



2013 American College of Epidemiology (ACE)
Annual Meeting Agenda

“Innovation in Epidemiology: Reframing Approaches to Research Questions”

Pre-Meeting Workshops: September 21-22 ACE Annual Meeting: September 23-24

Saturday, September 21

1:00-5:00 pm **Workshop 1:** Enhancing the Epidemiologist’s Research Toolbox: An Introduction to Systems Science (*Nunn*)
Minority Affairs Committee

[Event Flyer](#)

Goals: The purpose of the workshop is to introduce epidemiologists to the methods of systems science. The content will be aimed at the pre-doctoral level, but will be appropriate for investigators at any level who are interested in learning about systems science.

Objectives: To understand the strengths and limitation of epidemiologic thinking and methods. To appreciate how systems science can complement conventional epidemiologic methods to answer complicated research questions. To understand ways suites of models employing multiple modeling types can work synergistically to confer insight. To understand NIH’s approach to encouraging and supporting systems science research in the behavioral and social sciences.

Keynote Speakers:

Patricia L. Mabry, PhD, Acting Deputy Director, Office of Behavioral and Social Sciences Research, National Institutes of Health

Kelvin Choi, PhD, Division of Epidemiology and Community Health, University of Minnesota

Panelists:

David Mendez, PhD, Nathaniel Osgood, PhD, Bruce Lee, MD, and Stephen Eubank, PhD

Workshop 2: Writing a Successful K-series Grant [Cancelled]

Workshop 3: Application of Electronic Personal Health Records in Epidemiology Research [Cancelled]

6:00 pm Networking
 Minority Affairs Committee

Sunday, September 22

8:00 am-3:00 pm ACE BOD Meeting (*Collins*)

8:00 am-12 pm CONCURRENT WORKSHOPS

Workshop 4a: Introduction to Genetic Association Studies-Part I (*Segell*)

Goals: Attendees will gain an understanding the theory behind genetic epidemiology studies. The workshop will focus on genome-wide association studies and meta-analysis.

Objectives: To learn terms and concepts, databases, and methods used in genetic association studies.

Faculty:

Kira Taylor, PhD, Assistant Professor of Epidemiology and Population Health, School of Public Health and Information Sciences, University of Louisville

Rich Kerber, PhD, Professor of Epidemiology and Population Health School of Public Health and Information Sciences, University of Louisville

Guy Brock, PhD, Associate Professor of Bioinformatics and Biostatistics, School of Public Health and Information Sciences, University of Louisville

Workshop 5: Ethics, Epidemiology and Public Policy Decisions: A Case Example of Hydrofracking (*Beckham*)

[Detailed Agenda](#)

Goals: To discuss the ethical dilemmas that often arise when epidemiology is used to clarify potential human health risks in order to inform decision-makers, stakeholders, and the public when formulating and implementing controversial environmental health and regulatory policies.

Objectives: To discuss the ethical considerations that epidemiologists and clinicians face when epidemiologic studies and health impact assessments are used to make major social, public health, and economic decisions for a community using hydrofracking as a case example.

Faculty:

Drue H. Barrett, PhD, Lead, Public Health Ethics Unit, Office of Science Integrity, Office of the Associate Director for Science, Office of the Director, Centers for Disease Control and Prevention

Madelon Lubin Finkel, PhD, Professor of Clinical Public Health, Weill Cornell Medical College

Bernard D. Goldstein, MD, Professor Emeritus, Department of Environmental and Occupational Health, University of Pittsburgh School of Public Health

Patricia L. Meinhardt, MD, MPH, MA, Medical Director, OEM Consultation

Leonard Ortman, PhD, Senior Ethics Consultant, Public Health Ethics Unit, Office of Science Integrity, Office of the Associate Director for Science, Office of the Director, Centers for Disease Control and Prevention

Douglas L. Weed, MD, MPH, PhD, Founder, DLW Consulting Services, LLC

Thomas M. Weiser, MD, MPH, Portland Area Indian Health Service Medical Epidemiologist and IRB Chair (Chair ACE Ethics Committee)

