

THE NATIONAL ACADEMIES
CENTER FOR EDUCATION
COMMITTEE ON SCIENTIFIC PRINCIPLES IN EDUCATION RESEARCH

SCIENCE, EVIDENCE, AND INFERENCE IN EDUCATION:
A WORKSHOP

AGENDA

WEDNESDAY, MARCH 7th

National Academy of Sciences Building
21st & C Streets, NW
The Lecture Room

7:30 am **Continental Breakfast**

8:00 am **Welcome & Goals for Workshop**
Richard Shavelson, Stanford University &
Chair, Committee on Scientific Principles in Education Research
Michael Feuer, Center for Education, National Research Council

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| <p>MORNING SESSION: SUPPORTING SCIENTIFIC QUALITY AT THE FEDERAL LEVEL</p> |
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8:45 am **Panel #1**
How Scientific Quality Is Conceived and Supported: Perspectives of Federal Research Managers Outside Education

Framing Questions:

- How do research organizations define scientific quality for both individual projects and programs or portfolios of work? How did these definitions develop and from where were they derived?
- What are the enabling conditions that allow research organizations to promote and sustain scientific quality in the projects and programs they support over time?
- What impediments have hindered quality and how have they been addressed?

Chair:

Robert DeHaan, Emory University

Panelists:

Norman Bradburn, NSF Social Behavioral and Economic Sciences Directorate
Susan Chipman, DoD Office of Naval Research
Sally Rockey, USDA Cooperative State Research Education & Extension Service
Richard Suzman, NIH National Institute of Aging

Discussant:

William Morrill, Caliber Associates

Q&A:

Committee and Audience

10:30 am **Break**

10:45 am

Panel #2

How Scientific Quality is Conceived and Supported: Perspectives of Federal Research Managers Inside Education

Framing Questions:

- Same as Panel #1

Chair:

Paul Holland, Educational Testing Service

Panelists:

C. Kent McGuire, Manpower Demonstration Research Corporation

G. Reid Lyon, NIH National Institute of Child Health and Human Development

Judith Sunley, NSF Education and Human Resources

Discussant:

Diane Ravitch, New York University and Brookings Institution

Q&A:

Committee and Audience

12:30 pm

Luncheon Discussion

Revitalizing Federal Education Research and Development: Improving the R&D Centers, Regional Educational Laboratories, and the 'New' OERI

Background:

- Vinovskis, Maris, A. "The Federal Role in Educational Research and Development." Brookings Papers on Education Policy: 2000. (See enclosed chapter.)

Chair:

Ellen Condliffe Lagemann, Spencer Foundation

Speaker:

Maris Vinovskis, University of Michigan

Q&A:

Committee and Audience

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| <p>AFTERNOON SESSION: THE INTERFACE OF RESEARCH & PRACTICE</p> |
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2:00 pm

Roundtable Discussion #1

Research & Reform: The Role of Research in Improving Educational Practice

Framing Questions:

- What is the nature, quantity, and quality of scientific evidence needed to act, scale up?
- In what ways can research provide guidance about various decisions in education policy and practice? What are its limitations?
- In what ways can research provide insights about alternative ways to solve problems? What are its limitations?

Chair:
Jere Confrey, University of Texas

Participants:
Christopher T. Cross, Council for Basic Education
Jeremy Kilpatrick, University of Georgia
Sharon Lewis, Council of Great City Schools
Stan Paz, Tucson Unified Public Schools (invited)
Steven Ross, University of Memphis
Nancy Songer, University of Michigan
Sam C. Stringfield, Johns Hopkins University & Baltimore City Schools
William Quinn, North Central Regional Educational Laboratory

Q&A:
Committee and Audience

3:30 pm **Break**

3:45 pm **Roundtable Discussion #2**
Quality & Utility: The Interaction of Research Quality and the Needs of Educational Decision-Makers

Framing Questions:

- Does “quality” mean the same thing to researchers as it does to the users of research? Should it?
- What are the characteristics of research that do influence educational decision-making, and what are the conditions under which it can drive change?
- Are there trade-offs required in achieving researchers’ standards of quality and consumers’ (policymakers, practitioners) standards for utility?

Chair:
Donald Barfield, WestEd

Participants:
Same as Roundtable Discussion #1

Q&A:
Committee and Audience

5:00 pm **End Open Session**

THURSDAY, MARCH 8th
Holiday Inn Georgetown
2101 Wisconsin Avenue, NW
Mirage I

8:00 am **Continental Breakfast**

8:30 am **Panel #3**
Scientific Evidence and Inference: Disciplinary Perspectives

Frame:

➤ Mislavy, Robert. “Basic Concepts of Evidentiary Reasoning” (See enclosed slides.)

Chair:

Robert Boruch, University of Pennsylvania

Panelists:

Robert Mislavy, Educational Testing Service & University of Maryland

Michael Agar, University of Maryland

Glen Cain, University of Wisconsin

Peter Tillers, Cardozo Law School

Larry V. Hedges, University of Chicago

Q&A:

Committee and Audience

10:30 am **Break**

10:45 am **Panel #3 Continued**

12:00 noon **Luncheon Discussion**
Review and Summary: Reflections on What We Have Learned

Chair:

Richard Shavelson, Stanford University

Rapporteurs:

David Klahr, Carnegie Mellon University

Michael Feuer, National Research Council

1:30 pm **End Open Session**