



## Workshop on Scenarios of U.S. Demographic Change

June 23-24, 2014

Hilton Washington DC/Rockville Hotel & Executive Meeting Center  
1750 Rockville Pike, Rockville, MD 20852  
(Plenary Room: Roosevelt)

*(Breakfast will be available from 9:00-10:30 at the Patio Foyer.<sup>1</sup>)*

### **I. Monday a.m.: Welcome and overview (11:00-12:00)**

**Session Chair: Richard Moss, Joint Global Change Research Institute, DOE Pacific Northwest National Laboratory**

- 11:00-11:10 Welcome and USGCRP perspective (Bob Vallario, U.S. Department of Energy)  
11:10-11:20 Welcome, meeting goals, overview of agenda (Brian O'Neill, National Center for Atmospheric Research - NCAR)  
11:20-11:40 Overview of use of population projections in global and environmental change applications (Brian O'Neill, NCAR) (15 min + 5 min discussion)  
11:40-12:00 Overview of challenges in projecting demographic change (Deborah Balk, Baruch College/ The City University of New York - CUNY (15 min + 5 min discussion)  
12:00-1:00 Lunch (at Patio Foyer)

### **II. Monday P.M.: User needs (1:00-5:30)**

**Session Chair: Mark Montgomery, Population Council**

**Monday p.m. session goal:** *Understand key user needs for population scenarios, in order to guide the scenario production effort.*

- 1:00-3:00 *Plenary Talks: 20 min + 10 min discussion*
- 1:00-1:30 An initial view on user needs from a state demographer (David Egan-Robertson, University of Wisconsin-Madison)  
1:30-2:00 Use of population projections in climate change impacts and vulnerability research (Ben Preston, Oak Ridge National Laboratory)  
2:00-2:30 Population scenarios to inform predictive health models of climate change impacts (John Balbus, U.S. Department of Health and Human Services)  
2:30-3:00 Break (light refreshments at Patio Foyer)  
3:00-4:30 *Breakout groups on user needs, each addressing the questions below.*

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<sup>1</sup> The Patio Foyer is across from the Meeting Concierge Desk in the Executive Center.



Break-out Discussion Groups:

- Group 1 Chair: Anne Grambsch, US EPA (Roosevelt Room)
- Group 2 Chair: Richard Moss, Joint Global Change Research Institute (Wilson Room)
- Group 3 Chair: Budhu Bhaduri, ORNL (Truman Room)

Key questions to address:

- What characteristics of population, spatial/temporal scales, and types of scenarios are most important to users, and for what purpose?
  - Population characteristics: size, age, sex, urban/rural, income, education, etc.
  - Spatial scales of interest: national, state, county, grid, eco-region, etc.
  - Temporal scales of interest: <1 year, 10 years, 50 years, 100 years, etc.
  - Types of scenarios: central/business as usual, extreme outcomes, types of variants, uncertainties that are important to cover, etc.

4:30-5:30      *Report back to plenary in Roosevelt Room (10 min each plus discussion)*

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**Day 2 of Workshop**

*(Breakfast will be available from 7:30-9:00 at the Patio Foyer.<sup>2</sup>)*

**III. Tuesday a.m.: Methods and data (8:30-12:00)**

**Session Chair: Budhu Bhaduri, DOE Oak Ridge National Laboratory**

**Tuesday a.m. session goal:** *Understand feasibility of producing projections of various population characteristics and geographic scales, limitations and opportunities in terms of data and methods.*

8:30-10:00      *Plenary Talks: 20 min + 10 min discussion*

8:30-9:00      Approaches to projections for states and smaller regions (Stan Smith, University of Florida)

9:00-9:30      Spatial projections of housing units with the ICLUS model (Dave Theobald, Conservation Science Partners)

9:30-10:00      Data challenges for spatial population projections (Bryan Jones, The City University of New York - CUNY)

10:00-10:30      Break (light refreshments at Patio Foyer)

10:30-12:00      *Breakout groups on methods and data, each addressing the questions below.*

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<sup>2</sup> The Patio Foyer is across from the Meeting Concierge Desk in the Executive Center.



Break-out Discussion Groups:

- Group 1: Focused on consistency across scales - Chair: Roger Hammer, Oregon State University (Roosevelt Room)
- Group 2: Focused on urban community considerations - Chair: Deborah Balk, Baruch College/CUNY (Wilson Room)
- Group 3: Focused on rural community considerations - Chair: Ken Johnson, University of New Hampshire (Truman Room)

Key questions:

1. What approaches to projections at sub-national scales are available or on the horizon?
2. What are the key challenges to producing projections for different population characteristics, and spatial/temporal scales?
3. Given user needs, what types of projections appear to be feasible and most likely to meet those needs?

12:00-1:00 Lunch (at Patio Foyer)

**IV. Tuesday p.m.: Global and societal context (1:00-5:15)**

**Session Chair: Deborah Balk, Baruch College/ The City University of New York**

*Tuesday p.m. session goal: Understand pros and cons of linking US scenarios to global scenario exercises, consider what other socioeconomic factors would be important to demographic projections, and recommend process for carrying forward the US scenarios activity.*

1:00-1:45 Report back from morning breakouts (10 min each plus discussion)

1:45-3:00 Plenary talks: 15 min each + 5 min questions

1:45-2:00 Overview of global scenarios and the new climate change scenario process (Brian O'Neill, NCAR)

2:00-2:20 Demographic components of the new societal scenarios for climate change research (Leiwun Jiang, NCAR)

2:20-2:40 Determinants of US national population change (Steve Murdock, Rice University)

2:40-3:00 Determinants of US regional population change (Mark Partridge, Ohio State University)

3:00-3:30 Break (light refreshments at Patio Foyer)

3:30-4:30 Breakout group discussions, addressing the questions below, each taking a different one as a starting point

Key questions:

Break-out Discussion Groups:



- Group 1 Chair: Mark Montgomery, Population Council (Roosevelt Room)
  - How important would it be to have US population scenarios that are consistent (in some way) with global scenarios? What global scenarios might it be useful for US scenarios to be consistent with? What forms of consistency are possible and appropriate?
- Group 2 Chair: Brian O’Neill, NCAR (Wilson Room)
  - What non-demographic factors would be most important to consider in producing demographic scenarios?

4:30-5:15      *Report back to plenary in Roosevelt Room (10 min each plus discussion)*

**V.      Closure: Workshop Synthesis**

***Session Chair: Brian O’Neill, National Center for Atmospheric Research***

5:15-6:00      Synthesis of meeting recommendations and discussion of possible next steps