

# 2023 NCSS National Conference Program Schedule

## Saturday, July 8, 2023

1:00 to 7:00 p.m.	<b>Registration</b> – Hampton Inn & Suites Bismarck Northwest <b>DINNER</b> (on your own)
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## Sunday, July 9, 2023






6:45 a.m.	Assemble and load buses in the north parking lot of the Bismarck State College National Energy Center of Excellence ( <b>NECE</b> )  <b>Buses will leave promptly at 7:00 a.m.</b>
7:00 a.m. to 6:00 p.m.	<a href="#">FIELD TOUR (lunch included)</a>  Sedimentary Plains Tour: Belfield and Medora, North Dakota  Explore and enjoy the history, geology, and soils of Western North Dakota including sodium-affected soil pits near Belfield.  Then we'll continue west for lunch at Medora, and into the heart of the North Dakota Badlands and Theodore Roosevelt National Park as <i>Dr. Bernhardt Saini-Eidukat</i> , North Dakota State University presents on this <b>Truly Legendary Landscape!</b>
12:00 to 6:30 p.m.	<b>Registration</b> – Hampton Inn & Suites Bismarck Northwest  <b>DINNER</b> (on your own)

## Monday, July 10, 2023

To see video clips, click on the video icons (right column) or watch the [complete playlist](#).

7:00 a.m.	<b>Registration</b> – 4th Floor, Bismarck State College NECE (coffee/continental breakfast included)  <i>Registration will remain open until 5:00 p.m.</i>	
8:00 a.m.	<b>PLENARY SESSION</b> – Bavendick State Room  Moderator: <i>Wade Bott</i> , USDA NRCS, North Dakota  <b>Welcome Remarks</b>  <i>Dr. Doug Jensen</i> , President, Bismarck State College	▶
8:10 a.m.	<i>Dan Hovland</i> , State Conservationist, USDA NRCS, North Dakota	
8:20 a.m.	<a href="#">Welcome to North Dakota — a state of remarkable soils and a unique soil survey legacy!</a>  <i>Dr. David Hopkins</i> , North Dakota State University	▶
8:40 a.m.	<a href="#">Remarks from Soil Science Society of America</a>  <i>Dr. Carrie Laboski</i> , President, Soil Science Society of America	▶







## Monday, July 10, 2023 (continued)

<b>9:00 a.m.</b>	<b>Remarks from USDA NRCS Leadership</b> <i>Dr. Luis Tupas, Deputy Chief, SSRA, USDA NRCS, Washington D.C.</i>	
<b>9:15 a.m.</b>	<a href="#"><u>Remarks from Soil and Plant Science Division Leadership</u></a> <i>Dr. David Lindbo, Director, SPSD, USDA NRCS, Washington D.C.</i>	
<b>9:30 a.m.</b>	<b>BREAK</b>	
<b>10:00 a.m.</b>	<a href="#"><u>Farming, Hunting, and Mining among North Dakota's First People</u></a> <i>Dr. Andrew Clark, State Historical Society of North Dakota</i>	
<b>10:15 a.m.</b>	<b>Traditional Gardening Practices of the Mandan, Hidatsa, and Arikara People: Historic and Contemporary Glimpses in Time</b> <i>Dr. Ruth Plenty Sweetgrass-She Kills, Nueta Hidatsa Sahnish College</i>	
<b>11:00 a.m.</b>	<a href="#"><u>National Cooperative Soil Survey Activities at the Northern Great Plains Field Station, 1949-1956</u></a> <i>Dr. Mark Liebig, USDA ARS, Mandan, North Dakota</i>	
<b>11:15 a.m.</b>	<b>COMMITTEE BREAKOUT SESSIONS – Bismarck State College NECE</b> <b>Committee Meetings (4 concurrent)</b> <ul style="list-style-type: none"> <li>• Bylaws – Meeting Room 436/443</li> <li>• Interpretations – Meeting Room 431/433</li> <li>• Taxonomy – Bavendick State Room</li> <li>• Technology – Basin Auditorium 304</li> </ul>	
<b>12:00 p.m.</b>	<b>LUNCH (provided)</b>	
<b>1:00 p.m.</b>	<b>Committee Meetings (4 concurrent)</b> <ul style="list-style-type: none"> <li>• Hydric/SAS – Meeting Room 436/443</li> <li>• Research – Bavendick State Room</li> <li>• Soil and Ecosystem Dynamics – Basin Auditorium 304</li> <li>• Standards – Meeting Room 431/433</li> </ul>	
<b>1:45 p.m.</b>	<b>BREAK</b>	
<b>2:00 p.m.</b>	<b>Committee Meetings (4 concurrent)</b> <ul style="list-style-type: none"> <li>• Bylaws – Meeting Room 436/443</li> <li>• Interpretations – Meeting Room 431/433</li> <li>• Taxonomy – Bavendick State Room</li> <li>• Technology – Basin Auditorium 304</li> </ul>	
<b>2:45 p.m.</b>	<b>BREAK</b>	













