

Board on Research Data and Information

Committee

Bonnie C. Carroll

Co-Chair

BONNIE CARROLL (Co-chair) is a Retired Founder and Strategic Consultant for Information International Associates (IIa). For almost four decades, Ms. Carroll has participated in research and development projects related to information and knowledge management. After her sale and retirement from IIa, Ms. Carroll was the transition Executive Director of the World Data System, which she helped to bring to the US from Japan. In addition to her responsibilities while managing IIa, Ms. Carroll was Executive Director of CENDI, the federal scientific and technical information (STI) managers' group, and has been a Consultant to a number of federal science mission agencies. Ms. Carroll served as the first Executive Secretary for two White House Science Office Interagency Working Groups: the Interagency Working Group for Digital Data (IWGDD) and the Biodiversity and Ecosystems Informatics (BioEco) Working Group. She has served as President of the American Society for Information Science & Technology (ASIS&T) and as Chair of the American Association for the Advancement of Science Section on Information, Computing and Communications. Ms. Carroll has also been a consultant to foreign and international organizations including the International Atomic Energy Agency (IAEA), the Kingdom of Jordan, UNESCO (United Nations Educational, Scientific and Cultural Organization), and the International Council for Scientific and Technical Information (ICSTI). Prior to founding IIa, Ms. Carroll worked at U.S. Department of Energy's (DOE's) Office of Scientific and Technical Information as Director of Program Development and International Activities and Deputy and Acting Assistant Manager for Information Services, at Oak Ridge National Laboratory, and began her career at Cornell University. She holds a B.A. from Cornell University and an M.S. in library and information science from Columbia University.

Ian T. Foster

Co-Chair

IAN FOSTER (Co-Chair) is the Director of Argonne National Laboratory's Data Science and Learning Division, Argonne Senior Scientist and Distinguished Fellow and the Arthur Holly Compton Distinguished Service Professor of Computer Science at the University of Chicago. He was the Director of Argonne's Computation Institute from 2006 to 2016. Dr. Foster's research contributions span high-performance computing, distributed systems, and data-driven discovery. He has published hundreds of scientific papers and eight books on these and other topics. Methods and software developed under his leadership underpin many large national and international cyberinfrastructures. Dr. Foster received a BSc (Hons I) degree from the University of Canterbury, New Zealand, and a Ph.D. from Imperial College, United Kingdom, both in computer science. His awards include the Global Information Infrastructure (GII) Next Generation award, the British Computer Society's Lovelace Medal, R&D Magazine's Innovator of the Year, the IEEE Tsutomu Kanai award, and honorary doctorates from the University of Canterbury, New Zealand and CINVESTAV, Mexico. He is an elected Fellow of the American Association for the Advancement of Science, the Association for Computing Machinery, and British Computer Society.

Jean-Claude Burgelman

Member

JEAN-CLAUDE BURGELMAN is professor of Open Science at the Free University of Brussels. He retired in 2020 from the European Commission (EC) where he was in charge of Open Science at the Directorate-General for Research and Innovation (DG RTD). He and his team designed and developed the EC's policies on open science, the European Open Science Cloud, open data and open access. He joined the EC in 1999 as a Visiting Scientist in the Joint Research Centre where he was in charge of socio economic research on digital technologies. In January 2008, he moved to the Bureau of European Policy Advisers (attached to the president of the EC) and one year later joined DG RTD, where he created top level advisory boards like the European Research and Innovation Area Board, the Innovation for Growth Group and the European Forum for Forward Looking Activities. All these groups contributed to the design of the Framework programs for research and innovation of the European Union. Till 2000 he was full professor of communication technology policy at the Free University of Brussels, as well as director of its Centre for Studies on Media, Information and Telecommunication and was involved in science and technology assessment. Dr. Burgelman has been visiting professor at the University of Antwerp, the European College of Bruges and the University of South Africa and sits on several academic journals. He chaired the World Economic Forum's Global Agenda Council on Innovation and was a member of its Science Advisory Committee. He recently joined the advisory board of Open Knowledge Maps and became the editor in chief of Frontiers Policy Lab. In 2022 Dr. Burgelman became the director of the Frontiers Planet Prize, a new prize to stimulate science that can save the planet.

Stephen Diggs

Member

STEPHEN DIGGS is a Research Data Specialist with the University of California Office of the President (UCOP) where he is the Senior Product Manager for the data publishing portfolio at University of California Curation Center (UC3). Previously, Mr. Diggs was the Technical Director for the Hydrographic Data Office at the Scripps Institution of Oceanography at UC San Diego. Mr. Diggs has spent decades focusing his knowledge and expertise on the design and operation of full-stack information systems that deliver useful data to the research community. In addition to actively managing data, Mr. Diggs is a member of numerous international data and data science teams. Mr. Diggs continues to work directly with researchers in the field and as well in the lab and understands well the challenges and opportunities they face with managing the data as an integral part of their scholarly outputs.

