**Open Access and FAIR Data in the Chemical Sciences**

A Webinar Hosted by the Chemical Sciences Roundtable (CSR)

August 1, 2023

3:30 – 5:00 PM ET

Publishing research is crucial for the scientific community and general public. Journals have provided a convenient source of peer-reviewed literature, which ensures reproducibility and helps inform new research. However, current publication models have barriers due either to paywalls or expensive publishing fees. There are significant opportunities that emerge by broad sharing of research results, including the raw data and meta data generated, and by providing access, readability and interpretation by humans and machines, especially as machine learning and artificial intelligence are rapidly advancing. The 2022 Executive Order to make all federally funded research publicly accessible by 2025 further underscores the need to update commonly used publication models in the chemical sciences. Open Access (OA) publishing and FAIR (Findability, Accessibility, Interoperability, and Reusability) data guidelines have been widely accepted in the field as solutions to increase the availability of research. Obstacles have hindered widespread implementation of these practices including finding an equitable approach to determining liability for publishing fees and forming data repositories. Large sets of raw data and computer algorithms can also be difficult to standardize across subdisciplines in chemistry. Furthermore, competitive industries, such as pharmaceutical and materials chemistry, present unique challenges to maintaining intellectual property. This webinar will provide an overview of open access publishing and FAIR data principles and discuss challenges and solutions specific to the chemical sciences for equitable implementation.

**AGENDA**

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| 3:30 PM | **Welcome and Introductions**<br>KAY WYMBS, Program Assistant<br>*National Academy of Sciences* |
| 3:35 PM | **Navigating Open Access, Equity, and Resources on our Diverse Campuses**<br>TASHNI-ANN DUBROY, Executive Vice President and Chief Operation Officer<br>*Howard University*<br>Moderated by ROB MALECZKA, CSR Member |
| 3:55 PM | **Sunbeams from Cucumbers… or How to Immortalize Your Research Data**<br>LEAH MCEWEN, Chemical and Biomolecular Engineering Librarian<br>*Cornell University*<br>Moderated by JAKE YESTON, CSR Member |
| 4:15 PM | **Towards FAIR Data for Polymers**<br>DEBRA AUDUS, Leader, Polymer Analytics Project<br>*National Institute of Standards and Technology (NIST)*<br>Moderated by KAREN WOOLEY, CSR Member |
| 4:35 PM | **Discussion**<br>Moderated by CSR Members |
| 5:00 PM | **Webinar Concludes** |