Monday, December 7

8:00   Arrival, Sign-In, Coffee

8:30   Welcome and Introduction to Workshop and Goals
       Alan Rudolph, Colorado State University
       Bruce Hamilton, National Science Foundation
       Valerie Reed, Department of Energy
       Sonny Ramaswamy, Department of Agriculture
       Ken Reardon, Colorado State University

9:20   Session 1: Focus on FEW Issues in Biofuel Production
       Session Chair: Reagan Waskom, Colorado State University

       Current and future issues for biofuel production
       Ken Reardon, Colorado State University

       Confronting uncertainties in the biofuel - water landscape: assessment and attributes
       May Wu, Argonne National Laboratory

       Water productivity for hybrid maize under irrigated agriculture
       Chittaranjan Ray, University of Nebraska at Lincoln

       Agriculture advancements and cellulosic ethanol
       Steve Barr, Dupont Pioneer

       The good, the bad and the ugly – assessing sustainability of biofuel feedstocks
       Keith Paustian, Colorado State University

       Social dimensions of bioenergy production: challenges and opportunities
       Theresa Selfa, SUNY-Environmental Science and Forestry

12:30  Group lunch

1:00   Session 2: Focus on Synergistic FEW Opportunities during Oil and Gas Production
       Session Chair: Bryan Willson, Colorado State University

       Current state and future vision for interactions between food, oil and gas production and water systems
       Ken Carlson, Colorado State University

       What are the primary barriers for reusing produced water for agriculture from industry’s perspective?
       Erik Anglund, Anadarko Petroleum Corporation
Current state of oilfield wastewater reuse
John Veil, Veil Environmental, LLC

Technologies and methods for treatment of wastewater from O&G exploration and production: limitations, economics, and reuse opportunities
Tzahi Cath, Colorado School of Mines

Growing cotton with treated produced water - lessons learned
Katie Lewis, Texas A&M University

3:35 Break

4:00 Session 3: Overarching Issues
Session Chair: Sonia Kreidenweis, Colorado State University

Management of collaboration and conflict
Tanya Heikkila, University of Colorado-Denver

Understanding perceptions of water resources in the Agricultural Heartland: Who is shaping our attitudes and influencing our behaviors?
Kajsa E. Dalrymple, University of Iowa

Observing and modeling water cycle changes related to biofuel and oil/gas production
Christa Peters-Lidard, NASA

5:35 Day 1 Wrap up

Tuesday, December 8

8:00 Welcome
JoAnn Lighty, National Science Foundation

8:10 Day 1 Summary

8:30 Session 4: Broad Themes for FEW Issues in Energy Production
Session Chair: Reagan Waskom, Colorado State University

Report from COP21 on nexus issues in energy production
Peter Backlund, Colorado State University

Climate and the energy-water nexus: current and future risks
Kristen Averyt, Cooperative Institute for Research in Environmental Sciences, University of Colorado

Technology, innovation and disruptive R&D for the energy-water nexus
Seth Snyder, Argonne National Laboratory and Ron Faibish, Department of Energy

10:05 Break

10:20 Breakout group discussions to identify knowledge gaps and research needs regarding FEW nexus issues

12:00 Group working lunch

2:00 Workshop summary and next steps