

AGRICULTURAL WIRING CODE WORKSHOP

March 2, 2011

and

49TH ANNUAL RURAL ENERGY CONFERENCE

March 3-4, 2011

Embassy Suites
Bloomington, Minnesota



Sponsored by

Midwest Rural Energy Council
University of WI, MN, Iowa and South Dakota State
Extension
University of WI Biological Systems Engineering Dept.
University of MN Biosystems and Agricultural
Engineering Dept.
Iowa State University Agricultural and Biosystems
Engineering Dept.
South Dakota State University Agricultural and
Biosystems Engineering

Workshop Agenda

Agricultural Wiring Code Workshop



Don Nemeth of Midwestern Electrical Seminars Inc. will be providing this one day seminar on updates to the 2011 Code with a focus on Article 547 Agricultural Buildings and other issues related to neutral to earth voltage. Eight (8) hours of continuing education credits will be available for attendees from Minnesota, North Dakota, South Dakota and Wisconsin.

Don is a member of the International Association of Electrical Inspectors and has over 30 years experience teaching National Electrical Code and is an approved Electrical Division Continuing Education instructor. He is a Minnesota Class "A" Master Electrician license holder, has over 13 years experience as a State of Minnesota Electrical Inspector and Electrical Area Representative for the Minnesota Department of Labor & Industry, Electrical Division for more than 17 years.

Wednesday, March 2

- 7:00 AM Registration and Refreshments (Full breakfast is provided with your guest room reservation at the Embassy Suites.)
- 8:00 **Agricultural Wiring Code Class**
- 12:00 PM Lunch
- 1:00 **Agricultural Wiring Code Class** (continues)
- 5:00 Dinner

Please note: The conference and workshop are two different events. You can register for either one or both. Please see the registration panel.

MREC Officers, Executive Committee and Board of Directors

Officers

President - Mark Weber, Whetstone Valley Electric (SD)
Vice President - Corey Kutcha, Wisconsin Public Service Corporation (WI)
Treasurer - Chuck DeNardo, We Energies (WI)
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David Oelkers, Riverland Energy (WI)
Roger O'Neil, Xcel Energy (MN, SD, WI)
Troy Schiltz, Tri-County Electric Coop (MN)
Ken Schlimgen, Central Electric Cooperative, Inc. (SD)
Mark Schoon, Madison Gas & Electric Company (WI)
Dan Tonder, Minnesota Power (MN, WI)
Tim Weir, Stearns Cooperative Electric Association (MN)*

* Member of MN Rural Electric Association (MREA)

** Member of WI Electric Co-op Association (WECA)

Conference Agenda

This year's annual conference will again feature two tracks, one focused on agricultural wiring, electrical distribution and stray voltage issues and the other on energy efficiency and renewable energy development in agricultural operations. All of the breakouts will be presented multiple times so that you can choose from both tracks to design your own conference agenda.

Thursday, March 3

- 7:00 AM Registration & Refreshments (Full breakfast is provided with your guest room reservation at the Embassy Suites.)
- 8:00 **Welcome and Conference Overview** - Mark Weber, Whetstone Valley Electric, MREC President
- 8:15 **Overview of Isolation Methods** - Henry Tachik, Dairyland Isolators
- 9:45 Break
- 10:00 **Breakout Session 1**
- 11:00 **Breakout Session 2**
- 12:00 PM Lunch
- 1:00 **Breakout Session 3**
- 2:00 **Breakout Session 4**
- 3:00 Break
- 3:15 **Breakout Session 5**
- 4:15 **Breakout Session 6**
- 5:30 Dinner and Round Table
- Discussion of Current Issues**

Friday, March 4

- 7:30 AM Refreshments (Full breakfast is provided with your guest room reservation at the Embassy Suites.)
- 8:00 **MREC Business Meeting** - Mark Weber, Whetstone Valley Electric, MREC President
- 8:30 **Biomass for Heat and Power** - Troy Runge, Director of the Wisconsin Bioenergy Initiative and Bill Johnson, Biomass Consulting Service
- 10:30 Break

Friday, March 4 (continued ...)

