2022 SPARK
SPARK, UNH’s annual review of research and scholarship, is out. This issue highlights many pride points of the past year — record external funding for our research, honors and accolades for our faculty and graduate students, efforts toward making UNH research more inclusive — as well as several ways UNH research improves the lives of people here in the Granite State. Read the digital version or request a printed copy.

Makerspace
The Makerspace at the UNH Entrepreneurship Center (ECenter) is a 476-square-foot workshop outfitted with fabrication tools and equipment for UNH students, faculty, and staff to create nearly anything they can imagine. Whether it be for research, a business idea or just for fun, the Makerspace is a free resource for the UNH community. The Makerspace provides all materials, training and equipment, which includes 3D printers, laser cutter/engraver, vinyl cutter, CNC mill and more. Summer hours are limited, but the Makerspace will be back with a regular schedule for the fall 2022 semester. Questions? Contact Heather MacNeill.
UNH Chemical Safety Award
The UNH Chemical Safety Committee and the Environmental Health & Safety Office annually award the UNH Chemical Safety Award to a graduate and undergraduate student in recognition of outstanding contributions to chemical safety. This year’s award recipients are chemistry graduate student Md AL Faruk and chemistry undergraduate Andrew Jenkins. They will each receive a $1000 award from corporate sponsor Measured Air Performance. Congratulations!

SOST Seeks Contributors for Opportunities and Actions Roundtable
The White House Office of Science and Technology Policy National Science and Technology Council (NSTC) and the Ocean Policy Committee (OPC) Subcommittee on Ocean Science and Technology (SOST) is hosting an Opportunities and Actions Roundtable to allow the ocean community to share their innovative and novel ideas to advance federal ocean science and technology priorities. Three cross-cutting priorities are outlined in the recently released Opportunities and Actions report: climate change, resilient ocean S&T infrastructure and a diverse and inclusive blue workforce, all of which include connections to racial justice and equity.

Timeline:
- June 10, 2022: Submit to be considered for a lightning talk at the roundtable event here.
- July 5, 2022: Authors notified about their submission; selected authors asked to prepare a three-minute presentation. All submissions will be distributed to SOST members and interested members may reach out with inquiries.
- July 19, 2022, 1 p.m.: Opportunities and Actions Roundtable. Everyone is invited to attend this virtual event. Register here.

Annual Chemical Inventory Verification Program
With the assistance of a team of talented students, the Environmental Health & Safety Office will begin verification of the campus hazardous materials inventory in June and will continue through July 2022. Please assist this program by reviewing the chemical inventory in your space, mark containers empty and organize shared spaces — labeling container owners or storage areas ahead of the team will help with greater accuracy and efficiency of the inventory program. Now is also a great time to update your user profile information, signage and inventory online in UNHCEMS. UNHCEMS is a national award-winning, best-in-class system supporting research and safety needs. ContactKarrie Myer with questions.

Research Integrity Services Summer Drop-In Zoom Office Hours
Research Integrity Services will continue to offer drop-in Zoom “office hours” in June, July and August: Tuesdays 9 – 10 a.m., Wednesdays 12 – 1 p.m. and Thursdays 3 – 4 p.m. Stop by with your questions about using Cayuse Human Ethics for IRB applications, using Cayuse Outside Interests for external activity disclosures or general research compliance matters. Click the hyperlinks for more information, including the current Zoom link.

Institutional Biosafety Committee
The Institutional Biosafety Committee meets every other month with meeting dates for 2022 published on the Institutional Biosafety Committee webpage. Please submit protocols by the due date listed for consideration at the next meeting.
IRB Summer Schedule
The UNH Institutional Review Board (IRB) for the Protection of Human Subjects in Research’s summer 2022 meeting schedule is available [here](#).

Summer Virtual I-Corps Program Accepting Applications
UNH, through UNHInnovation, received National Science Foundation funding to create the UNH I-Corps™ program, which works to bring new innovations developed at the university to the marketplace faster. UNHI offers an accelerated virtual version of our highly successful, previously in-person UNH I-Corps training. Faculty, staff, graduate students and undergrads are welcome to apply. Application deadline: Wednesday, May 25, 2022. For questions or additional information, contact unh.icorps@unh.edu.

Workshop Resources
Slides and resources from past research development programs are available [here](#). Information from previous UNH Collaborative Research Excellence (CoRE)-funded projects, as well as resources to support collaborative and interdisciplinary research, are [here](#).

FUNDING OPPORTUNITIES AND RESOURCES

COVID-19 Funding and Research Resources
See COVID-19 Funding Opportunities, Research Priorities, and Resources and the Quick Guide - Resources Supporting COVID-19 Research.

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.