Kelvin Droegemeier

Member

KELVIN DROEGEMEIER is Professor of Atmospheric Sciences and Special Advisor to the Chancellor for Science and Policy at the University of Illinois Urbana-Champaign (UIUC). He formerly was Regents' Professor of Meteorology, Weathernews Chair, and Roger and Sherry Teigen Presidential Professor at the University of Oklahoma (OU), where he served for nearly a decade as Vice President for Research. Before joining UIUC in August 2023, he was at OU for 38 years and co-founded and directed one of National Science Foundation's (NSF's) first Science and Technology Centers. He served two 6-year terms on the National Science Board, the last four years as Vice Chairman, nominated first by President George W. Bush and then by Barack Obama and confirmed both times by the U.S. Senate. He also served for two years as Oklahoma Cabinet Secretary of Science and Technology. Most recently, Dr. Droegemeier served for two years as Director of The White House Office of Science and Technology Policy (OSTP) and Science Advisor to the President. For two and a half months during this time, he also served as Acting Director of NSF. His research involves numerical simulation and prediction of high-impact local weather, and the assimilation of data into storm-resolving models. He is a Fellow of the American Meteorological Society and the American Association for the Advancement of Science, and has published more than 80 referred journal articles and over 200 conference publications.

Joshua Greenberg

Member

JOSHUA M. GREENBERG is a Program Director at the Alfred P. Sloan Foundation, responsible for the Technology and New York City programs. He established the Technology program shortly after joining the Foundation in 2010, and has since developed a portfolio of grantees ranging across data science, data curation, citizen science, scholarly communication, and open source research software. Dr. Greenberg received his B.A. in History of Science, Medicine and Technology from the Johns Hopkins University, and both M.A. and Ph.D. degrees from Cornell University's Department of Science & Technology Studies. His dissertation work on the early history of the consumer videocassette recorder and the invention of the video rental industry was published as "From Betamax to Blockbuster" by the MIT Press (2008). From 2007 to 2010, Dr. Greenberg was the New York Public Library's (NYPL's) first Director of Digital Strategy and Scholarship, where he found and led the Digital Experience Group as well as the NYPL Labs team. Prior to that he was Associate Director for Research Projects at George Mason University's Center for History and New Media, where he taught courses and workshops on digital history as well as helping to launch a number of innovative projects including Zotero and Omeka.

Ramanathan Guha

Member

RAMANATHAN GUHA is the founder and lead for DataCommons.org, a platform which synthesizes a wide range of data sets into a single knowledge graph, for use by students and researchers. He is the creator of widely used web standards such as RSS, RDF and Schema.org, and products such as Google Custom Search. Co-founder of Epinions.com and Alpiri, he is currently a Google Fellow and Vice President at Google. He has a Ph.D. in Computer Science from Stanford University, M.S. from University of California, Berkeley and B.Tech. in Mechanical Engineering from IIT Madras.

Sallie A. Keller

Member

SALLIE ANN KELLER (NAE) is chief scientist and associate director of the U.S. Census Bureau's Research and Methodology Directorate. She also holds an endowed distinguished professorship in biocomplexity and faculty appointments in the School of Medicine, Department of Public Health Services; School of Engineering and Applied Science, Department of Engineering Systems and Environment; and School of Data Science at the University of Virginia (UVA). As chief scientist, Dr. Keller will lead the Research and Methodology Directorate's research centers, each devoted to domains of investigation important to the future of social and economic statistics. The directorate collaborates with teams across the U.S. Census Bureau and with researchers around the country and the world to develop innovative scientific solutions and advances to ensure the Census Bureau remains a leader in economic and social measurement. Dr. Keller is a nationally recognized research scientist whose areas of expertise are social and decision informatics, statistical underpinnings of data science, and data access and confidentiality. She is a leading voice in creating the science of all data and advancing this research across disciplines to benefit society. Her prior positions include director of the Social and Decision Analytics Division within UVA's Biocomplexity Institute and Initiative; professor of statistics and director of the Social and Decision Analytics Laboratory within the Biocomplexity Institute of Virginia Tech; academic vice president and provost at University of Waterloo; director of the Institute for Defense Analyses Science and Technology Policy Institute; the William and Stephanie Sick Dean of Engineering at Rice University; head of the Statistical Sciences group at Los Alamos National Laboratory; professor of statistics at Kansas State University; and Statistics Program director at the National Science Foundation. Dr. Keller is an elected member of the U.S. National Academy of Engineering. She has served as a member of the National Academy of Sciences Board on Mathematical Sciences and Their Applications and the Committee on National Statistics, and as chair of the Committee on Applied and Theoretical Statistics. She is a fellow of the American Association for the Advancement of Science, an elected member of the International Statistics Institute, and a fellow and past president of the American Statistical Association. Dr. Keller earned her B.S. and M.S. in mathematics from the University of South Florida and her Ph.D. in statistics from Iowa State University.

