

The National Academies of
SCIENCES • ENGINEERING • MEDICINE

**WORKSHOP ON DEVELOPING A
METHODOLOGICAL RESEARCH PROGRAM
FOR LONGITUDINAL STUDIES**

The National Academies of Sciences, Engineering, and Medicine
Keck Center, Room 105
500 Fifth Street, NW, Washington DC 20001
June 5-6, 2017

The goal of this public workshop is to inform the development of a methodological research program for the types of longitudinal studies that are supported by the National Institute on Aging (NIA). The workshop will focus on challenges that are specific to longitudinal studies, and will aim to identify areas of research that could be pursued in order to benefit from emerging methods, new techniques, or other opportunities to enhance the data and increase efficiency. The workshop will contribute to the NIA strategic objective to “support the development of population-based data sets, especially from longitudinal studies, suitable for analysis of biological, behavioral, and social factors affecting health, well-being, and functional status through the life course.”

DAY 1, JUNE 5

- 9:00-9:10** *Welcome and Introductions*
Robert Hauser, University of Wisconsin
- 9:10-9:20** *Welcome on Behalf of the National Academies of Sciences, Engineering and Medicine*
Connie Citro, Committee on National Statistics
- 9:20-9:30** *National Institute on Aging Goals for the Workshop*
John Haaga, National Institute on Aging
- 9:30-10:10** *Overview of Longstanding Methodological Issues for Longitudinal Studies*
Graham Kalton, Westat
- 10:10-10:50** *Lessons from the UK Household Longitudinal Study: Understanding Society Innovation Panel*
Annette Jäcke, University of Essex
- 10:50-11:00** *Break*

11:00-12:30 *Optimizing Periodicity and Content*

Chair: Colm O'Muircheartaigh, University of Chicago

11:00-11:20 Research Needed on Periodicity and Potential Study Designs
Vicki Freedman, University of Michigan

11:20-11:40 Thoughts on Periodicity Research Based on the National Longitudinal Survey of Youth
Randy Olsen, Ohio State University

11:40-12:00 Alternatives to Periodic Data Collection
Marco Angrisani, University of Southern California

12:00-12:30 Summary and Floor Discussion
Colm O'Muircheartaigh, University of Chicago

12:30-1:30 *Lunch Break*

1:30-4:30 *Alternatives and Enhancements to Self-Reported Data*

Chair: Maria Glymour, University of California, San Francisco

1:30-1:50 Microbiome Data Collection in the Wisconsin Longitudinal Study
Pamela Herd, University of Wisconsin

1:50-2:10 Measuring Sleep and Activity Cycles Using Wrist Actigraphy
Phil Schumm, University of Chicago

2:10-2:30 Other Remote Sensing Opportunities for Unobtrusive Data Collection
Jeffrey Kaye, Oregon Health & Science University and Portland Veterans Affairs Medical Center

2:30-2:50 Consent and Confidentiality for Linked Data
Nancy Bates, U.S. Census Bureau

2:50-3:10 Record Linkages in Project Talent
Kelly Peters, American Institutes for Research

3:10-3:30 Linking Contextual Data to the Health and Retirement Study
Jennifer Ailshire, University of Southern California

3:30-3:40 *Break*

- 3:40-4:00 Using Survey Response Time Data to Model Cognition and Early Alzheimer's Disease
 Seth Sanders, Duke University
- 4:00-4:15 Insights on Research Needed Based on the Work of the Panel on Improving Federal Statistics for Policy and Social Science Research Using Multiple Data Sources and State-of-the-Art Estimation Methods
 Brian Harris-Kojetin, Committee on National Statistics
- 4:15-5:00 Summary and Floor Discussion
 Maria Glymour, University of California, San Francisco
- 5:00 Adjourn**

DAY 2, JUNE 6

- 9:00-9:05 Welcome Back**
- 9:05-10:35 *Reducing Respondent Burden and Increasing Participation***
 Chair: Robert Hauser, University of Wisconsin
- 9:05-9:25 New Interview Modes and Mixed Mode Data Collections to Reduce Respondent Burden and Increase Participation
 Mick Couper, University of Michigan
- 9:25-9:45 Efforts to Reduce Nonresponse in the National Center for Education Statistics Longitudinal Studies
 Chris Chapman, National Center for Education Statistics
- 9:45-10:05 Research Needs on Panel Conditioning Effects
 John Robert Warren, University of Minnesota
- 10:05-10:35 Summary and Floor Discussion
 Robert Hauser, University of Wisconsin
- 10:35-10:45 Break**

10:45-12:15 Cost Considerations and Cost Effectiveness Measures Specific to Longitudinal Studies

Chair: Annette Jäcke, University of Essex

Panelists:

Michaela Benzeval, University of Essex (*via phone*)

Stephen Smith, NORC

Brad Edwards, Westat

12:15-1:15 Lunch Break

1:15-2:30 Summary of Key Themes and Research Needs for Longitudinal Studies

Panelists:

Robert Hauser, University of Wisconsin

Maria Glymour, University of California, San Francisco

Annette Jäcke, University of Essex

Colm O'Muircheartaigh, University of Chicago

2:30-3:00 Wrap-up and Floor Discussion

3:00 Adjourn