- 11:00 **Dairy Herd Management** - Roger Mellenberger, Professor Emeritus, Michigan State University
- 12:00 PM **Adjourn**

Break-out Sessions

Track 1: Farm Wiring, Stray Voltage, and Electrical Distribution

- Arc Flash Protective Gear** - Tom Seidl, WE Energy
- Dairyland Variable Threshold Isolators: Performance and Testing**, Henry Tachik, Dairyland Isolators
- Stray Voltage and Dairy Cows**, Roger Mellenberger, Professor Emeritus, Michigan State University
- REPS Program Update**, Dave Hansen and John Marks, Wisconsin Department of Ag Trade and Consumer Protection
- Stray Voltage and Livestock Waterers**, Bob Fick, Alliant Energies
- Effective Communications: Get Your Message Across Without Getting Burnt Out**, Mary K. Reinemann, Integral Communications

Track 2: Energy Efficiency and Renewable Energy

- Ag Business Innovation Center** - Rebecca Baumann, Wisconsin Public Service Corporation/**Energy Efficiency Decision Making** - Tom Syring, MREC Scholar
- Wind Siting Regulations**, Jenny Heinzen, Lakeshore Technical College
- Status of Feed In Tariffs and Interconnect Costs for Bio-Gas Projects**, Joe Schultz, GDS Associates
- How Wind Energy is Affecting the MISO Market**, Andrew Hall, ACES Power Marketing
- Wind Energy Battery Storage Project**, Nancy Pellowski, Excell Energy
- Wind Energy Hot Water Storage Project**, Greg Flege, Dairyland Power Cooperative



Registration

Please refer to the registration panel for workshop and conference fees. The **Agricultural Wiring Code Workshop fee includes** materials, breaks, lunch and dinner. Hotel accommodations are not included in the fee. Please note that breakfast is included with your guest room reservation at the Embassy Suites hotel.

The **Conference registration fee includes** materials, breaks, lunch, reception, and dinner Thursday. A break is included on Friday. Hotel accommodations are not included in the fee. Please note that breakfast is included with your guest room reservation at the Embassy Suites hotel.

Make check payable to: UW-Madison

Mail or fax to:

CALS Conference Services, 620 Babcock Drive
Madison, WI 53706; Fax: (608) 262-5088

Or register on-line at:

<http://www.peopleware.net/2723>

Cancellations: In order to receive a full refund, you must cancel by contacting CALS Conference Services at (608) 263-1672 prior to February 16. If you fail to cancel by February 16, the full fee will apply. Substitutions are welcome at any time.

Questions: Call CALS Conference Services at (608) 263-1672.

Location & Lodging

A confirmation notice and map will be mailed upon receipt of registration. The conference will be held at:

Embassy Suites Hotel - Minneapolis Airport
7901 34th Avenue South, Bloomington, MN 55425
Phone: (800) 362-2779; or Online: www.embassyspairport.com and use group code UWM.

A block of rooms has been reserved until February 8, 2011 for conference participants at the nightly rate of \$139, plus 14.275% taxes. Breakfast is included with your guest room reservation. Be sure to mention that you are attending the *MREC Rural Energy Conference* to receive the special rate.

Registration Form

49th Annual Rural Energy Conference & Workshop March 2-4, 2011

Complete a separate registration form (or copy) for each registrant or register on-line at:
<http://www.peopleware.net/2723>

Early registration deadline is February 16, 2011

Name _____

Company _____

Address _____

Circle one: Home or Business

City/State/Zip _____

Daytime Phone _____

E-mail _____

The workshop and conference are separate events. You can register for one or both.

Agricultural Wiring Code Workshop - March 2

\$ 175 (\$200 received after February 16)

Rural Energy Conference - March 3-4

\$ 325 (\$350 after February 16)

_____ **Total Enclosed**

Payment must be made at time of registration.

Enclose fee. Checks payable to **UW-Madison**

Check enclosed

Please charge on the following account

_____ VISA	_____ Master Card
Card Number _____	
Exp. Date _____	Name on Card _____
Signature _____	

Register on-line at:

<http://www.peopleware.net/2723>