## Monday, July 10, 2023 (continued)

3:00 p.m.	<b>Committee Meetings</b> (4 concurrent) <ul style="list-style-type: none"> <li>• Hydric/SAS – Meeting Room 436/443</li> <li>• Research – Bavendick State Room</li> <li>• Soil and Ecosystem Dynamics – Basin Auditorium 304</li> <li>• Standards – Meeting Room 431/433</li> </ul>	
3:45 p.m.	<b>BREAK</b>	
4:00 p.m.	Cooperator/Partner Business Meetings – Bavendick State Room, Meeting Room 431/433, or Meeting Room 436/443  State Soil Scientist Business Meeting – Basin Auditorium 304	
5:00 p.m.	<b>DINNER</b> (on your own)	

## Tuesday, July 11, 2023

7:00 a.m.	Morning Networking Session – 4th Floor, Bismarck State College NECE (coffee/continental breakfast included)	
8:00 a.m.	<b>PLENARY SESSION</b> – Bavendick State Room Moderator: <i>Dr. David Hopkins</i> , North Dakota State University <a href="#"><u>Transformation of Agriculture in North Dakota for Ill and for Good</u></a> <i>Dr. David Franzen</i> , North Dakota State University	
8:30 a.m.	<a href="#"><u>Measuring Soil Carbon: Unique Considerations for Climate Mitigation (VIRTUAL)</u></a> <i>Dr. Jonathan Sanderman</i> , Woodwell Climate Research Center	
8:50 a.m.	<a href="#"><u>Overview of the USDA Climate Hubs and Soil-Related Tools and Resources</u></a> <i>Dr. Dannele Peck</i> , USDA ARS, Fort Collins, Colorado	
9:10 a.m.	<a href="#"><u>Climate Regulation Services from Northern Plains Agroecosystems</u></a> <i>Dr. Mark Liebig</i> , USDA ARS, Mandan, North Dakota	
9:30 a.m.	<b>BREAK</b>	
10:00 a.m.	<a href="#"><u>The National Coordinated Soil Moisture Monitoring Network: What it is, and why soils characterization is an integral component of our success (VIRTUAL)</u></a> <i>Marina Skumanich</i> , NOAA-NIDIS, Boulder, Colorado	
10:20 a.m.	<a href="#"><u>DSP4SH: Using Cooperative Research to Define Dynamic Soil Property and Soil Health Reference Conditions for Soil Survey</u></a> <i>Dr. Skye Wills</i> , SPSD-NSSC, USDA NRCS, Nebraska	

