



## Planning for Climate Resiliency January 20, 2017

2:30 pm (eastern), 1:30 pm (central), 12:30 pm (mountain), 11:30 am (pacific)

Resiliency to weather risk is, on one hand, a topic that farmers and ranchers are already familiar with, but now climate change is adding new uncertainties that make it difficult to know the best practices for the future. Scenario planning is a method of risk assessment that allows Extension and agricultural system stakeholders to come together using the latest climate science to discover robust management options, highlight key uncertainties, prioritize Extension programming needs, and provide an open forum for discussion for this sometimes controversial topic. These risks can then be incorporated into a farm's decision making process using the newly developed Adaptation Planning Guide. This webinar will cover the basics of the scenario planning process, highlight the results of using scenario planning with the Northern Plains Beef industry, and discuss the use of the Adaptation Planning Guide. *An application for continuing education credit for Certified Crop Advisors (CCAs) and members of the American Registry of Professional Animal Scientists (ARPAS) will be submitted.*

**Jenny Pronto** is the Chief Executive Officer at Bioprocess Analytics, a consulting firm in NY. Current efforts focus on development of a scenario planning exercise in addition to other extension materials relevant to climate change and dairy farming in New York State. In the past, she has worked on anaerobic digester-related projects including: digester performance monitoring, greenhouse gas emission reductions and carbon credits, and a regional AD feasibility study. She has written and co-written several documents for technology transfer, outreach and education, including several training manuals and an anaerobic digester training program curriculum. Jenny received B.S. degrees in Environmental Engineering and Science of Natural and Environmental Systems (focus: Sustainable Development) from Cornell University in 2007. She formerly worked as a Research Assistant in the Department of Biological and Environmental Engineering at Cornell. Email: [jenny.pronto@gmail.com](mailto:jenny.pronto@gmail.com)



**Crystal Powers** is an Extension Engineer in Biological Systems Engineering at the University of Nebraska –Lincoln. Her research and extension involve the impact of livestock on agroecosystems. She is currently the lead on the Scenario Planning for Resilient Beef project as well as Project Coordinator for the Animal Agriculture in a Changing Climate national Extension project where her focus has been on using science-based communication strategies. She has previously been involved in the development and application of various air and water quality materials. She received her B.S. from University of Nebraska – Lincoln in Biological Systems Engineering and M.S. from Cornell University in Agricultural and Biological Engineering. Phone: (402) 472-0888; Email: [cpowers2@unl.edu](mailto:cpowers2@unl.edu)

**David Schmidt** is an engineer with responsibilities in teaching and research in the Department of Bioproducts and Biosystems Engineering at the University of Minnesota. David currently serves as the Midwest regional coordinator for a national USDA funded project on education regarding animal agriculture and climate change. David has had a diverse career in education and research with a connection to developing and promoting affordable manure handling technologies. His air quality research includes quantifying emissions from both building and area sources and dispersion modeling. He has been instrumental in the development of OFFSET and MinnFARM, screening tools to objectively evaluate air and water quality impacts on the environment. He has also coordinated research projects in milkhouse wastewater treatment and anaerobic digestion. Phone: (612) 625-4262; Email: [schmi071@umn.edu](mailto:schmi071@umn.edu)



### How Do I Participate?

On the day of the webcast, go to [www.extension.org/58813](http://www.extension.org/58813) to download the speaker's power point presentations and connect to the virtual meeting room. First time viewers should also follow the steps at: [www.extension.org/8924](http://www.extension.org/8924).

### For More Information

- \* Animal Agriculture in a Changing Climate <http://animalagclimatechange.org/>
- \* Adaptation Planning Guide: <http://animalagclimatechange.org/wp-content/uploads/2016-Planning-Guide-FINAL-web.pdf>