

# **Advancing Commercialization from the Federal Laboratories**

## **Committee**

### **Ruth L. Okediji**

#### **Co-Chair**

Ruth L. Okediji is the Jeremiah Smith, Jr., Professor of Law at Harvard Law School and Co-Director of Harvard University's Berkman Klein Center for Internet & Society. Professor Okediji is an expert in intellectual property law, innovation policy, and digital copyright. A foremost authority on the role of intellectual property in economic development, she has advised inter-governmental organizations, regional economic communities, and national governments on the effect of global intellectual property rules on innovation policy and social welfare. Professor Okediji served on the National Academies' Committee on the Impact of Copyright Policy on Innovation in the Digital Era (2010–2013). Professor Okediji is a graduate of the University of Jos and Harvard Law School.

### **Donald Siegel**

#### **Co-Chair**

Donald Siegel is Foundation Professor of Public Policy and Management and director of the School of Public Affairs at Arizona State University. He has written extensively on the managerial and public policy implications of technology transfer and academic entrepreneurship and has served as an editor of the Journal of Technology Transfer since 2002. From 2008 to 2016, he was dean of the School of Business at the University at Albany. Dr. Siegel previously chaired the National Academies' Committee on Best Practice in National Innovation Programs from Flexible Electronics (2010–2014) and was a member of the Committee on Capitalizing on Science, Technology, and Innovation from 2009 to 2016. In 2016, he was elected a fellow of the Academy of Management (AOM) and in 2020 was elected dean of the AOM fellows. Dr. Siegel holds a bachelor's degree in economics and master's and doctoral degrees in business economics from Columbia University.

## **Margo A. Bagley**

### **Member**

Margo A. Bagley is an Asa Griggs Candler Professor of Law at Emory University School of Law. She rejoined the Emory faculty in 2016 after a decade at the University of Virginia, School of Law, where she was most recently the Hardy Cross Dillard Professor of Law. Her scholarship focus includes issues relating to patents, biotechnology, and technology transfer and she helped develop the joint Emory University-Georgia Institute of Technology TI:GER technology commercialization education program. Professor Bagley served on the National Academies' Committee on University Management of Intellectual Property: Lessons from a Generation of Experience, Research, and Dialogue (2008–2011), as well as on the UN Convention on Biological Diversity's Ad Hoc Technical Expert Group on Digital Sequence Information on Genetic Resources (2018). She holds a B.S. degree in Chemical Engineering from the University of Wisconsin at Madison and worked in R&D for both the Procter & Gamble Company and the Coca Cola Company. She is a co-inventor on a U.S. patent for reduced-fat peanut butter, and also held research internships at Oak Ridge National Laboratory, Lawrence Livermore National Laboratory, AT& T Bell Laboratories, and the NASA Marshall Space Flight Center. She received her J.D. in 1996 from Emory University, where she was a Robert W. Woodruff Fellow and elected to Order of the Coif, and practiced law with Finnegan, Henderson, Farabow, Garrett & Dunner, LLP and Smith Gambrell & Russell, LLP.

## **Mary B. Campbell**

### **Member**

Mary Beth Campbell is Director of Corporate Partnerships at Caltech's Office of Technology Transfer and Corporate Partnerships, where she is responsible for developing and implementing Caltech's industry engagement and research partnership strategies. At Caltech, Dr. Campbell worked with inventors to understand and evaluate the commercial potential of inventions; she has also participated in patent decisions, and formulated and negotiated license agreements with startups and established companies. Prior to joining Caltech, Dr. Campbell was a research staff member at the Science and Technology Policy Institute, where she managed a team of researchers to study technology transfer practices at U.S. federal laboratories. Their findings were used to inform policy decisions by federal interagency working groups, and informed the October 2011 Presidential Memorandum on Accelerating Technology Transfer. Prior to working at the institute, Dr. Campbell was a senior acquisition analyst with the Department of Defense, and participated in the creation of a small office to perform analyses around portfolio management, competition within the defense industrial base, and metrics development.

Campbell earned her Ph.D. in applied physics from Harvard University in 2008 and her B.S. in mathematics from the University of San Francisco in 2003.

## **Wesley M. Cohen**

### **Member**

Wesley M. Cohen is Professor of Economics and Management and the Snow Family Professor of Business Administration in the Fuqua School of Business at Duke University. He also holds secondary appointments in Duke's Department of Economics and School of Law, is a Research Associate of the National Bureau of Economic Research, and is the founding Faculty Director of the Fuqua School's Center for Entrepreneurship and Innovation. With a research focus on the economics of technological change and R&D, Professor Cohen has examined the determinants of innovative activity and performance, considering the roles of firm size, market structure, firm learning, knowledge flows, university research, and the means that firms use to protect their intellectual property, with a particular focus on patents. He served on the National Academies' Committee on Management of University Intellectual Property (2008–2011), the Panel to Review Research and Development Statistics at the National Science Foundation (2003–2004), and the Committee on Intellectual Property Rights in the Knowledge-Based Economy (2000–2004). Dr. Cohen is a magna cum laude graduate of Yale University and holds a Ph.D. in economics, also from Yale University.

