

**CLIMATE CHANGE, AGRICULTURAL PRODUCTION, & WATER RESOURCES  
A Regional Science Forum for the Mid-Atlantic**

**June 23, 2010  
Holiday Inn and Conference Center**

5400 Holiday Drive  
Frederick, MD 21703  
301-694-7500  
<http://www.hifrederick.com/contact.php>

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**8:00 am Registration with Continental Breakfast**

**8:30 am Welcome and Opening Remarks**

**8:45 am Setting the Stage** (20 min ppt, 5 min Q&A)

Climate projections for assessing hydrological and agricultural impacts in the Mid-Atlantic Region  
*Ray Najjar, Penn State University*

Impacts of Climate Change on Agricultural Production in the Region and Around the World  
*David Abler, Penn State University*

Assessing Risk and Planning for Impacts  
*Chris Pyke, US Green Building Council*

**10:00 am Break**

**10:15 am Discussion** – Sector-specific Concerns and Decision-making Needs (30 min/sector)

1. What is/are the key climatological factor/s affecting production success?
2. What are the key economic (local and global) factors affecting production success?
3. What environmental concerns need to be addressed? Specifically relating to water resources (e.g. ground and surface water consumption and pollution), energy production for the grid (e.g. biofuels stock production) and for farm needs (e.g. anaerobic digesters), and greenhouse gas reduction on the farm and in the wider industry.

Row Crops (Corn, Soybeans, and Vegetable Crops)  
*Dave Hansen, University of Delaware*

Cattle, Dairy, and Poultry Operations  
*Jim Pease, Virginia Tech*

**11:15 am Climate Scientists Panel: Applying Models to Our Concerns**

Introduction to their work and thoughts on how to apply models to provide tools that will address discussed concerns (20 minutes each)

*Moderator: Daphne Pee*

- *Harold van Es, Cornell University*
- *Allison Thomson, Joint Global Change Research Institute*

- *Norman Breuer, University of Miami and University of Florida*
- *Bala Prasad, Earth Systems Science Interdisciplinary Center*

**12:35 pm Lunch (Provided)**

**1:45 pm Brainstorming Session/Discussion** – Responding to Climate Change

Based on earlier discussion participants will discuss the types of models and risk assessments that need to be developed and their application purposes. Participants will also identify any field-level research needs to ensure greater accuracy of models.

- What audience(s) need to be addressed? What are the priorities?
  - How → What tools, models, programs, systems will we need?
  - Feasibility → What do we need to ensure development and implementation?
  - Timeline → Are we addressing all the timescales (e.g. near-term adaptation strategies, long-term decision-making systems)? Do we need to?
- What are the research gaps?

**3:15 pm Next Steps and Closing Remarks**

- Data synthesis and publication development?
- Mechanisms to continue discussions?
- Funding opportunities?

**3:30 pm Adjourn**