Mary Lee Kennedy

Member

MARY LEE KENNEDY is executive director of the Association of Research Libraries (ARL) and leads the development of and implements its strategic direction. She builds on ARL's strengths as a leader and partner in the research and learning ecosystem, as a catalyzer of global opportunity and value through its suite of programs and initiatives, and as a culture that embraces innovation, diversity, and inclusion. Prior to coming to ARL, Ms. Kennedy was principal of the Kennedy Group, where she partnered with organizations to empower local and global communities to create and use knowledge that enhances lives. She has a wealth of experience in academic research libraries and knowledge corporations, most recently at New York Public Library (NYPL), where she held the position of chief library officer (2013–2016). Before going to NYPL, she served at Harvard University as senior associate provost for the Harvard Library (2011–2013) and executive director of Knowledge and Library Services, Harvard Business School (2004–2011). Prior to her roles at Harvard, she was director of the Knowledge Network Group at Microsoft (1998–2004). Ms. Kennedy earned her B.A. in social psychology and classics at University of Alberta and her master of library science at Louisiana State University.

Christine Kirkpatrick

Member

CHRISTINE KIRKPATRICK leads the San Diego Supercomputer Center's (SDSC) Research Data Services division, which manages large-scale infrastructure, networking, and services for research projects of regional and national scope. Her research is in data-centric AI, working at the intersection of ML and FAIR, with a focus on making AI more efficient to save on power consumption and 'time to science.' In addition to being PI of the EarthCube Office (ECO), Kirkpatrick founded the GO FAIR US Office, is PI of the West Big Data Innovation Hub, is on the Executive Committee for the Open Storage Network, and Co-PI of the NSF-funded Transboundary Groundwater Resiliency Research (TGRR)

network. She serves as the Secretary General of the International Science Council's Committee on Data (CODATA), co-Chairs the FAIR Digital Object Forum, is on the Advisory Board for the Helmholtz Federated IT Services (HIFIS), and served on the National Academies of Sciences' U.S. National Committee for the Committee on Data.

Shelley Stall

Member

SHELLEY STALL is the Vice President for the American Geophysical Union's (AGU's) Open Science Leadership Program and works with AGU's members, their organizations, and the broader research community to improve data and digital object practices with the ultimate goal of elevating how research data and software are managed, valued, and made as open as possible. The work of the Open Science Leadership team is to remove barriers towards making science more reproducible and transparent. We have compiled and developed resources that help our broad community move towards science practices that are more open and make data and software more accessible and interoperable, supporting complex, innovative, and multi-national challenges. AGU partners with ESIP on the Open Science and Data Help Desk, held at geoscience (and related) meetings worldwide including AGUs and the European Geosciences Union General Assembly. We work with the publishing community and supporting service providers to ensure proper attribution and credit for data and software citations that support published research articles. Learn more about Open Science and our projects at <https://www.agu.org/open-science> and <https://data.agu.org/projects>.

John G. Hildebrand

Ex Officio Member

JOHN G. HILDEBRAND (NAS), originally trained in chemistry, biology and biochemistry, is a neuroethologist whose research focuses on the neural mechanisms and behavioral roles of olfaction in insects including agricultural pests and disease vectors. Dr. Hildebrand has received many honors and awards, including election to the German National Academy of Sciences 'Leopoldina' (1998), Norwegian Academy of Science and Letters (1999), American Academy of Arts and Sciences (2001), U.S. National Academy of Sciences (2007), Royal Norwegian Society of Sciences and Letters Academy (2011), American Philosophical Society (2014), Brazilian Academy of Sciences (2019), and The World Academy of Sciences (2022). Following earlier faculty appointments at Harvard and Columbia Universities, he joined the University of Arizona in Tucson in 1985 as the founding head of its Department of Neuroscience. He currently is Regents Professor Emeritus of Neuroscience. Colleagues cite Dr. Hildebrand for his advocacy for general education in STEM and for access to and success in scientific careers for women and minorities, in addition to his work in neuroscience. He has been International Secretary of the NAS since 2014.