



REACCH
Regional Approaches
to Climate Change –
PACIFIC NORTHWEST AGRICULTURE

THIRD ANNUAL MEETING
Red Lion Hotel
Richland Hanford House
(509) 544-3901
March 5-7, 2014

Unless denoted otherwise, all sessions take place in the Columbia/Benton-Franklin Ballroom

Tuesday, March 4: Arrivals, dinner on your own, team meetings, etc.

Wednesday, March 5: Stakeholder Day

Objectives:

- Present overview, relevant research and ongoing activities to stakeholders
- Garner stakeholder input and feedback with interactions between stakeholders, researchers, students, and our Scientific Advisory Panel (SAP)
- Showcase stakeholder relevant projects from students and researchers

Breakfast – Riverside Lounge, no host

8:00 - 8:15 **Welcome and Housekeeping** Sanford Eigenbrode, Project Director and Dianne Daley Laursen, Project Manager

8:15 - 8:30 **Introducing Assessment** David Meyer, Project Evaluator

8:30 - 8:50 **Welcome and Overview: Introductions and Roles of Stakeholders** Sanford Eigenbrode, Project Director

8:50 - 9:40 **Speed Science Session I**

- Where There's a Will There's a Way: Producers' Needs and Willingness to Change Production Practices (Leigh Bernacchi)
- Dynamic Agroecological Classes: Charting Cropping System Shifts and Changes (Dave Huggins)
- Integration of Oilseeds and Legumes into Cropping Systems (Bill Pan)
- Longitudinal Survey: Growers' Responses to Questions from REACCH Scientists (Hilary Davis)
- Road-testing Nitrous Oxide Emissions Protocols in the PNW (Chad Kruger)
- Tillage and Cropping Intensity on Important Soil-health Indicators and Processes (Jason Morrow)

9:40 - 10:00 **Panel Discussion and Q & A on Speed Science I**

10:00 - 10:30 **Break**

10:30 - 11:20 **Speed Science Session II**

- Agriculture and Climate Change Education in K-12 Classrooms (Kat Wolf)
- Long-term Declines in Carbon Fluxes from the Palouse (Erin Brooks)
- Downy Brome Management Under Future Climate Scenarios (Ian Burke)
- Economic Impact Assessment of Climate Change on Agricultural Land Use in the PNW (Elena Mu)

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REACCH is funded through Award #2011-68002-30191 from USDA National Institute for Food and Agriculture

- Climate and Spatial-temporal Distribution of Winter Wheat Yields: Evidence from the US (John Antle)

11:20 - 11:40 **Panel Discussion and Q & A on Speed Science Session II**

11:40 - 12:00 **Synopsis and Wrap-up** Kristy Borrelli, Extension Specialist

12:00 - 1:00 **Lunch**

1:00 - 2:00 **Case Study Teaser – Precision Agriculture**

- Significance of Precision Agriculture to REACCH (Kristy Borrelli, Extension Specialist)
- Precision N management: Developing Science-Based Practices (Dave Huggins, USDA-ARS)
- REACCH Farmer-to-Farmer Case Study Series Video: Precision Nitrogen Application
- Eric Odberg (Grain Producer, Genesee, ID)
- Dave Barton (Product Sales Representative, Trimble Navigation Limited)
- Q&A on Precision Agriculture

2:00 - 2:15 **Break**

2:15 - 3:30 **Stakeholder Perspectives on Climate Change, Agriculture and REACCH: An Interactive Panel**, Chad Kruger, Director Center for Sustaining Agriculture and Natural Resources

Panelists:

- **Dave Barton** (Product Sales Representative, Trimble Navigation Limited)
- **Eric Odberg** (Wheat Grower Genesee ID)
- **Jim Fitzgerald** (Executive Director, FarWest Agribusiness Association, Inc.)
- **Teresa Koper** (Senior Project Analyst - The Climate Trust)
- **Bill Flory** (District 2 Commissioner – Idaho Wheat Commission)

