



University of New Hampshire

Office of the Senior Vice Provost for Research,
Economic Engagement and Outreach



RESEARCH, ECONOMIC ENGAGEMENT AND OUTREACH UPDATE

March 17, 2021

ANNOUNCEMENTS

New Flow Cytometer

For several years, the [University Instrumentation Center](#) has housed and managed two flow cytometers: one with two lasers, able to measure six parameters (forward scatter, side scatter, four fluorescence emissions), and one with four lasers, able to measure eight parameters (forward scatter, side scatter, six fluorescence emissions). Now, thanks to

our friends at Dartmouth College and funding from the OSVPREEO and the Center of Integrated Biomedical and Bioengineering Research (CIBBR), a third flow cytometer has been added to the UIC that is able to measure ten parameters (forward scatter, side scatter, eight fluorescence emissions). In addition, this [Miltenyi VYB flow cytometer](#) has many automated features, including autosampling from 5mL tubes or 96-well plates, calibration, compensation, antibody labeling, staining, dilution, and cleaning. Its syringe-driven sample uptake helps prevent clogs and allows accurate volumetric cell counts to be made, difficult to achieve with standard sample injection ports like those on our other cytometers. The Miltenyi instrument also contains a cell enrichment unit to perform pre-analysis concentrating of rare cell types, fully automated, to speed up analysis of such cells. Contact [Mark Townley](#) for more details and to arrange training.

Postdoc Research Extravaganza

Postdoctoral researchers from UNH joined postdocs from Dartmouth in the second annual UNH-Dartmouth Postdoc Research Extravaganza in January. Adam Wymore, faculty fellow for postdoctoral affairs at UNH, says the event provided networking and professional development and fostered collaboration between the two institutions. [Learn more.](#)

May 2021 Ethical and Responsible Conduct of Research Training

Registration is open for the May 2021 [ethical and responsible conduct of research \(RCR\) training](#). The training involves completion of [online RCR instructional modules](#) and participation in a Zoom seminar Thursday, May 13, 2021, 9 am-noon. Participants must [register for the training](#) by Wednesday, May 5, and must complete the online modules prior to the seminar.

The training, primarily directed at postdoctoral researchers, graduate students and undergraduate students, but open to all faculty and staff, fulfills RCR training required by the [National Science Foundation](#) and the [United States Department of Agriculture National Institute of Food and Agriculture](#). Contact [Julie Simpson](#) with questions.

Research Commercialization Reminder

Remember to reach out to [UNHInnovation](#) to discuss your innovations and, when appropriate, begin the process of obtaining proper intellectual property (IP) protection. Commercialization of research is a priority for the university. Federal law requires the university to disclose patentable inventions, protect IP, and engage in tech transfer activity when any portion of its research funding comes from the U.S. government. UNH policy further expands this to include all innovations, whether they are patentable inventions, tangible research products, creative works, software, or trademarks. Public disclosure of your innovation could result in the loss of patentability. If you are planning on presenting your innovation through publications, poster sessions, conferences, press releases, or other public communication, you should complete a disclosure well beforehand. More information is [here](#).

COVID-19 Funding and Research Resources

See [COVID-19 Funding Opportunities, Research Priorities, and Resources](#) and the [Quick Guide - Resources Supporting COVID-19 Research](#).

The National Geographic Society is providing funding for projects focused on how humanity and the natural world have reacted to and are living through the unparalleled circumstances created by COVID-19 in order to better understand how the pandemic—or the threat of another—will shape the world for years to come. Deadline for Statement of Interest: March 31, 2021, 11:59 PM EDT. [Details](#).

Research and Large Center Development Email Interest Lists

The Research and Large Center Development Office maintains email lists about funding and other sponsor information by interest areas. If you would like to subscribe to these lists or update your current list preferences, please sign up [here](#).

RLCD is considering creating a new interest list related to diversity, equity, and inclusion (DEI). It will be used to alert members to funding opportunities for the study of DEI and to highlight other funding opportunities that include promoting DEI as a major goal in addition to the research or scholarly activity supported. Please let us know if you'd be interested in such a list, and what other info would be appropriate to share through the list at rlcd.info@unh.edu.

Limited Submission Programs to Act on Now

Because some sponsors limit the number of applications from an institution, please contact [Mark Milutinovich](#) as soon as possible if you are interested in applying to any of the following. Be sure to watch for our email at the start of each month for a more comprehensive list or check [current LSP Deadlines](#).

- NSF [EPSCoR Research Infrastructure Improvement Track 4: EPSCoR Research Fellows \(RII Track-4\)](#) – NSF Deadline is 4/26/21; internal UNH competition deadline is March 22, 5 PM
- NSF [Enabling Quantum Leap: Quantum Interconnect Challenges for Transformational Advances in Quantum Systems \(QuIC-TAQS\)](#) – NSF Deadline is 4/12/21
- National Endowment for the Arts, [Challenge America](#) – NEA Deadline is 4/22/21

COVID-19 UNH Community Archive

The UNH Library is accepting contributions to the [COVID-19 UNH Community Archives](#) online collection. Help us document our collective experience of this unique time! The COVID-19 UNH Community Archives provides a means for gathering personal stories, photographs, videos, recordings, reports, data and other materials that reflect the experiences and response of the UNH community during the COVID-19 crisis. Contact: scholarly.communication@unh.edu.

Workshop Resources

Did you miss a workshop? Below are links to videos and slides of recent sessions.

