Workshops ACE Annual Meeting 2015

1. Workshop: (Half-Day): Teaching Ethics in Epidemiology
Sunday, September 27, 2015 – 8:00am – 12:00pm

Instructor(s):   Ken Goodman, PhD, and Cathy Striley, PhD, MSW, MPE

Description: Evolution of the field (issues: from surveillance and vaccination to release of genetically modified mosquitoes to control breeding); Introduction of ethics into the epidemiology curriculum; role of ACE; Challenges and uptake; Is ethics required for accreditation of schools of public health? Why not? Resources to teach ethics in epidemiology will be discussed.

2. Workshop (AM Session): Epi Info™ 7: A Users Workshop – Data Collection Strategies
Sunday, September 27, 2015 – 8:30am – 12:00pm

Facilitators
José Aponte
Epi Info team members (TBD)

Epi Info™ is a public domain suite of software tools designed for the global community of public health practitioners and researchers. It provides for easy data entry form and database construction, a customized data entry experience, and data analyses with epidemiologic statistics, maps, and graphs for public health professionals who may lack an information technology background. Epi Info™ is used for outbreak investigations; for developing small to mid-sized disease surveillance systems; as analysis, visualization, and reporting (AVR) components of larger systems; and in the continuing education in the science of epidemiology and public health analytic methods at schools of public health around the world.

This workshop will provide an overview of the data collection aspects of Epi Info™. Participants will learn how to quickly design data collection forms using the Epi Info™ Form Designer and explore various options for collecting data using these forms; over the web or through mobile phones and tablets. These presentations will be followed by interactive learning opportunities conducted in small groups.

Participants are requested to bring their own laptops running Microsoft Windows (XP or above) with capability to connect to the conference's wireless Internet.

Learning Objectives:
- Understand how to develop data collection forms in Epi Info™ 7.
- Understand how to publish data collection forms on a website and download responses.
- Understand how to use Epi Info™ data collection forms on tablets and smartphones.
- Identify the appropriate Epi Info™ data collection tool for a given scenario.
- Get specific Epi Info™ questions answered by an Epi Info™ expert.

2. Workshop (PM Session): Epi Info™ 7: A Users Workshop – Data Analysis and Visualization
Sunday, September 27, 2015 – 1:00pm – 4:30pm

Facilitators:
José Aponte
John Copeland

Epi Info™ is a public domain suite of software tools designed for the global community of public health practitioners and researchers. It provides for easy data entry form and database construction, a customized data entry experience, and data analyses with epidemiologic statistics, maps, and graphs for public health professionals who may lack an information technology background. Epi Info™ is used for outbreak investigations; for developing small to mid-sized disease surveillance systems; as analysis, visualization, and reporting (AVR) components of larger systems; and in the continuing education in the science of epidemiology and public health analytic methods at schools of public health around the world.

This workshop will provide an overview of the data analysis and visualization aspects of Epi Info™. Participants will learn how to set up dashboards to analyze data that was collected using Epi Info™, data that was collected on Excel spreadsheets and imported into Epi Info™, and data residing on enterprise or cloud databases. They will explore the various statistical analyses that can be performed using Epi Info™ and learn the limitations and appropriateness of each for a given data set. Participants will also learn how to load their data onto Epi Info™ Map to generate case cluster, dot density, and choropleth maps. These presentations will be followed by interactive learning opportunities conducted in small groups. Group exercises will consist of hands-on use of these tools to analyze and visualize various data sets and share results.

Participants are requested to bring their own laptops running Microsoft Windows (XP or above) with capability to connect to the conference's wireless Internet.

Learning Objectives:
- Understand how to create Epi Info™ 7 analytic dashboards.
- Understand how to perform statistical analysis on different types of data sets.
- Understand how to generate maps on Epi Info™ to visualize geographic data.
- Get specific Epi Info™ questions answered by an Epi Info™ expert.

3. Workshop (Half-Day): Social Media in disease surveillance and epidemiology research using Chatter Grabber
Sunday, September 27, 2015 – 1:00pm – 5:00pm

Workshop Leaders: John Schmitt and Bryan Lewis, PhD MPH

Description: ChatterGrabber is a toolkit for collecting, managing, and conducting preliminary analysis of social media acquired data. This workshop will introduce ChatterGrabber, cover issues surrounding the use of social media acquired data for public health, and will provide a hands-on experience with collecting and analyzing it.

4. Workshop (Full Day): Simulating data using SAS
Sunday, September 27, 2015 – 8:00am – 5:00pm

Workshop Leader: Michael Speed, PhD, SAS Global Academic Program

Description: In this workshop, attendees will learn basic principles and programming skills in order to simulate multivariate data. We will discuss generating data with various distributions of different hypothetical variables. The workshop will be approached in the context of simulating data for power analyses. In conjunction with using simulation, comparisons will be made with results obtained from the power procedure. Topics will include one, two, and multiple populations; factorial design; ANCOVA; mixed models; and repeated measures mixed models. This will be a hands on workshop; attendees will need to bring their computers. The focus will be on using *proc IML* (interactive matrix language); attendees need not be familiar with the procedure, but should have a strong grounding in SAS programming. At the end of this workshop, attendees should be able to (i) identify uses for simulating data, (ii) apply and adapt programming examples to assess power and effect size, (iii) design and integrate simple simulation programs to meet attendees' own needs.