

The National Academies of
SCIENCES • ENGINEERING • MEDICINE

**Emerging Areas of Science, Engineering, and Medicine for the Courts
A Workshop**

February 24-25, 2021

Committee on Emerging Areas of Science, Engineering, and Medicine for the Courts:
Identifying Chapters for a Fourth Edition of The Reference Manual on Scientific Evidence

in collaboration with
The Federal Judicial Center

AGENDA

Wednesday, February 24, 2021

12:00 pm*	Welcome
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Committee Co-Chairs: **Kathleen McDonald O'Malley**, U.S. Court of Appeals for the Federal Circuit
Thomas D. Albright, Salk Institute for Biological Studies

12:10 pm	Overview of Reference Manual on Scientific Evidence
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Kathleen McDonald O'Malley, U.S. Court of Appeals for the Federal Circuit

12:25 pm	Challenges in Evaluating Scientific Evidence in Court
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Moderator: **Thomas Schroeder**,** U.S. District Court for the Middle District of North Carolina

Panelists: **Barbara Hervey**, Texas Court of Criminal Appeals
Patti B. Saris, U. S. District Court for the District of Massachusetts
Leonard P. Stark, U.S. District Court for the District of Delaware
Sarah S. Vance, U.S. District Court for the Eastern District of Louisiana

1:15 pm	Discussion with Committee
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1:35 pm	Q&A with Audience
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1:45 pm	Emerging Issues in the Climate and Environmental Sciences
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Moderator: **Paul Hanle**, Environmental Law Institute

Panelists: **Joellen L. Russell**, University of Arizona
Veerabhadran Ramanathan, Scripps Institution of Oceanography
Benjamin D. Santer, Lawrence Livermore National Laboratory
Donald J. Wuebbles, University of Illinois

2:30 pm	Discussion with Committee
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3:05 pm	Q&A with Audience
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3:15 pm	Break
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3:30 pm	Emerging Issues in Computer Science and Information Technology
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Moderator: **Josh Goldfoot**, U.S. Department of Justice

Panelists: **Jeremy Epstein**, National Science Foundation
Russ Housley, Vigil Security, LLC
Subbarao Kambhampati, Arizona State University
Alice Xiang, Sony AI

4:15 pm	Discussion with Committee
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5:00 pm	Q&A with Audience
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5:15 pm

Adjourn

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Thursday, February 25, 2021

12:00 pm	Welcome
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Committee Co-Chairs: **Thomas D. Albright**, Salk Institute for Biological Studies
Kathleen McDonald O'Malley, U.S. Court of Appeals for the Federal Circuit

12:10 pm	Emerging Issues in the Biological Sciences
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Moderator: **Ellen Wright Clayton**, Vanderbilt University

Panelists: **Dana Carroll**, University of Utah
Yaniv Erlich, Eleven Therapeutics and MyHeritage
Steven E. Hyman, Broad Institute of MIT and Harvard
Philip Sabes, University of California, San Francisco

1:00 pm	Discussion with Committee
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1:50 pm	Q&A with Audience
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2:00 pm	Break
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2:15 pm	Emerging areas in Psychology, Data, and Statistical Sciences
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Moderator: **Gary Marchant**, Arizona State University

Panelists: **Xiao-Li Meng**, Harvard University
Rebecca Doerge, Carnegie Mellon University
Daniel Kahneman, Princeton University
Goodwin Liu, California Supreme Court

3:00 pm	Discussion with Committee
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3:50 pm	Q&A with Audience
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4:00 pm	Concluding Thoughts
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Committee Co-Chairs: **Kathleen McDonald O'Malley**, U.S. Court of Appeals for the Federal Circuit
Thomas D. Albright, Salk Institute for Biological Studies

4:15 pm	Adjourn
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*All times U.S. Eastern

**Member of the workshop planning committee