



IMPLEMENTING FAIR DATA FOR PEOPLE AND MACHINES: IMPACTS AND IMPLICATIONS

FINAL AGENDA

National Academies of Sciences, Engineering, and Medicine

Room 100, Keck Center of the National Academy of Sciences, 500 Fifth Street, NW,
Washington DC, 20001

Wednesday, September 11, 2019, 9:00 am – 5:00 pm

9:00 am – 9:15 pm Welcome and Opening Remarks

- **Marcia McNutt** | President | National Academy of Sciences (NAS)
- **George Strawn** | Director, Board on Research Data and Information (BRDI) | The National Academies of Science, Engineering, and Medicine

9:15 am – 10:00 am Keynote and Introduction

- **Barend Mons** | President | CODATA (a commission of the International Science Council), and Professor of Bioinformatics, Leiden University, The Netherlands
- **George Strawn** | Director, Board on Research Data and Information (BRDI) | The National Academies of Science, Engineering, and Medicine

Dr. Mons is the head of the International Support and Coordination Office of the GO FAIR Initiative, and a member of BRDI. In January 2019 he organized a meeting of Implementation Networks for FAIR data and services in Leiden where over 20 projects were represented.

10:00 am – 10:15 am Networking Break

10:15 am – 11:40 am Federal Perspectives

- **Mike Huerta** | Associate Director for Program Development | National Library of Medicine (NIH)
- **Robert J. Hanisch** | Director of the Office of Data and Informatics | Material Measurement Laboratory, NIST
- **Beth Plale** | Science Advisor for Public Access | NSF
- **Laura Biven** | Program Manager, Advanced Scientific Computing Research | Office of Science, DOE
- **Joanna Martin** | DC Liaison | Office of Science and Technical Information, DOE

This session will examine what various federal agencies are planning and doing to implement FAIR data into the context of open science. Views will range from policy to implementation initiatives. The initiatives will reflect various degrees of involvement in FAIR as all agencies are embracing open science and open data principles, consistent with mission fulfillment. It will cover policies, strategies, and technology applications such as Artificial Intelligence and Machine Learning.

11:40 am – 12:45 pm Case Studies: Implementing Networks

- **Giridhar Manepalli** | Director of Information Management Technology | Corporation for National Research Initiatives (CNRI)
- **Rebecca Koskela** | Executive Director | DataONE
- **Ranjeet Devarakonda** | R&D Staff | ORNL
- **Cynthia Hudson-Vitale** | Head of Research Informatics and Publishing | Pennsylvania State University Libraries
- **Larry Lannom** | Vice President | Corporation for National Research Initiatives (CNRI)

Conversations on FAIR data are often still happening at high levels in government and civil society with emphasis on policies and planning. What happens when the focus shifts to implementation? This session will highlight current efforts in implementing FAIR data principles and will offer emerging best practices and lessons learned.

12:45 pm – 1:30 pm Lunch (Provided)

1:30 pm – 2:30 pm Defining and Measuring FAIR

- **Maryann Martone** | Professor Emeritus (Neuroscience) | University of California, San Diego
- **Luiz Olavo Bonino** | International Technology Coordinator | GO FAIR International Support and Coordination Office
- **Keith Russell** | Engagements Manager | Australian Research Data Commons
- **Melissa Cragin** | Chief Strategist for Data Initiatives | San Diego Supercomputer Center, UCSD

As the scientific community moves to implement FAIR data, it becomes increasingly important to understand and measure the results of this implementation. This session will discuss perspectives on how to define FAIR and models that are being developed to measure FAIR implementation.

2:30 pm – 3:30 pm FAIR in Discovery, Search, and Scholarly Communication

- **Matt Jones** | Director | DataONE, UCSB
- **Daniella Lowenberg** | Data Publishing & Data Metrics Product Manager, UC Curation Center (UC3) | California Digital Library
- **Jason Griffey** | Director of Strategic Initiatives | NISO

Many stakeholders including publishers, education and research institutes, and funders are creating solutions that promote accessibility of the data that supports published scholarly research papers. This session will address the impact of FAIR data on search, discovery, and scholarly communications, including its purpose and use, the types of data used, and how we measure impact on the market, particularly where data can have a direct impact for advancing science and research. Speakers will also discuss attribution, transparency, and funding.

3:30 pm – 3:45 pm Break and Networking Opportunity

3:45 pm – 4:15 pm FAIR DATA and Scientific Workflow

- **Stuart Feldman** | Chief Scientist | Schmidt Futures
- **Bonnie C. Carroll** | Chief Data Officer, Information International Associates, Inc. and Secretary General of CODATA | Information International Associates, Inc. (IIA)

The National Academy Board on Research Data and Information (BRDI) has begun a study on automating science workflow which will have a key component of data and data management. BRDI has a focus on open science in which FAIR Data plays a

significant role. The study will convene a workshop later this year. The speaker will discuss the background and objectives of the study and the impact and implications of the role of data.

4:15 pm – 5:00 pm Filling the Gaps and Moving the Agenda Forward: Wrap Up and Adjournment

Session Moderators will present major takeaways from the day's sessions, followed by audience discussion. • What did you learn here today? • What are the big challenges for the future? • What are the gaps that might be emerging? • What are the next steps needed?