](#) on data sharing and related best practices for COVID-19 research. These guidelines include recommendations for researchers, policymakers, and infrastructure providers from the perspective of different domains, including clinical medicine and social sciences. The authors discuss several overarching themes such as the need to balance the creation of data adherent to FAIR principles, the use of trustworthy research data repositories, the use of well-annotated data with meaningful metadata, and practices of documenting methods and software.

NIH Data Sharing and Reuse Seminar Series

The NIH Office of Data Science Strategy launched a new monthly seminar series to highlight exemplars of data sharing and reuse. Each month, the series will highlight researchers who have taken existing data and found clever ways to generate new findings. The next session titled “Opportunities for NIH Cloud Interoperability Approaches to Improve Outcomes of Pediatric Diseases” will be on March 12 at noon ET. The seminar is open to the public, to register see the [event page](#). If you missed last month’s session, a [recorded archive](#) has been posted.

Changing the Culture of Data Management and Sharing Workshop

On April 28-29, the National Academies of Sciences, Engineering, and Medicine will host a virtual workshop to explore challenges and opportunities in establishing effective data management and sharing practices. This event will provide a venue for stakeholders across different fields to discuss possible data science strategies and researcher needs in light of the new [NIH Policy on Data Management and Sharing](#). For more information, and to register, see the [workshop website](#).

Exposome Data Challenge

The [Exposome Data Challenge Event](#) will take place April 28-30. The purpose of this event is to promote statistical, data science, or other quantitative approaches to studying the health effects of the exposome. This workshop will bring together experts in environmental epidemiology and biostatistics from around the world and will be an opportunity for researchers to test their statistical methods on a real case scenario exposome dataset. The planning committee encourages those interested to submit an abstract by **March 8** highlighting the challenge they want to explore and the statistical approach that will be implemented.

DataOne Monthly Webinar Series

The Data Observation Network for Earth (DataONE), a community-driven program providing access to data across multiple member repositories, hosts cutting-edge discussions in research data management at their monthly webinars. Sessions are held during the academic year on the second Tuesday of

every month from 12-1 pm EST. These webinars focus on topics such as open science, the role of the data lifecycle, and achieving innovative science through shared data and ground-breaking tools. The next session in the DataOne Webinar Series will take place on March 9, 2021. If you missed the previous sessions, recordings are available on the [webinar series webpage](#).

NIH Workshop on InChi

On March 22-24, the NIH will host a workshop on the essential role of the International Union of Pure and Applied Chemistry International Chemical Identifier (InChi) in data science. The purpose of the event is to bring the chemistry community together for an update on the development of the InChI and a discussion of its use in chemistry, biochemistry, and related research domains. The workshop will include short talks and panel discussions where attendees will have the opportunity to share usage of the InChi in their organization, as well as challenges and areas not covered by InChi. To register, please see the [event page](#).

Leveraging Geospatial Technologies for Environmental Health Decisions Workshop

The National Academies of Sciences, Engineering, and Medicine will hold a workshop on April 14-15 titled Leveraging Advances in Remote Geospatial Technologies to Inform Precision Environmental Health Decisions. The purpose of this event is to explore how advances in the resolution of geospatial technologies could inform targeted public health interventions that reach the right populations at the right time. The workshop will also include a discussion component for participants to delve into ways to integrate geospatial data with other environmental exposure data. For more information, please see the [event page](#).

Research Data Alliance 17th Annual Meeting

The theme of [RDA's 17th Plenary Meeting](#) will be Opening Data for Global Challenges. The meeting will be held on April 20-22 as a virtual event and is being hosted by the Digital Curation Centre in collaboration with Jisc and STFC-UKRI in Edinburgh, Scotland. The plenary session will focus on the themes of global challenges, global mechanisms for data reuse, sustainable solutions with benefits for all, and global cooperation to address grand challenges and ensure societal impact of data reuse.

Fair Festival 2021 – Advancing Data and Science

The GO FAIR International Support and Coordination Office will be hosting the Fair Festival 2021 – Advancing Data and Science on June 21-23. GO FAIR is an initiative that aims to implement the FAIR data principles, making data Findable, Accessible, Interoperable, and Reusable (FAIR). The purpose of this event is to celebrate FAIR shift in data management and offer an open and inclusive ecosystem for researchers to build on their scientific achievements. A meeting agenda and registration information will

be posted soon on the [GO FAIR events website](#).

Save the Date: International Data Week 2021

The International Science Council's Committee on Data (CODATA) and World Data System (WDS), and the Research Data Alliance (RDA) announce that the 2021 edition of [International Data Week](#) will be held on November 8-11 both virtually and onsite in Seoul, South Korea. This international event will bring together researchers and data stewards from different disciplines to explore how best to exploit the data revolution to improve science and society through data-driven innovation. The event combines the RDA 17th Plenary Meeting and SciDataCon 2021, a scientific conference addressing the frontiers of data in research organized by CODATA and WDS.

PHOTO OF THE MONTH



University of Kentucky SRP trainees Sweta Ohja (left) and Molly Frazar (right) braced the recent snowstorms to collect water samples for their respective SRP-funded projects. Ohja works with Kelly Pennel to reduce exposure to environmental contaminants, such as PFAS, from piping systems. Frazar works with Dibakar Bhattacharyya to develop membranes to remove halogenated organic compounds from water.