8:00 am- 5:00 pm

WORKSHOP

Workshop 7: Using Mixed-Methods in Epidemiologic Research (*Jones*)

Goals: To be introduced to the basic features of mixed methods research as it is currently being used in the health sciences and to be introduced to (or review) the basics of qualitative research that when combined with quantitative research will be necessary to understand to engage in mixed methods research. To design the basic features of a mixed methods project using an existing project idea or a project that has already be conceptualized. This requires a participant to bring to the workshop a project idea in which both quantitative (e.g., instrument or numeric) data are being collected as well as qualitative (e.g., interviews, focus groups, observation or text or image) data. Participants are expected to bring a one-two page overview of the project addressing the problem, the key question, the data sources, and the significance of the study.

Objectives: To learn about the core characteristics of mixed methods research; learn about the 10 scientific features of mixed methods that have emerged in the last five years; learn about six different types of designs often used in health science mixed methods research; to review 1-2 published mixed methods studies in the health sciences that illustrate the practice of conducting mixed methods research; to learn about the use of qualitative research, the types of questions asked, the types of data collected, the forms of data analysis, and the interpretations and validity standards used. To design a good mixed methods title; to design data collection and analysis forms for both quantitative and qualitative research; to identify a type of mixed methods design to use, and to

provide a rationale for the use of the design and draw a diagram of the design noting methodological (validity) issues; to write a mixed methods question and study aim; to share a PowerPoint slide presentation of projects designed in the workshop.

Faculty:

John Creswell, PhD, Professor, Educational Psychology, University of Nebraska-Lincoln

1:00-5:00pm

CONCURRENT WORKSHOPS

Workshop 4b: Introduction to Genetic Association Studies-Part II (*Segell*)

Goals: Attendees will gain an understanding the practical application of genetic epidemiology studies. The workshop will focus on genome-wide association studies and meta-analysis.

Objectives: To apply GWAS and meta-analysis to a de-identified dataset.

Faculty:

Kira Taylor, PhD, Assistant Professor of Epidemiology and Population Health, School of Public Health and Information Sciences, University of Louisville

Rich Kerber, PhD, Professor of Epidemiology and Population Health School of Public Health and Information Sciences, University of Louisville

Guy Brock, PhD, Associate Professor of Bioinformatics and Biostatistics, School of Public Health and Information Sciences, University of Louisville

Workshop 6: Epidemiology in the Era of the Affordable Care Act (*Beckham*)

[Workshop Details](#)

Goals: To focus on the role and education of epidemiologists in the era of the affordable care act.

Objectives: To feature presentations on, “Learning from Evidence in a World of Big Data” and to focus on what epidemiologists will need to know and the competencies they will need to move what is learned from ‘big data’ into quality and affordable health care.

Faculty:

Sarah Priddy, PhD, Director of Research, Comprehensive Health Insights, Humana

Karen Worley, PhD, Research Lead, Comprehensive Health Insights, Humana

Margaret Pasquale, PhD, Principal Researcher, Comprehensive Health Insights, Humana

Mary Costantino, PhD, Clinical Research Consultant, Comprehensive Health Insights, Humana

Phil Schwab, PhD, Research Consultant, Comprehensive Health Insights, Humana

Carlton Hornung, PhD, MPH, Professor of Medicine, Director, Clinical Research, Epidemiology and Statistics Training Program, University of Louisville

Macarius Donneyong, MPH, PhD, Epidemiology Research Analyst, HealthCore, Louisville, KY

Charles Woods, MD, MPH, Director, Outcomes Research Unit, Department of Pediatrics, University of Louisville School of Medicine

Workshop 8: Case Method Teaching for Epidemiology and Public Health
[Cancelled]

3:00-5:00pm Council of Epidemiology Chairs Meeting (*Collins*)

