



# Engineering and Staking Conference

March 4-5, 2020  
 Ramkota Hotel  
 Theater 1  
 Pierre, S.D.

## Logistical Information

### Room Reservations:

Contact the Ramkota Hotel at 605-224-6877 or Clubhouse Hotel & Suites at 605-494-2582 and ask for the SDREA Engineering room block. Room rate at the Ramkota is \$88 plus tax. Room rate at the Clubhouse is \$117 plus tax for a Queen. Cut-off date is Feb. 15.

The meeting will begin at 8 a.m., with registration at 7:30 a.m., and conclude by noon.

### Meeting Registration:

Register online at [sdrea.coop](http://sdrea.coop), click on News and Events and Event Registration by Feb. 27.

### Need More Information?

Contact Mary Neuhauser at 605-224-8823 or [mary.neuhauser@sdrea.coop](mailto:mary.neuhauser@sdrea.coop)

This course is part of the SDREA Education Package B. If you did not purchase Package B, then the fee is \$650 plus tax per participant.

## Wednesday, March 4, 2020

- 7:30 a.m. Registration**
- 8 a.m. Line Fault Indicators** – Jag Bakthavatchalam, Schweitzer Engineering Laboratories
  - Overview of SEL Fault Indicators: General overview covering all the types of FCIs SEL has to offer. Wireless Fault Indicators and Sensors: Latest wireless sensors like FLT/FLR, FT50/FR12 and how they help speed protection with quick fault finding.
- 10 a.m. Break**
- 10:15 a.m. Laminate Poles** – Brian Hitz, Laminated Wood Systems
  - Covering the manufacturing process, design, specifications and installation of laminated wood poles.
- 11 a.m. Underground Cable** – Okonite Company
  - Manufacturing of, proper sizing and installation of underground cable.
- Noon Lunch on your own**
- 1 p.m. Grounding** – Jeremy Kalt, Dalager Engineering
  - Grounding procedures for overhead and underground lines reflecting changes in the latest NESC code release (2017) as well as the RUS spec book for underground electric distribution (2018).
- 2 p.m. Line Gallop Mitigation** – AFL/Alcoa
  - AFL/Alcoa, industry leader in studying and controlling overhead conductor vibration through laboratory and field testing, had vibration recorders on over 200 miles of line in central South Dakota for most of last winter. They also offer Vibration Control software at no charge to electric utilities and engineers. We will discuss aeolian vibration and galloping.
- 3 p.m. Break**
- 3:15 p.m. Transformer Loading** – Solomon
  - Transformer loading and size selection for overhead and underground transformers. Field services and field engineering services that can be offered.

## Thursday, March 5, 2020

- 8 a.m. Reactors** – Cory Stoffers, Border States
  - The theory and operation of pad-mount shunt reactors including basic deployment, maintenance and cost benefits.
- 9 a.m. Bell Poles** – Bell Lumber & Pole Company
  - Presentation on the different species of trees used to make poles, the way they are treated and possible changes to treatment products used.
- 10 a.m. Break**
- 10:15 a.m. Round Table Discussion**
- 11:30 a.m. Evaluations and Closing Comments**