

2017 N.D. REC Engineering and Operations Conference & Exhibitor Showcase

March 2 and 3, 2017 | Sleep Inn & Suites | 2400 10th Street SW | Minot, N.D.

Co-sponsored by: The North Dakota REC Engineering and Operations Association and The North Dakota Association of Rural Electric Cooperatives (NDAREC)

PLAN TO ATTEND THE ANNUAL CONFERENCE AND EXHIBITOR SHOWCASE!

You and your colleagues are invited to attend the annual conference, sponsored by the North Dakota REC Engineering and Operations Association and the North Dakota Association of Rural Electric Cooperatives (NDAREC). The conference is intended for engineers, line superintendents, operations and construction personnel. Consulting engineers and NDAREC associate members are also invited to attend.

2017 NATIONAL ELECTRICAL SAFETY CODE

This year's conference will feature a full-day session on "Major Changes and General Overview of the 2017 National Electrical Safety Code," on March 2. This session is designed for engineers, staking technicians, linemen and safety personnel.

CONFERENCE AGENDA

THURSDAY, MARCH 2

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| 7 to 8 a.m. | Hot Breakfast Buffet |
| 7 to 8:30 a.m. | Conference Registration |
| 8:30 to 8:45 a.m. | Welcome and Opening Announcements |
| 8:45 to 10:15 a.m. | 2017 National Electrical Safety Code (NESC) Major Changes and General Overview <ul style="list-style-type: none">▪ Introduction — Sections 01, 02, 03 and 09▪ Part 1 — Electric Supply Stations <p><i>David J. Marne, P.E., Marne and Associates, Inc.</i></p> |
| 10:15 to 10:30 a.m. | Refreshment Break |
| 10:30 a.m. to 12 p.m. | 2017 NESC Major Changes and General Overview <ul style="list-style-type: none">▪ Part 2 — Overhead Lines |

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| 12 to 12:45 p.m. | Group Luncheon |
| 12:45 to 2:15 p.m. | 2017 NESC Major Changes and General Overview <ul style="list-style-type: none">▪ Part 2 — Overhead Lines (continued) |
| 2:15 to 2:30 p.m. | Refreshment Break |
| 2:30 to 4 p.m. | 2017 NESC Major Changes and General Overview <ul style="list-style-type: none">▪ Part 3 — Underground Lines▪ Part 4 — Work Rules |
| 4 p.m. | Adjournment |
| 5 to 7 p.m. | Exhibitor Showcase and Social |

EXHIBITOR SHOWCASE AND SOCIAL ON MARCH 2

NDAREC associate members will be joining conference attendees from 5 to 7 p.m. on Thursday, March 2, for the Exhibitor Showcase and social. This is an opportunity to visit with associate members about their products and services and enjoy a hosted social, compliments of participating associate members and vendors.

FRIDAY, MARCH 3

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| 7 to 7:45 a.m. | Hot Breakfast Buffet |
| 7:45 to 8:15 a.m. | Business Meeting of the N.D. REC Engineering and Operations Association |
| 8:15 to 9 a.m. | Experiences Using the New Rural Utilities Service (RUS) Environmental Regulation and RDAApply for Construction Work Planning <p><i>Tim Bohan, general field representative, USDA-RUS</i></p> |

9 to 9:30 a.m. North Dakota School Trust Lands and Right of Ways

Michael Haupt, land management professional, North Dakota Department of Trust Lands

9:30 to 9:45 a.m. Refreshment Break

9:45 to 11:15 a.m. Right of Way 101 and Best Practices

Mike Murray, property and right of way manager, Basin Electric Power Cooperative
Shauna Laber, senior property and right of way specialist, Basin Electric Power Cooperative
Tyler McNulty, property and right of way agent, Basin Electric Power Cooperative

11:15 to 11:30 a.m. Refreshment Break

11:30 a.m. to 1 p.m. Right of Way 101 and Best Practices (continued)

1 p.m. Conference Evaluations and Adjournment

THURSDAY CONFERENCE SESSION: Major Changes and General Overview of the 2017 National Electrical Safety Code

Key topics

- Scope and purpose of the Code
- Major changes and general overview of the substation rules
- Major changes and general overview of the overhead line rules
- Major changes and general overview of the underground line rules
- Major changes and general overview of the work rules