## **Mark S. Kamlet**

### **Member**

Mark S. Kamlet is University Professor of Economics and Public Policy and Provost Emeritus at Carnegie Mellon University, with joint appointments in the Department of Social and Decision Sciences in the Dietrich College of Humanities and Social Sciences and the Heinz College of Information Systems and Public Policy. Dr. Kamlet has served on the National Academies' Committee in Poison Prevention and Control, 2003–2004; Board on Population Health and Public Health Practice, 2002–2006; and the Committee on Management of University Intellectual Property, 2008–2011. He is an elected fellow of the American Association for the Advancement of Science. Kamlet earned his bachelor's degree in mathematics from Stanford University. He has a master's in mathematical statistics, a masters in economics, and a Ph.D. in economics from the University of California at Berkeley.

## **Arti K. Rai**

### **Member**

Arti Rai, Elvin R. Latty professor of law and the founding faculty director of the Center for Innovation Policy at Duke University School of Law, is an internationally recognized expert in intellectual property law, innovation policy, administrative law, and health law. Her current research focuses on incentives and pricing in life sciences innovation. From 2009 to 2010, Professor Rai led the Office of Policy and International Affairs at the U.S. Patent and Trademark Office. She has also served on the National Academies' Committee on Understanding the Global Public Health Implications of Substandard, Falsified, and Counterfeit Medical Products (2012–2013) and Committee on Strategies for Responsible Sharing of Clinical Trial Data (2013–2015), in addition to reviewing reports for other committees. Professor Rai graduated from Harvard College, magna cum laude, with a degree in biochemistry and history (history and science); attended Harvard Medical School for the 1987–1988 academic year; and earned a J.D., cum laude, from Harvard Law School in 1991.

## **Joel Waldfogel**

### **Member**

Joel Waldfogel is associate dean of MBA and MS Programs and the Frederick R. Kappel Chair in Applied Economics, Strategic Management, and Entrepreneurship at the Carlson School of Management of the University of Minnesota, an affiliated faculty member in the Economics Department and the Law School, and a Research Associate of the National Bureau of Economic Research. His main research interests are industrial organization and law and economics, and he has conducted empirical studies of price advertising, media markets, the operation of differentiated product markets, and issues related to digital products, including piracy, pricing, revenue sharing, and the value of new products. Dr. Waldfogel previously served as a member on the National Academies' Committee to Improve Research Information and Data on Firearms (2001–2005) and of the Committee on the Impact of Copyright Policy on Innovation in the Digital Era (2010–2013). Dr. Waldfogel received a B.A. in economics from Brandeis University and a Ph.D. in economics from Stanford University.

# John Wilbanks

## Member

John T. Wilbanks is the chief commons officer at Sage Bionetworks, where he works to promote the use of technology to pool medical data, creating a commons where information is integrated and accessible. Mr. Wilbanks is also a Senior Fellow at Faster Cures and Founder at Consent to Research. He co-founded the Access to Research campaign, which resulted in increased accessibility to results of federally funded scientific research, and he started a bioinformatics company called Incellico, which became a part of Selventa in 2003. Mr. Wilbanks serves on the board of directors for Impact Story and the tranSMART Foundation, as well as on the advisory boards for Boundless Learning, Curious, GenoSpace, and Patients Like Me.

Mr. Wilbanks served as a senior fellow at the Ewing Marion Kauffman Foundation, was a senior advisor for big data to the National Coordination Office, and has past affiliations with Massachusetts Institute of Technology's Project on Mathematics and Computation, which hosts Creative Commons, a nonprofit organization that enables knowledge sharing through free legal tools. He has also worked with Harvard University's Berkman Center for Internet & Society, the World Wide Web Consortium, the U.S. House of Representatives, and Creative Commons. He has numerous publications on data sharing, and a chapter titled "I Have Seen the Paradigm Shift, And It Is Us," in *The Fourth Paradigm: Data-Intensive Scientific Discovery* (Microsoft Research, 2009).

Mr. Wilbanks has prior National Academies experience, serving on the Planning Committee for the Workshop on 21st Century Clinical Trials (May – December 2018) and on the Committee on Developing Attribution and Citation Practices and Standards (2011 – 2012). He also has spoken at NAM meetings and events. Mr. Wilbanks received a B.A. in philosophy from Tulane University and studied modern letters at the Sorbonne.

## **Jetta Wong**

### **Member**

Jetta Wong is President of JLW Advising, where she advises clients on how to bring new clean energy technologies to the market. She works with laboratories, universities, and other innovation organizations to develop policies and programs focused on U.S. competitiveness and the commercialization of technologies that reduce carbon emissions. Wong is also a Senior Fellow in the Energy Innovation Program for the Information Technology and Innovation Foundation. From 2012 through 2016, Wong worked at the U.S. Department of Energy. She established the Office of Technology Transitions for the Department and served as its first director. Before OTT she was in the Office of Energy Efficiency and Renewable Energy, where she worked on clean energy manufacturing and led the office's National Laboratory Impact Initiative. While at DOE, Wong co-chaired the White House's National Science and Technology Council's Lab-to-Market initiative focused on creating economic impact from federally funded R&D. Before joining DOE, Wong worked for the U.S. House of Representatives' Committee on Science, Space, and Technology, where she helped establish and oversee energy and environment programs of the federal government. Prior to working for Congress, Wong worked for the Clean Energy Program of the Union of Concerned Scientists (UCS) and the Environmental and Energy Study Institute (EESI). Her career in energy started in Uzbekistan where she was a natural resources consultant on an anaerobic digestion development project. Wong holds a MPS in legislative affairs from George Washington University and a B.S. in natural resources and the environment from the University of Michigan.

## **Gail Cohen**

### **Staff Officer**