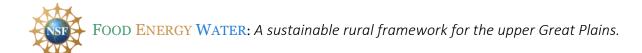
WORKSHOP AGENDA

<u>Sunday, October 18th</u> 6:00pm – 9:00pm	Vertex Sky Bar, Hotel Alex Johnson Early-bird reception at Vertex Sky Bar (located on the top floor of the Alex Johnson Hotel, downtown at 523 Sixth Street) sponsored by RESPEC Engineering Cash-bar, hors d'oeuvres provided
Monday, October 19 th 7:00am - 8:00am 8:00am - 8:10am 8:10am - 8:20am 8:20am - 8:30am 8:30am - 9:00am 9:00am - 9:20am	Surbeck Center Ballroom, SDSM&T Registration and networking breakfast "Welcome." Jan Puszynski, Vice President of Research, SD Mines "Workshop organization." Jim Stone, Associate Professor, Civil and Environmental Engineering, SD Mines "NSF food-energy-water nexus white paper goals." Thomas Torgersen, Program Director, Division of Earth Sciences, National Science Foundation "Synergies in FEW in the Northern Great Plains: a North Dakota Perspective." Chris Zygarlicke, Associate Vice President for Strategic Projects and University Relations, University of North Dakota, Energy and Environmental Research Center "University Introductions." University representatives: Jim Stone, SD Mines; Eakalak Khan, NDSU; David Clay, SDSU; Chris Zygarlicke, UND; Ranjit Koodali, USD; Mafany Mongoh, Sitting Bull College; Mahesh Pattabiraman, University of Nebraska-Kearney
9:20am – 9:50am	Break
Energy Session 9:50am - 10:20am	 moderated by Robb Winter, Head and Professor, SD Mines "The Successful Development of Shale Energy Resources in the United States." Daniel Soeder, Research Scientist, National Energy Technology Laboratory, Department of Energy
10:20am – 10:40am	"The Role of Sustainable Oilseeds in Renewable Energy Policy." Michael Lindenbaum, Vice President of Technology, Agrisoma Biosciences Inc.
10:40am – 11:00am	"Biomass Collection: A Challenge for Cellulosic Ethanol Production." Jose Leboreiro Hernandez, Research Division, Archer Daniels Midland
11:00am – 11:30am 11:30am – 12:20pm	Energy panel discussions with Daniel Soeder, NETL, DOE; Michael Lindenbaum, Agrisoma Biosciences Inc.; Hank Kohlbrand, HL Consulting; Chris Zygarlicke, UND, EERC; Jose Leboreiro Hernandez, ADM; and Yuliana Porras-Mendoza, BOR. Buffet lunch – with keynote address "The Evolution of the Energy-Water Nexus." Henry Kohlbrand, retired Global R&D Director, Process & Manufacturing
	Technology R&D for Dow Chemical Company and President of the American Institute of Chemical Engineers (AIChE)
Water Session 12:20pm- 12:50pm 12:50pm- 1:10pm 1:10pm - 1:30pm	- moderated by Eakalak Khan, Professor, NDSU "Regional Water Resource Challenges." Col. John Henderson, Commander, Omaha District, United State Army Corps of Engineers "Water: Findings from the 3 rd National Climate Assessment." T.M. 'Bull' Bennett, President and CEO of Kiksapa Consulting "Implications of Regional Land Use Change on Water Resources." Thomas Loveland, Chief Scientist, USGS EROS Center and Gregory 'Greg' Delzer, Supervisory Hydrologist, USGS South Dakota Water Science Center





Water Session cont'd - moderated by Eakalak Khan, Professor, NDSU

1:30pm – 2:00pm Water panel discussions with Yuliana Porras-Mendoza, Director of Advanced

Water Treatment, Bureau of Reclamation; Nirmala Khandan, Chair and Professor, New Mexico State University; Jay Gilbertson, Director, East River Water District; Col. John Henderson, US ACE; Thomas Loveland, USGS EROS; Bull

Bennett, Kiksapa Consulting; and Greg Delzer, USGS-SDWSC.

2:00pm – 2:20pm Break

White Paper Breakout Groups - moderated by Jim Stone, Associate Professor, SD Mines

2:20pm - 3:00pm White paper breakout groups 3:00pm - 3:30pm Breakout group reporting

3:30pm - 5:00pm Poster session and networking, hors d'oeuvres provided

<u>Tuesday, October 20th Surbeck Center Ballroom, SDSM&T</u>

7:00am — 8:00am Networking breakfast

8:00am - 8:10am "Today's goal: identifying fundamental problems." Jim Stone, Associate

Professor, Civil and Environmental Engineering, SD Mines

Food Session – moderated by David Clay, Professor, SDSU

8:10am — 8:40am "Food Security and Sustainable Resource Management." Dennis McLaughlin,

H.M. King Bhumibol Professor, Civil and Environmental Engineering, MIT

8:40am – 9:00am "Land Use Change and Biofuel Life Cycle Analysis." Zhangcai Qin, Postdoctoral

Appointee, Argonne National Laboratory

9:00am – 9:20am "High-Value Bioproducts." Dean Webster, Professor and Chair, Coatings and

Polymeric Materials, North Dakota State University

9:20am – 9:40am "Green Chemistry." Mukund Sibi, University Distinguished and James A. Meir

Professor, Chemistry and Biochemistry, North Dakota State University

9:40am - 10:00am Break

10:00am – 10:30am Food panel discussions with *Dennis McLaughin, MIT; Dean Webster, NDSU;*

Mukund Sibi, NDSU; David Clay, Professor, Plant Science, SDSU; Kevin Kephart,

SDSU; and Barry Dunn, SDSU.

Nexus Session – moderated by Sivaguru Jayaraman, Professor, NDSU

10:30am – 11:00am "Agriculture and its Externalities: Irony and Paradox." Barry Dunn, Dean, College

of Agriculture and Biological Sciences, South Dakota State University

11:00am – 11:30am "Food Energy Water Nexus: Approaches and Tools." Virginia Dale, ORNL

Corporate Fellow, Environmental Sciences Division, Oak Ridge National Laboratory

11:30am – 12:00pm Nexus panel discussion with *Barry Dunn, SDSU; Virginia Dale, ORNL; Dennis*

McLaughlin, MIT; Chris Zygarlicke, UND-EERC; Dan Soeder, NETL-DOE; and Hank

Kohlbrand, HL Consulting.

White Paper Breakout Groups – moderated by Jim Stone, Associate Professor, SD Mines

12:00pm – 1:20pm Breakout groups and working lunch

1:20pm - 1:40pm Breakout group reporting

1:40pm – 2:20pm Bringing-it-all-together discussion

2:20pm – 2:40pm Break

2:40pm - 3:30pm Continued discussions and networking

Workshop Sponsors:

