

*The National Academies of*  
SCIENCES • ENGINEERING • MEDICINE

COMMITTEE ON NATIONAL STATISTICS

**Workshop on the Implications of Convergence for How the  
National Center for Science And Engineering Statistics Measures the  
Science and Engineering Workforce**

OCTOBER 22-23, 2020

**THURSDAY, OCTOBER 22**

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- 10:00-10:15 am EDT    **Welcome and plans for the workshop**
- BRIAN HARRIS-KOJETIN, Director, Committee on National Statistics  
BARBARA ENTWISLE, Steering Committee Chair, University of North  
Carolina, Chapel Hill
- 10:15-10:30 am EDT    **The National Science Foundation's interest in measuring  
convergence**
- ARTHUR LUPIA, Assistant Director, National Science Foundation  
Directorate for Social, Behavioral, and Economic Sciences
- 10:30-10:45 am EDT    **The National Center for Science and Engineering Statistics' goals  
for the workshop**
- EMILDA RIVERS, Division Director, National Center for Science and  
Engineering Statistics
- 10:45-11:10 am EDT    **Setting the stage: why is convergence important to measure?**
- JOSEPH DESIMONE, Stanford University and Carbon, Inc.
- 11:10-11:25 am EDT    **Break**

- 11:25-12:10 pm EDT    **Overview of NCSES' data collections, data products, and previous work in this area**
- GARY ANDERSON, Senior Science Resource Analyst, National Center for Science and Engineering Statistics
- 12:10-1:00 pm EDT    **Break**
- 1:00-1:30 pm EDT    **Definitions of convergence**
- Moderator: JULIE THOMPSON KLEIN, Wayne State University (Emerita) and Transdisciplinarity Lab at ETH-Zurich
- DAN STOKOLS, University of California, Irvine
- 1:30-2:50 pm EDT    **Convergence as practiced**
- Moderators: PRAMOD KHARGONEKAR, University of California, Irvine and JAMES BRITT HOLBROOK, New Jersey Institute of Technology
- LORA WEISS, Pennsylvania State University
- PETER SCHIFFER, Yale University
- DAN GALLAHAN, National Cancer Institute
- MARYANN FELDMAN, University of North Carolina, Chapel Hill
- 2:50-3:00 pm EDT    **Break**
- 3:00-4:00 pm EDT    **Outcomes and impacts of convergence**
- Moderators: KARA HALL, National Cancer Institute and JASON OWEN-SMITH, University of Michigan
- JULIA LANE, New York University
- ERIN LEAHEY, University of Arizona
- BEN JONES, Northwestern University
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**FRIDAY, OCTOBER 23**

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10:00-10:10 am EDT **Welcome and overview of Day 2**

BARBARA ENTWISLE, Steering Committee Chair, University of North Carolina, Chapel Hill

10:10-11:15 am EDT **Measurement efforts**

Moderators: JOLENE SMYTH, University of Nebraska and  
KARA HALL, National Cancer Institute

BETHANY LAURSEN, Michigan State University  
(with Nicole Motzer, National Socio-Environmental Synthesis Center  
and Kelly Anderson, University of Maryland)

MICHELE LAMONT, Harvard University

DANIEL MCFARLAND, Stanford University

11:15-11:30 am EDT **Break**

11:30 am -12:15 pm  
EDT **Measurement efforts (continued)**

Moderators: JAMES BRITT HOLBROOK, New Jersey Institute of  
Technology and PRAMOD KHARGONEKAR, University of California,  
Irvine

ISMAEL RAFOLS, University of Leiden, Netherlands

JOSHUA SCHNELL, Clarivate

12:15-1:15 pm EDT **Break**

1:15-2:15 pm EDT

**Panel discussion on implementation and feasibility**

Moderators: JASON OWEN-SMITH, University of Michigan and  
JOLENE SMYTH, University of Nebraska

GRAHAM KALTON, Westat

NORA CATE SCHAEFFER, University of Wisconsin

ANDREW ZUKERBERG, National Center for Education Statistics

2:15-3:30 pm EDT

**Summary of key themes and thoughts on how to move this work forward**

Steering committee members will reflect on key takeaways from the workshop, including:

- What would be the value in constructing national-level measures of convergence?
- What ideas and strategies would be most worth pursuing to push thinking on this initiative forward?
- What framework could NCSSES use for measuring convergence?
- What definitions and criteria would we consider appropriate and what are their limitations?
- What types of NCSSES products would be most valuable and for what audiences?
- What should NCSSES prioritize as part of its work in this area?

KARA HALL, National Cancer Institute

JAMES BRITT HOLBROOK, New Jersey Institute of Technology

PRAMOD P. KHARGONEKAR, University of California, Irvine

JULIE THOMPSON KLEIN, Wayne State University (Emerita) and  
Transdisciplinarity Lab at ETH-Zurich

JASON OWEN-SMITH, University of Michigan

JOLENE SMYTH, University of Nebraska

BARBARA ENTWISLE, University of North Carolina, Chapel Hill