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<th>Deadline</th>
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<td>May 25</td>
<td>National Institutes of Health (NIH)</td>
<td>Research Experience in Genomic Research for Data Scientists (R25)</td>
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<td>May 26</td>
<td>NIH</td>
<td>Undergraduate Research Training Initiative for Student Enhancement (U-RISE) (T34)</td>
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<tr>
<td>Date</td>
<td>Organization</td>
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<td>May 27</td>
<td>NIH</td>
<td>Collaborative Program Grant for Multidisciplinary Teams (RM1) (Clinical Trial Optional)</td>
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<td>June 15</td>
<td>U.S. Department of Agriculture</td>
<td>Equipment Grant Program (EGP) Internal Competition is underway Deadeline: May 23 5 p.m. Details USDA EGP Webinar, May 16 at 1 p.m. Register</td>
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<td>July 1</td>
<td>NIH</td>
<td>Genome Research Experiences to Attract Talented Undergraduates into the Genomics Field to Enhance Diversity</td>
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<td>July 7</td>
<td>National Endowment for the Arts</td>
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<td>National Science Foundation (NSF)</td>
<td>Partnerships for Innovation -Research Partnerships (PFI-RP) Track</td>
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<td>CyberCorps(R) Scholarship for Service (SFS)</td>
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<td>IUSE / Professional Formation of Engineers: Revolutionizing Engineering Departments (IUSE/PFE: RED)</td>
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<td>Aug 1</td>
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<td>Resilient &amp; Intelligent NextG Systems (RINGS) - Virtual Organization (RINGS-VO)</td>
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<td>Sept 6</td>
<td>NIH</td>
<td>NIH Director's Early Independence Awards (DP5)</td>
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### National Science Foundation Research Traineeship (NRT) Program
Internal Competition is underway
Deadline: Jun 10, 5 p.m. [Details]

### Summer Stipends
Internal Competition is underway
Deadline: Aug 29, 11:59 p.m. [Details]

#### Research Development Newsletters
Research Development & Grant Writing News [May 2022](#)
Defense Policy Newsletter [May 2, 2022](#)

### UPCOMING EVENTS

**Nikon Super Resolution Workshop**
Webinar May 20, 2022, 10 a.m.
Hands-on demonstrations June 1 – 3, 2022
University Instrumentation Center, Parsons Hall
The local Nikon team and the [UNH Instrumentation Center](#) will host a webinar presentation (May 20) and drop-in demonstrations (June 1 – 3) of the [Nikon Ti2E](#) Inverted Research Microscope paired with [Abberior’s STEDYCON](#) (<40nm XY resolution achievable) and with [Yokagawa’s CSU-W1 SoRa](#) (spinning disk confocal and super resolution technology in a single device, 120 nm XY resolution). Sign up for a timeslot, to prepare samples to image and to enter our friendly workshop contest. The hosts strongly recommend that those who plan on attending and bringing samples to the on-site demonstrations be at the Teams meeting on May 20 (especially if preparing STEDYCON samples). Anyone bringing samples to the demonstrations should complete [this form](#) before a demo time can be scheduled. Contact Mark Townley or [click here](#) for additional information.

**Making Climate-Smart Agriculture Work**
May 24 – 26, 2022
Virtual
The NIFA-funded Agricultural Model Intercomparison and Improvement Project will host a [national conference](#) May 24 – 26 on Making Climate-Smart Agriculture Work. The focus of the virtual conference is to share information and best practices regarding the integration of science, modeling and economics to help farmers, ranchers and foresters mitigate and adapt to the challenges of climate change.

**ORCID and the OSTP Guidance on National Security Presidential Memorandum-33**
May 26, 2022, 2 – 4:30 p.m.
Virtual
In January, OSTP issued NSPM-33 implementation guidance for federal agencies. The guidance refers to the use of
DPIs, or Digital Persistent Identifiers. The National Council of Research Administrators will host an educational session on DPIs — what they are, how they work and how they can be an important part of a researcher’s workflow. In particular, this session will cover information about ORCID as currently the only DPI that meets the requirements listed in the OSTP guidance. Register here.

**NSF Virtual Grants Conference**
June 6, 2022, 2 p.m. – June 10, 2022, 4 p.m.
Virtual
View agenda and register here for whichever sessions you want to attend. All conference sessions will be available on-demand shortly after the event.

**GRAD 891 – National Science Foundation Graduate Research Fellowship Preparation**
August 29 – October 14, 2022 (Half Term)
This course is designed to enable students to receive information, guidance and support in applying for the National Science Foundation (NSF) Graduate Research Fellowship program (GRFP). Students will become familiar with the NSF, its mission and the selection criteria for this fellowship. Through independent work and collaborative exercises, students will strengthen writing skills and develop a strong application. For more information contact Jeanne Sokolowski or Michael Thompson.

**GRAD 930 — Ethics in Research and Scholarship**
August 29 – 12/12/2022 (Full Term)
Online
This is an interdisciplinary graduate seminar where students explore a wide range of issues related to the ethical conduct of research and scholarship. This course helps prepare students to conduct themselves as researchers in accordance with today’s standards for scientific integrity and professional ethics. Classes are predominantly discussion-based, relying on case analysis; guest speakers address topics from a variety of perspectives. Completion of this course meets the graduate school’s incoming PhD student RCR training requirement as well as the NSF’s and the USDA National Institute of Food and Agriculture’s RCR training requirement. More information here, or contact the instructors, Julie Simpson or Maria Emanuel.

**GOOD NEWS**
UNHInnovation celebrated its Innovators of the Year for 2020 and 2021 last week: Kelley Thomas, professor and director of the Hubbard Center for Genome Studies, and UNH Police Chief Paul Dean were honored for their contributions to UNH’s COVID response as the 2020 awardees; and UNH Extension’s Malin Clyde and Haley Andreozzi of Nature Groupie, the centralized website for conservation volunteer opportunities, received the honor for 2021. Congratulations to the faculty and staff recipients of 2022 UNH Sustainability Awards. The Olson Center received a nearly $300,000 grant from the National Institute of Standards and Technology to explore a new paradigm in manufacturing for the equitable commercialization, industrialization and democratization of manufacturing in space. Jeremiah Johnson, assistant professor of data science at UNH Manchester, received a $170,000 NASA grant to classify a large dataset of white light all-sky auroral images. Read more UNH research news here, and please send research news — high-impact results, new grants, awards, compelling photos and images and more — to Beth Potier.