**Tuesday, July 11, 2023 (continued)**

<b>10:40 a.m.</b>	<p><a href="#"><u>Trends in Soil Properties Across the Minneapolis-St. Paul Metropolitan Area - Implications for Ecosystem Services (VIRTUAL)</u></a></p> <p><i>Dr. Nic Jelinski, University of Minnesota, Twin Cities</i></p>	
<b>11:00 a.m.</b>	<p><a href="#"><u>The Changing Demands on Soil Survey – What the Future May Hold</u></a></p> <p><i>Dr. David Lobb, University of Manitoba, Winnipeg, Manitoba, Canada</i></p>	
<b>11:20 a.m.</b>	<p><a href="#"><u>Species Composition Trends and Impacts on Native Ecological Sites States</u></a></p> <p><i>Dr. Kevin Sedivec, North Dakota State University</i></p>	
<b>11:40 a.m.</b>	<p><a href="#"><u>Building Rangeland Resilience to Adapt to Climate Change</u></a></p> <p><i>Dr. David Toledo, USDA-ARS, Mandan, North Dakota</i></p>	
<b>12:00 p.m.</b>	<p><b>LUNCH</b> (provided) with <a href="#"><u>The Geology of North Dakota</u></a> (Video is in two parts because of technical difficulties)</p> <p><i>Ed Murphy, North Dakota Geological Survey</i></p>	 
<b>1:00 p.m.</b>	<p><b>ORAL POSTER PRESENTATIONS</b> – Bavendick State Room</p> <p><a href="#"><u>Sensor-informed soil water, nitrate, and greenhouse gas monitoring and management for climate-smart agriculture</u></a></p> <p><i>Dr. Jingyi Huang, University of Wisconsin, Madison</i></p>	
<b>1:15 p.m.</b>	<p><a href="#"><u>Impacts of wildfire on the ecologic, hydrologic, and geomorphic resiliency of forest soils in the Southwestern U.S.</u></a></p> <p><i>Dr. Craig Rasmussen, University of Arizona</i></p>	
<b>1:30 p.m.</b>	<p><a href="#"><u>State-and-transition models in a time of change: toolsets for integrated carbon management</u></a></p> <p><i>Dr. James Thompson, West Virginia University</i></p>	
<b>1:45 p.m.</b>	<p><a href="#"><u>Legacy data rescue for retrospective soil survey and change detection in topsoil organic carbon stocks of the Corn belt, USA</u></a></p> <p><i>Dr. Meyer Bohn, University of Iowa</i></p>	
<b>2:00 p.m.</b>	<p><a href="#"><u>Visualizing Soil Landscapes by Mining Soil Survey Taxonomic Data</u></a></p> <p><i>Dr. Darrell Schulze, Purdue University</i></p>	
<b>2:15 p.m.</b>	<p><a href="#"><u>Soil landscapes of the United States (SOLUS): A 21st century raster soil survey inventory</u></a></p> <p><i>Suzann Kienast-Brown, SPSD-NSSC, USDA NRCS, Montana</i></p>	
<b>2:30 p.m.</b>	<p><b>BREAK</b> – Move to North Dakota’ Gateway to Science at 1600 Canary Avenue, Bismarck, North Dakota</p>	


## Tuesday, July 11, 2023 (continued)

<b>3:00 p.m.</b>	<b>Poster Session with “Stump Talks”</b> – North Dakota’s Gateway to Science gallery viewing	
<b>5:00 p.m.</b>	Poster Social and North Dakota’s Gateway to Science Gallery Viewing (Heavy hors d’oeuvres and cash bar)	
<b>7:00 p.m.</b>	<b>DINNER</b> (on your own)	














## Wednesday, July 12, 2023

<b>6:45 a.m.</b>	Assemble and load buses in the north parking lot of the Bismarck State College NECE  <b>Buses will leave promptly at 7:00 a.m.</b>	
<b>7:00 a.m. to 9:00 p.m.</b>	<b><u><a href="#">FIELD TOUR (lunch &amp; dinner included)</a></u></b>  Missouri Corridor Tour: Underwood, Mandan, & McKenzie, North Dakota  An event filled day! Discuss soil pits on reclaimed coal mine land and restored wetlands; then compare them to the unmined soils and landscape. Experience the Garrison Dam and Lake Sakakawea, learn the history of the development, energy contributions, and flood control use of the 3rd largest reservoir in the Unites States.  Tour the USDA ARS Northern Great Plains Research Laboratory in Mandan where you will learn of the history, research, and collaborations of the 111-year-old station.  End the day with dinner during the NCSS Awards Banquet hosted by the Black Leg Ranch, owned and operated by the Doan Family since 1882. This ranch, heavily involved in conservation and regenerative agriculture has won numerous state and national Environmental Stewardship Awards including the Inaugural Aldo Leopold Conservation Award for the state of North Dakota.	