6:30-8:30pm **Host Reception**
Louisville Belle
401 W River Road
Louisville, KY 40202

8:30-9:30 Associate Member Gathering
Louisville Belle Dock

Monday, September 23

7:30 am Breakfast (*Grand Foyer*)

8:00 am GENERAL SESSION (*Grand Ballroom C*)

Program Co-Chairs Welcome
Kristopher Fennie, PhD, MPH, MSc, Assistant Professor, Department of Epidemiology, Robert Stempel College of Public Health and Social Work, Florida International University

Claudia A Kozinetz, PhD, MPH, Professor and Head, Pediatrics-Epidemiology, Baylor College of Medicine

Local Host Greeting
Richard N Baumgartner, PhD, Professor and Chair, Epidemiology and Population Health, School of Public Health and Information Sciences, University of Louisville

- 8:15-9:00 am Keynote Address: "Innovation, Motivation & Activation"
Robert A Hiatt, MD, PhD, Professor and Chair, Department of Epidemiology and Biostatistics, School of Medicine, University of California San Francisco
- 9:00-9:45 am Presentation by Outstanding Contributor to the Field of Epidemiology
Professor Dame Valerie Beral, DBE, AC, FRS, Director, Cancer Epidemiology Unit, University of Oxford, Oxford England
- 9:45-10:00am Break (*Grand Foyer*)
- 10:00-11:30am **Plenary Session: *Epidemiologic Contributions to the Science of Team Science***
- Transdisciplinary research (team science) is a high priority for numerous funders and researchers. This session will highlight the value of team science, contributions from epidemiologists, factors affecting collaboration, and tools for measuring progress.
- Moderator:
Ross Brownson, PhD, Professor and Co-Director, Prevention Research Center, Washington University in St. Louis
- Speakers:
Andrea Foulkes, ScD
Associate Professor of Biostatistics
University of Massachusetts School of Public Health and Health Sciences
- Sarah Gehlert, PhD
E. Desmond Lee Professor of Racial and Ethnic Diversity
The Brown School, Washington University in St. Louis
- Robert A. Hiatt, MD, PhD
Professor and Chair
Department of Epidemiology and Biostatistics
University of California, San Francisco
- 11:30-11:45 Report from the Council of Chairs and Program Directors of Epidemiology Programs
John E Vena, PhD, University of Georgia
- Noon-5:30 pm Poster Session (*Grand Ballroom A*)
- 12:00-1:10pm Council of Epidemiology Chairs Luncheon (*Collins*)
- Department Chairs and Program Directors are welcomed.
Advance registration is required.
- 12:00-1:10pm CONCURRENT WORKSHOPS

Workshop A: Preserving Epidemiology's History (*Brown*)

Overview: This workshop is focused on the history of epidemiology – in particular, challenges of preserving historically significant archival material. Some of these materials relate to professional associations of epidemiologists and workers in related fields. Other materials have been developed by those interested in the history of epidemiology. Contemporary materials and collections are often housed on websites and may not exist anywhere else. Organizational records (agendas, minutes, reports) may be stored primarily on personal computers, and thus inaccessible outside the organization – and even to others within it. There is also no central catalog of what materials are available, nor are there inventories for all items. Though websites are a low-cost means of dissemination and preservation, changes in website hosting arrangements and platforms can lead webpages to become inaccessible and even lost, especially when the individuals who created them cease actively to maintain them. The workshop will provide a forum to discuss the needs of the field in regard to the preservation of archival materials and unpublished writings and to discuss possible approaches to addressing those needs.

D. Lilienfeld, MD, Ambit Bioscience, Inc.

Workshop B: Potential Benefits and Pitfalls of Payment for Publication in the Era of Open Access Journals (*Breathitt*)

Publications Committee

Overview: How can we help shape the future of open-access publishing, retain standards and transparency, and ensure continued security and dissemination of knowledge?

Richard Rothenberg, MD, MPH, FACP, Regents' Professor, Institute of Public Health, Georgia State University

Michael Cook, PhD, Investigator, Division of Cancer Epidemiology & Genetics, National Cancer Institute

Workshop C: Systems Science in Epidemiology (*Clements*)

Overview: This session will introduce epidemiologists to the methods of systems science. It will help the attendee to understand the strengths and limitations of epidemiologic thinking and methods and to appreciate how systems science can complement conventional epidemiologic methods to answer complicated research questions.

Patricia L. Mabry, PhD, Acting Deputy Director, Office of Behavioral and Social Sciences Research, National Institutes of Health

1:15-2:45pm

Plenary Session: *The Use of Non-Traditional Data for Epidemiologic Research*

This session will highlight uses of social media and other emerging data sources for disease surveillance and as a source of health-related information, as well as computational methods for the analysis of these data.

Moderator:

Sandra I Sulsky, MPH, PhD, Senior Manager, Applied Epidemiology, ENVIRON International Corporation

Speakers:

Theresa Cassidy, PhD
Inflexion, Inc.

Sumiko Mekaru, PhD, DVM, MPVM, MLIS
Surveillance Epidemiologist, HealthMap
Boston Children's Hospital

Sheana Bull, PhD
Professor and Chair, Community & Behavioral Health
Colorado School of Public Health, University of Colorado

2:45-3:00pm

Break (*Grand Foyer*)

3:00-4:30pm

CONCURRENT SPOTLIGHT SESSIONS

Session 1: Outstanding Research Communications (*Combs Chandler Publications Committee*)

Moderator:

Victoria Chia, PhD, MPH, Center for Observational Research, Amgen

Cara Frankenfeld, PhD, MS, Acting Director of Graduate Programs, Assistant Professor, College of Health and Human Services, George Mason University

Annals of Epidemiology 2012 Prize Paper
Relative Contributions of Biomarkers in Alzheimer's Disease
TJ Haight, WJ Jagust

Selected Abstracts

A Simple Model for Estimating Prevention Impact and Efficacy
MJ Pletcher, M Pignone, T Newman

Childhood Body Mass Index and the Risk of Endometrial Cancer in Adult Women in the Copenhagen School Health Records Register
J Aarestrup, M Gamborg, TIA Soresen, **JL Baker**

Antiepileptic Drug Compliance and Emergency Room Visit
PM Bakaki, SM Koroukian, CM Stein, K Kaiboriboon, JM Albert

Session 2: Advances in Occupational and Environmental Epidemiology
Methods (*Grand Ballroom C*)

Moderator:

Melissa J. Perry, ScD, MHS, Professor and Chair of Environmental and Occupational Health, School of Medicine and Health Sciences, The George Washington University

Speakers:

“Correlated biomarker measurement error and interaction: why you still haven't found what you're looking for”

Anna Pollack, PhD

Post Doctoral Fellow, Epidemiology Branch

Eunice Kennedy Shriver National Institute of Child Health and Human Development

“Is left truncation introducing more bias in occupational studies than the healthy worker effect?”

Kate Applebaum, ScD

Assistant Professor, Epidemiology

Boston University School of Public Health

“Use of narrative text data to improve occupational injury epidemiology”

David A. Lombardi, PhD

Senior Research Scientist

Liberty Mutual Institute for Safety

Session 3: The Role of Epidemiology and Public Health in Translational Science
(*Breathitt*)

Ethics Committee

Moderator:

Kenneth W Goodman, PhD, Professor of Medicine and Director, Bioethics Program, University of Miami

Speakers:

“Expanding the Role of Epidemiologists in Clinical Translational Research”

Brad H Pollock, MPH, PhD

Professor and Chair, Department of Epidemiology and Biostatistics

School of Medicine
University of Texas Health Science Center – San Antonio

4:30-5:30pm Posters with the Authors (*Grand Ballroom A*)

5:30-6:15pm ACE Business Meeting (*Combs Chandler*)

Tuesday, September 24

8:00am-12pm AWARD POSTERS (Grand Ballroom C)