3:40 - 4:30 **Graduate Student Extension and Education Project Showcase**

- Emergence capabilities of wheat and canola (Madsen and Beard)
- *Rhizoctonia* barepatch and the green bridge (Lawrence, Beard, Aujla)
- A soil/terrain geospatial database to support soil carbon modeling/estimation (Flathers)
- Effects of tillage, soil and plant communities on water infiltration and erosion (Walsh, White, Boylan, Donlon, and Foote)
- Comparison of CropSyst and statistical yield models (Zhang and Karimi)
- Design of agricultural field activities and basic climate modeling lessons for REACCH (Li and Chi)
- Visualizing the N cycle with an interactive model (Mclellan Maaz and Waldo)
- Effect of Carbon dioxide on Spring Wheat Growth and Development (Morrow, Kaur, Madsen)

4:30 - 5:00 **Break**

5:00 - 7:30 **Poster Session I** and Kennewick/Pasco/Richland Rooms; Refreshments and heavy appetizers, Ripples Restaurant

7:30 - 8:30 **REACCH band**, Ripples Restaurant

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Thursday, March 6: REACCH Team Integration I

Objectives:

- Showcase and improve project-wide integration and communication
- Project-wide assessment report and activities
- Presentations by guests relevant to REACCH networking
- Engage and involve students

6:45 - 8:00 **Breakfast**, Ripples Lounge

7:00 - 8:00 **Graduate Students and SAP Breakfast**, location TBD

8:00 - 9:30 **Integration: Toolbox Insights** Michael O'Rourke, Seth Davis, Sanford Eigenbrode, Tai McClellan Maaz, Hongliang Zhang, Brad Stokes and Chelsea Walsh, facilitators

9:30 - 10:00 **Break**

10:00 - 11:30 **A "Global Café": What our Social Network Analysis Tells us and How to Respond?** David Meyer

11:30 – 12:00 **Data Management and Cyberinfrastructure Update** Paul Gessler and Erich Seamon

12:00 - 1:00 **Lunch with speaker**

USDA PNW Climate Hubs Bea Van Horne, USDA PNW Climate Hub Director

1:00 - 1:40 **Integration: Site Specific Climate Friendly Farming** David Brown, facilitator

1:40 - 2:20 **Integration: Biotic Factors** Ian Burke, facilitator

2:20 - 3:00 **Integration: Emissions Monitoring** Brian Lamb, facilitator

3:00 - 3:30 **Break**

3:30 - 4:10 **Integration: RAPS (Representative Ag. Pathways)** John Antle, facilitator

4:10 - 4:50 **Integration Producer Survey** JD Wulfhorst, facilitator

4:50 - 5:00 **Wrap-up**

5:00 - 6:30 **Social hour and Poster session II** Kennewick/Pasco/Richland Rooms

6:30 - 7:30 **Dinner with speaker** – Ripples Restaurant

USDA LTAR Network new Developments and REACCH (Huggins et al.)

7:30 p.m. **REACCH Awards**

Friday, March 7: REACCH Team Integration II

Objectives:

- Receive SAP feedback
- Discuss stakeholder input
- Reviewing funding leveraging opportunities and strategies
- Course setting for Year 4 activities to realize project goals
- Engage and involve students

6:45 - 8:00 **Breakfast**, Ripples Lounge

6:45 - 8:00 **SAP Breakfast with Objective Team Leaders.** location TBD

8:00 - 8:10 **Housekeeping** Dianne Daley Laursen

8:10 - 8:45 **Processing Stakeholder Input** Discussion and Review

8:45 - 9:30 **Leveraging our Funding during Year 4** Sarah Koerber

Year 4, Priorities and Action Steps

9:30 - 10:00 **Goal 1 Adaptation** Bill Pan, facilitator

10:00 - 10:15 **Break**

10:15 - 10:45 **Goal 2 Mitigation** Dave Huggins, facilitator

10:45 - 11:15 **Goal 3 Participation** Chad Kruger, facilitator

11:15 - 11:45 **Goal 4 Education** Kat Wolf, facilitator

11:45 - 12:15 **Synopsis and Send-off** Sanford Eigenbrode

12:15 **Adjourn** Bagged lunches provided