## Thursday, July 13, 2023

<b>7:00 a.m.</b>	Morning Networking Session – 4th Floor, Bismarck State College NECE (coffee/continental breakfast included)	
<b>8:00 a.m.</b>	<b>PLENARY SESSION</b> – Bavendick State Room  Moderator: <i>Lance Duey</i> , USDA NRCS, North Dakota  <b><u><a href="#">Walking Back – Looking Forward</a></u></b>  <i>Jay Fuhrer</i> , Burleigh County SCD Menoken Soil Health Farm	
<b>8:30 a.m.</b>	<b>UPDATES FROM FEDERAL PARTNERS</b>  <b><u><a href="#">Updates from USDA Agricultural Research Service (VIRTUAL)</a></u></b>  <i>Sarah Beebout</i> , USDA ARS, Maryland	

**Thursday, July 13, 2023 (continued)**

8:45 a.m.	<a href="#"><u>What's the BLM been up to? (VIRTUAL)</u></a> <i>Ron McCormick, USDI BLM, Washington D.C.</i>	
9:00 a.m.	<a href="#"><u>Updates from USDA Forest Service (VIRTUAL)</u></a> <i>Robert Colter, USDA FS, Washington, D.C.</i>	
9:15 a.m.	<a href="#"><u>With a lot of help from our friends: Soils data, information, and partnerships in the National Park Service Washington Office</u></a> <i>Jason Kenworthy, USDI NPS, Colorado</i>	
9:30 a.m.	<a href="#"><u>The Dynamic Role of Depressional Wetlands in Agroecosystems in North Dakota and Beyond</u></a> <i>Owen McKenna, USDA GS, North Dakota</i>	
9:45 a.m.	<b>BREAK</b>	
10:00 a.m.	<a href="#"><u>Bylaws</u></a> CHAIR: <i>Jenn Mason, SPSD, USDA NRCS, Tennessee</i>	
10:15 a.m.	<a href="#"><u>Interpretations</u></a> CHAIR: <i>Bob Dobos, SPSD-NSSC, USDA NRCS, Nebraska</i>	
10:30 a.m.	<a href="#"><u>Taxonomy</u></a> CHAIR: <i>Andrew Brown, SPSD, USDA NRCS, California</i>	
10:45 a.m.	<a href="#"><u>Technology</u></a> CHAIR: <i>Aaron Friend, USDA NRCS, Tennessee</i>	
11:00 a.m.	<a href="#"><u>Subaqueous Soils Ad Hoc</u></a> CHAIR: <i>Greg Taylor, SPSD, USDA NRCS, North Carolina</i>	
11:15 a.m.	<a href="#"><u>Research Priorities</u></a> CHAIR: <i>Dr. Skye Wills, SPSD-NSSC, USDA NRCS, Nebraska</i>	
11:30 a.m.	<a href="#"><u>Soil and Ecosystem Dynamics</u></a> CHAIR: <i>Curtis Talbot, SPSD, USDA NRCS, New Mexico</i>	
11:45 a.m.	<a href="#"><u>Standards</u></a> CHAIR: <i>Deb Surabian, SPSD, USDA NRCS, Connecticut</i>	
12:00 p.m.	<a href="#"><u>Hydric Ad Hoc</u></a> CHAIR: <i>Lenore Vasilas, SPSD, USDA NRCS, Maryland</i>	
12:15 p.m.	<b>LUNCH</b> (provided)	

### Thursday, July 13, 2023 (continued)

<b>1:15 p.m.</b>	<p><b>TOWN HALL DISCUSSION</b></p> <p>Moderator: <i>Dr. Meyer Bohn</i>, Iowa State University</p> <p><a href="#"><u>Recruitment and Retention</u></a></p>	
<b>2:15 p.m.</b>	<p><a href="#"><u>NCSS Business Meeting and NCSS Next Host</u></a></p> <p><i>Dr. David Lindbo</i>, Director, SPSD, USDA NRCS, Washington D.C.</p>	
<b>2:45 p.m.</b>	<p><b>Closing Remarks</b></p>	

### Friday, July 14, 2023

<b>7:30 a.m.</b>	<p>Travel to Menoken, North Dakota</p>
<b>8:00 to 10:30 a.m.</b>	<p><b>Burleigh County SCD, Menoken Soil Health Farm Tour</b></p> <p>Witness soil health cropping systems, cover crops, composting system, high tunnel, vermiculture, and the no-till garden.</p>