FRIDAY CONFERENCE SESSION: Experiences Using the New RUS Environmental Regulation and RDAApply for Construction Work Planning

Key topics

- Update on the RUS project coding guide
- Lessons learned using 7CFR 1970 for the Environmental Report (ER)
- RDAApply lessons learned
- RUS Program update

FRIDAY CONFERENCE SESSION: North Dakota School Trust Lands and Right of Ways

Key topics

- Definition and understanding of school trust land
- Purpose of school trust land
- Impact of right of ways
- Question-and answer period

FRIDAY CONFERENCE SESSION: Right of Way 101 and Best Practices

Key topics

- Routing
- Initial landowner contact, survey permission and difference between easement and right of way (ROW)
- Title – different types of easements
- Dealing with city, county and state regulations
- Best practices in negotiations
- Importance of documentation – contact diary and easement types
- Crossing permits
- Importance of recording
- Ongoing landowner relations, rights of both parties to an easement
- Technology
- Importance of communication
- Open discussion

GUEST PRESENTERS



David J. Marne, P.E. is a registered professional electrical engineer and the author of McGraw-Hill's *National Electrical Safety Code (NESC) 2017 Handbook*. He serves on the NESC Subcommittee 4 Overhead Lines Clearances, Subcommittee 7 Underground Lines, Subcommittee 3 Electric Supply Stations, and the

Interpretations Subcommittee. David is also a nationally recognized speaker on the NESC.

David is company president and senior electrical engineer for Marne and Associates, Inc. in Missoula, Mont., where he specializes in NESC training, Occupational Safety and Health Administration (OSHA) training, engineering-design training and expert-witness services related to the NESC, OSHA and California General Orders (GO) GO95, GO 128 and GO 165.

He has more than 30 years of utility industry experience, in engineering and managing transmission and distribution line projects, substation projects, electrical-system planning studies, joint-use projects (power and communication), and providing training and expert-witness services.

No photo available

Tim Bohan has served cooperatives in the four-state area as the USDA-Rural Utilities Service (RUS) Electric Program General Field Representative since 2003. From 1981 to 2002, he worked in a variety of engineering and operations positions for the U.S. Navy, Westinghouse, Lockheed Martin, and the U.S. Air Force.



Mike Haupt serves as a Land Management Professional with the North Dakota Department of Trust Lands, Bismarck, and is in his 29th year in this position. The last 10 years he's worked exclusively with companies involved in the oil boom in western North Dakota.

Previous employment includes the BNSF Railroad, US Fish & Wildlife Service, Knife River Coal Mining Company, and the North Dakota State University Land Reclamation Research Center.

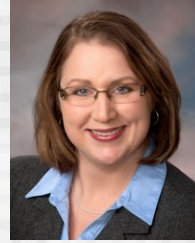
Mike holds a Bachelor of Science degree in Fish and Wildlife Management from Montana State University and a Master of Science degree in Botany and Range Management from North Dakota State University. He is a long-term member of the North Dakota Chapter of the Wildlife Society, the Society for Range Management, and the International Right of Way Association, Chapter 72.



Mike Murray has been employed by Basin Electric Power Cooperative for 26 years, of which 16 years have been involved in right of way activities. Additionally, he has managed the Property and Right of Way Department for the past eight years. Prior to this, Mike worked in Basin Electric's Records Management Department where he was responsible for the collection, data entry and maintenance of all property and right of way documentation.

Mike is the past president of the International Right of Way Associations (IRWA) Dakotas Chapter 72; past chair of the IRWA Region 3 (North Dakota, South Dakota, Minnesota, Iowa, Nebraska, Kansas and Missouri); and is a current

member of the IRWA International Ethics Committee. Mike leads a nine-member, multi-disciplinary Property and Right of Way team for Basin Electric.



Shauna Laber has been with Basin Electric Power Cooperative for eight years and a Property and Right of Way Specialist for the past six. Previously, Shauna held a variety of positions in mining, aircraft maintenance and accounting.