7:15-8am BREAKFAST ROUNDTABLES (*Carroll Ford*)

1. Mendeley: Emerging Technology & Cross Collaboration
Kate Williamson from Elsevier

2. Excellence in Practice: An Ethical Obligation
Robert McKeown, PhD, FACE, Distinguished Professor Emeritus, Interim
Director, Institute for the advancement of Health Care USC-GHS Academic
Health System

3. Epidemiology and Disasters
Lorna Thorpe, PhD, Professor and Program Director, Epidemiology and
Biostatistics, Hunter College, CUNY School of Public Health

4. Conflict of Interest
Douglas L. Weed, MD, MPH, PhD, Founder, DLW Consulting Services, LLC.

5. Conversation with Dr. Beral-ACE Outstanding Contributor Awardee
Professor Dame Valerie Beral, DBE, AC, FRS, Director, Cancer Epidemiology Unit,
University of Oxford, Oxford England

6-8. Epidemiology Careers: Industry, Government & Academic
Vicky Chia, PhD, MPH, Center for Observational Research, Amgen

Diana Bensyl, PhD, MA, CAPT, USPHS, Acting Director, Division of Applied
Sciences, Scientific Education and Professional Development Program Office,
Office of Surveillance, Epidemiology, and Laboratory Science, Centers for
Disease Control and Prevention

Leslie Bernstein, PhD, Professor and Director of the Department of Cancer
Etiology, Division of Population Sciences, City of Hope National Medical Center

8:15-8:45am ACE Presidential Address (*Grand Ballroom C*)
Edward J. Trapido, ScD, FACE, Louisiana State University School of Public Health

8:45-9am Doctoral Student Prize Paper
“The Spatiotemporal Characteristics of Seasonal Influenza in the United States, 1968-2008”
Bianca Malcolm, PhD, MPH
Associate Service Fellow, National Center for Health Statistics, Division of Vital Statistics, Mortality Statistics Branch

9-10:15am **Plenary Session: *Using Mobile Technology for Epidemiologic and Behavioral Research***

This session will discuss trends in the adoption and use of mobile technology for health research. It will also examine the promises and challenges with analyzing surveillance and behavioral data that can be captured using mobile devices.

Moderator:

Edward J Trapido, ScD, FACE, Professor and Chair, Cancer Epidemiology, Louisiana State University School of Public Health

Speaker:

Wendy J. Nilsen, PhD
Health Scientist Administrator
Office of Behavioral and Social Sciences Research
National Institutes of Health

10:15-10:30am Break (*Grand Foyer*)

10:30-12pm **Plenary Session: *The Use of Electronic Health Records Systems in “BIG” Epidemiology***

This session will consider practical and ethical issues related to the potential, future use of large, electronic health records (EHR) systems to conduct “BIG” epidemiologic studies, including the recruitment of participants and collection or biorepositories, and computational methods for conducting surveillance, etiologic studies, comparative effectiveness and outcomes research.

Moderator:

Richard N. Baumgartner, PhD, Professor and Chair, Epidemiology and Population Health, School of Public Health and Information Sciences, University of Louisville

Speakers:

“Combining Multiple Distributed EHRs for Public Health Research”

Brennan O’Bannion, MPH (ABD)
Kentucky Health Exchange & University of Louisville
Department of Epidemiology and Population Health

“Use of EHR in Environmental Epidemiology”

Brian Schwartz, MD, MS

Professor, Environmental Health Sciences and Epidemiology
Johns Hopkins Bloomberg School of Public Health

“Big Genetic Epidemiology”

Dana Crawford, PhD

Associate Professor of Molecular Physiology & Biophysics
Vanderbilt University

12:15-2:00pm

AWARDS LUNCHEON – All members are welcome! (*Carroll Ford*)

Host & Chair, Awards Committee: Sandra I Sulsky, MPH, PhD, Senior Manager,
Applied Epidemiology, ENVIRON International Corporation