March 9, 2021, Research Communications Academy Communicating with Policy Makers session: [video](#)

March 3, 2021, Demystifying the Scholarly Publishing Landscape [Video Slides](#)

Feb. 26, 2021, Evaluation and Assessment for NSF Projects [video recording](#) [slides and resources](#)

Feb. 18, 2021, Advancing Understanding of Terrestrial-Aquatic and Marine Interfaces with DOE National Labs [video recording](#) [slides](#)

Feb. 15, 2021, Better Posters with Zen Faulkes [video recording](#)

Feb. 12, 2021, Developing Broader Impacts and Partnerships for NSF Proposals [video recording](#) [slides and resources](#)

Nov. 4, 2020, [Authorship as a Team Sport](#)

Sep. 23, 2020, [Data, Data, Everywhere...](#)

Slides and resources from additional programs are available on the Research and Large Center Development [website](#).

UPCOMING EVENTS

Specialty Syrup Research Field Day

Wednesday, March 17, 6pm via Zoom

Join UNH Extension's Steve Roberge and scientists with the New Hampshire Agricultural Experiment Station for a Specialty Syrup Research Field Day. Researchers will present preliminary findings of the first assessment of sap flows in species of trees that offer unique tasting, high-value syrups. Native, deciduous hardwoods such as sycamore, beech, birch, hickory, and basswood may offer commercial and backyard maple syrup producers an untapped opportunity to extend the Northeast sugaring season and diversify the industry and your next pancake breakfast with high-value niche syrups. [Learn more and register](#).

Research & Large Center Development Program

Friday, March 26, 1 – 2:30pm via Zoom

[Preparing NSF Proposal Components Other than the Project Description](#)

Black Thought, Science & Feminism

Wednesday, March 31, 6 – 7:15pm via Zoom

Chanda Prescod-Weinstein, assistant professor of physics and astronomy and core faculty member in the women's and gender studies department, and Katherine McKittrick, professor in gender studies and the graduate program in cultural studies at Queen's University in Canada, will discuss Black thought, science, and feminism. Prescod-Weinstein

is the author of the just-released book “The Disordered Cosmos: A Journey into Dark Matter, Spacetime, and Dreams Deferred.” This Zoom event is free and open to the public, but [registration is required](#). This event, celebrating Women's History Month, is sponsored by COLA, CEPS, the Department of Women’s and Gender Studies, and the Office of Community, Equity, and Diversity.

Research & Large Center Development Program

Thursday, April 1, 3pm via Zoom

[Interdisciplinary Research in the Age of Zoom: Fostering Research Teams and Productive Research Retreats Despite Zoom Fatigue](#)

Project planning, scientific discussions, training, interactive teams — characteristics of exciting interdisciplinary research. Zoom fatigue — current characteristic of most of us. Join us as [Alecia Magnifico](#) and [Bethany Silva](#) and TILDE team representatives including Ashley Barry and [Laura Allen](#) discuss strategies and tools they are using to remotely foster their 11-person research team, hold productive (and fun!) multi-day research retreats, and advance their UNH CoRE COVID-19-funded research project ([TILDE](#)). Bethany and Alecia will share their experiences, highlight tools they use, and talk about turning Zoom fatigue on its head. Register [here](#)

Research Communications Academy: Communicating With Funders

Tuesday, April 6, 12:40 – 2:00pm via Zoom

UNH’s Research and Large Center Development team will give an [overview of their services](#) and how scholars can use them to create effective grant proposals. Joined by a proposal-savvy UNH researcher, they’ll address how to find federal and foundation funders, the components of an effective proposal, when to access different UNH resources and how to find collaborators using Dimensions. [Register here](#).

Research Communications Academy: Using Social Media

Thursday, April 15, 3:30 – 4:30pm via Zoom

Hear from your colleagues about how to [use social media](#) to communicate scholarship, connect with collaborators, create a personal learning network and increase the impact of your work. Panel will include four UNH scholars who reflect a range of social media activity. [Register here](#).

Tales from the Field: Scholarly Publishing Experiences & Cautions

Wednesday, April 7, 3:10 - 4:30 pm via Zoom

Due to the complexity of the contemporary scholarly publishing landscape, researchers face a host of practical and ethical issues when making decisions about publication that may not have been on their radar within the last few years (e.g., predatory journals, open access, preprint servers, publishing data and sponsor obligations when making publication decisions). These issues also may be compounded when conducting research in interdisciplinary collaborations. In this workshop, panelists will highlight issues that researchers may encounter and offer strategies to

minimize or avoid negative consequences when making publication decisions. More information and registration is [here](#).

GOOD NEWS

Professor of chemical engineering Xiaowei Teng's research into safer, more environmentally friendly energy storage devices is UNHInnovation's [Innovation of the Month](#). New research from Paul College assistant professor of management Rachel Campagna explores [trust and first impressions](#). UNH Survey Center director Andrew Smith, associate professor of political science, received the [Kennedy Achievement Award](#) from the Association for Academic Survey Research Organizations. UNH Manchester professor of computer science Mihaela Sabin was appointed as a [member of the education board](#) for the Association of Computing Machinery, the world's largest computing society. UNH scientists are using artificial intelligence and student-built magnetometers to improve the [forecasting of space weather](#) events. Serita Frey, professor of natural resources and the environment, will lead a new [National Science Foundation](#) grant that aims to understand the impact of global change on soils in the northeast. Frey and NRESS Ph.D. student Emily Whalen are teaching a "Hot Topics" graduate seminar in [anti-racism in science](#). Please send research news — high-impact results, new grants, awards and more — to [Beth Potier](#).

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