Shauna is an elected City Commissioner for the City of Mandan, serves as a member at large on the City of Mandan's Planning and Zoning Commission, a member of the Morton County Planning and Zoning Commission, and sitting board member for Prevent Child Abuse North Dakota. She uses these various skills to negotiate, acquire, manage and maintain landowner and contractor relationships to meet Basin Electric's power-supply deliverables and project goals.



Tyler McNulty is a lifelong resident of North Dakota, having participated in undergraduate studies at the University of North Dakota and graduate studies at the University of Mary. He currently works as a Property and Right of Way Agent for Basin Electric Power Cooperative.

Tyler has been a part of the Property and Right of Way Department for five years, and has been involved in many aspects of right of way work and property management throughout his tenure. In gaining valuable experience through mentorship opportunities with his co-workers, Tyler hopes to continue in the right of way profession within the Basin Electric family.

REGISTRATION INFORMATION

Please register for the conference by **Friday, Feb. 17**. Complete the attached registration form and return to Pamela Clark-Stein, director of education and member services, NDAREC. Registrations may be emailed to pstein@ndarec.com.

The training offered via the conference sessions are part of the 2017 NDAREC Menu of Education Programs and is open to other cooperative employees and NDAREC associate members who wish to attend.

REGISTRATION FEE

The registration fee is \$225/person. This covers the cost of course materials, meals and refreshment breaks. If you need to cancel, please let Pamela Clark-Stein know at least 48 hours in advance of the conference. Without notice of cancellation, you will be billed for the registration fee, all meals and refreshment breaks.

CLASS MATERIALS

- Attendees will receive a hard copy or PDF of the NESC class presentation. The presentation materials are copyrighted by Marne and Associates, Inc. with permission from the McGraw-Hill companies. Class materials are reserved for registered conference attendees only and may not be duplicated.

- Attendees are encouraged (but not required) to bring a copy of the *NESC Codebook* and McGraw-Hill's *NESC Handbook*. An order form is included as a separate attachment for your convenience.

These books are also available for purchase online at www.codehandbook.com.

HOTEL ACCOMMODATIONS — SLEEP INN & SUITES, MINOT

For your convenience, a block of sleeping rooms is reserved for March 1 and 2 at the Sleep Inn & Suites, 2400 10th Street SW, Minot. The block is reserved under "N.D. REC Engineering and Operations Conference," and will be held until Feb. 24. After Feb. 24, the reserved block will be released for booking by the general public.

Conference attendees are responsible for making their own room reservations. Please call the Sleep Inn & Suites, at 701.837.3100 to make your reservation. **Please be sure to mention the following when you make your reservation: 1) reserved room block for the N.D. REC Engineering and Operations Conference and 2) the dates of the conference, March 2 and 3.**

PLANNING COMMITTEE

Brad Doll, Verendrye Electric Cooperative
Wesley Mason, Verendrye Electric Cooperative
Tony Wood, Mountain Plains, LLC
Pamela Clark-Stein, NDAREC

N.D. REC Engineering & Operations Conference

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Registration instructions:

- Provide the name of the registrant and their email address.
- Please return completed registration form by Feb. 17 to the North Dakota Association of Rural Electric Cooperatives, Attn: Pamela Clark-Stein, fax (701) 663-3745 or e-mail: pstein@ndarec.com.
- For your convenience, a block of sleeping rooms is reserved for March 1 and 2 at the Sleep Inn & Suites, 2400 10th Street SW, Minot. The block is reserved under "N.D. REC Engineering and Operations Conference," and will be held until Feb. 24. After Feb. 24, the reserved block will be released for booking by the general public.
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- The room rate is \$79/night for double queen and king, and \$89/night for double queen and king suites. Cancellation of confirmed rooms are required 24 hours prior to noon on day of arrival to avoid penalty charges. Late cancellations received before noon on day of arrival require a 50-percent penalty for late cancellation. No shows require a 100-percent penalty for first night only and automatic cancellation of remaining duration of reservation. Early departures necessitate a 50-percent penalty for one day only.

Name	Email address
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10. _____	_____

Cooperative: _____

BILLING AND CANCELLATIONS: If you need to cancel a registration, please let Pamela Clark-Stein know 48 hours in advance of the conference. In the case of a no-show or late cancellation (less than 48 hours), your cooperative or company will be billed for the registration fee, meals and refreshment breaks.