

South Dakota Engineering Society 59th Annual Conference

Ramkota Hotel and Conference Center – Pierre, SD

April 24 – April 26, 2019

Wednesday, April 24, 2019

1:00p - 3:00p Registration - Lake Oahe Lobby
3:00p - 5:00p **SDES BOARD MEETING** – Lake Sharpe
5:00p - 6:00p Registration - Lake Oahe Lobby
5:30p - 10:00p **HOSPITALITY ROOM – Courtyard Area**
Sponsor: Dakota Concrete Pipe Association

Thursday, April 25, 2019

7:00a – 5:00p Registration – Lake Oahe Lobby

General Session #1 – Galleries B & C – 1.0 PDH

8:00a – 8:10a Welcome – Mayor Steve Harding

- 8:10a – 8:35a Tom Roberts, PE, NSPE Past President
“Ethics in Engineering – Part 1”
- 8:40a – 9:05a Steve Johnson, PE, SD Department of Transportation
“Keystone Wye Rehabilitation”

General Session #2 – 1.0 PDH – Concurrent Session A - Amphitheater I Concurrent Session B - Amphitheater II

9:10a – 10:00a

- A** Dan Graber, PE, HDR Engineering
“Sioux Falls Outfall Interceptor Sewer Replacement”
- B** Mark Radke & David Le, United States Patent & Trademark Office
“The Role of Engineers as Patent Examiners”

10:00a – 10:25a **BREAK & Vendor Exhibits – Lake Oahe Lobby**

General Session #3 – 1.5 PDH – Concurrent Session A - Amphitheater I Concurrent Session B - Amphitheater II

10:30a – 11:20a

- A** Mike Johnson, PE, HDR Engineering
“Sioux Falls Parallel Force Main Project”
- B** Tim Cowman, SD Department of Environment & Natural Resources
“The Big Sioux River Flood Information System”

11:25a – 12:15p

- A** Dr. Delvin DeBoer, PhD, PE, AE2S
“Pierre Water Treatment Plant”
- B** Leap Chear, AIA, & Shawn Crowley, AIA,
EAPC Architect Engineers
“SDSU Raven Precision Agriculture Center”

12:15p – 1:55p **LUNCH & Awards – Gallery A**

Keynote Address – U.S. Senator Mike Rounds
State of NSPE – Tom Roberts, PE, NSPE Past President
New Officer Installation – Tom Roberts, PE, NSPE Past President
Awards – Brad Ludens, PE, State Awards Chair

Tour #1 – 1.5 PDH

- 1:55p - 4:00p US Army Corps of Engineers
“Oahe Dam Tour”
Buses load in front of Ramkota promptly following lunch.

General Session #4 – 1.0 PDH – Concurrent Session A - Amphitheater I Concurrent Session B - Amphitheater II

2:00p – 2:50p

- A** Cindie McCutcheon, RESPEC
“Big Sioux River TMDL Updates”
- B** Rod Senn, PE, KLJ
“Pierre Regional Airport: FAA Airport Improvement Program and Recent Projects”

General Session #5 – Amphitheater II - 1.0 PDH

- 2:55p – 3:45p Derek McTighe, PE/LS, Brosz Engineering, Inc.
“LIDAR Data in Civil Engineering”

4:00 pm – 4:25pm **BREAK & Vendor Exhibits – Lake Oahe Lobby**

General Session #6 – .5 PDH – Concurrent Session A - Amphitheater I Concurrent Session B - Amphitheater II

4:30p – 4:55p

- A** Tom Roberts, PE, NSPE Past President
“Ethics in Engineering – Part 2”
- B** Andy Vandel, SD Department of Transportation
“High Friction Surface Treatment on Horizontal Curves in the Black Hills”

5:00p – 5:25p **SDES MEMBERSHIP MEETING - Amphitheater II**

6:00p – 8:15p **SOCIAL HOUR AND MISSOURI RIVER CRUISE ABOARD THE SUNSET**

Sponsors: Cemcast Pipe & Precast, Hayward Baker & RESPEC

Boarding begins at 6pm between the car & railroad bridges. Cruise embarks at 6:15p and docks at 8:15p. Light appetizers included with the cruise. Cash bar available.

Friday, April 26, 2019

7:00a – 7:55a **BREAKFAST – Gallery A**

General Session #7 – Galleries B & C – 1.5 PDH

- 8:00a – 8:25a Ryan Koontz, PhD, South Dakota School of Mines and Technology
“3D Printing Technology”

- 8:30a – 9:25a Todd J. Mergen, PE, HDR Engineering/South Dakota Air National Guard
“Engineering in a Deployed Environment”

General Session #8 – .5 PDH – Concurrent Session A - Galleries B & C Concurrent Session B - Amphitheater II

9:30a – 9:55a

- A** Kimberly Osberg & Students Fernando Vazques & Hannah Moen, South Dakota School of Mines and Technology, Center of Excellence for Advanced Manufacturing & Production (CAMP)
“Where STEM and Social Sciences Integrate”
- B** Nathan Nielson, PLS, Banner Associates
“Drones in Engineering”

10:00a – 10:25a **BREAK & Vendor Exhibits – Lake Oahe Lobby**

General Session #9 - Amphitheater II – 2.0 PDH

- 10:30a – 10:55a Brad Palmer, City of Pierre
“Update on the Pierre Solar Project”
- 11:00a – 11:25a D. Jonathan Huft, SRAM LLC/Quarq
“Connected Bicycles”
- 11:30a – 12:25p Dave Huft, SD Department of Transportation
“Impacts of Electric, Connected & Automated Vehicles”
- 12:30p – ??? **PAST PRESIDENTS’ LUNCHEON - Courtyard**
All Past Presidents are Invited to Attend

A maximum of 10 PDHs are available through this conference, with 9.5 PDHs maximum available to those attending the Oahe Dam Tour.