

# AGRICULTURAL WIRING CODE WORKSHOP

February 25, 2009

and

# 47TH ANNUAL RURAL ENERGY CONFERENCE

February 26-27, 2009

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 2008 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, February 25

- 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

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**Ronald Roodell**, Jackson Electric Cooperative (WI)  
**Ken Schlimgen**, Central Electric Cooperative, Inc. (SD)  
**Tim Weir**, Stearns 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, February 26

- 7:00 AM Registration & Refreshments  
(Full breakfast is provided with your guest room reservation at the Embassy Suites.)
- 8:00 **Welcome and Conference Overview** - *Troy Schiltz*, Tri-County Electric, MREC President
- 8:30 **Virtual Tour of Integrated Dairy and Energy Production Facility** - *John Vrieze*, Emerald Dairy
- 10:00 Break
- 10:30 **Breakout Session 1**
- 11:15 **Breakout Session 2**
- 12:00 PM Lunch
- 1:00 **Breakout Session 3**
- 1:45 **Breakout Session 4**
- 2:15 Break
- 2:45 **Breakout Session 5**
- 3:30 **Breakout Session 6**
- 5:00 Dinner and Evening Program  
**Establishing Customer Relations** - *Susan Crane*, WE Energies

### Friday, February 27

- 7:30 AM Refreshments  
(Full breakfast is provided with your guest room reservation at the Embassy Suites.)
- 8:00 **MREC Business Meeting** - *Mike Kawleski*, Wisconsin Public Service Corporation, MREC Vice President
- 8:30 **Review of Stray Voltage Rules and Regulations in the U.S.** - *Chuck DeNardo*, WE Energies
- 9:00 **Ontario Energy Board Tingle Voltage Review Process and Results** - *Stephen Cain*, Ontario Energy Board
- 10:30 Break

### Friday, February 27 (continued ...)

- 11:00 Virtual Tour of Ongoing Stray Voltage Research in France
- 12:00 PM **Adjourn**

## Break-out Sessions

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

- 1. Installation and Overview of Phase Converters and VFDs** - *Robin Priestley*, Rockwell Automation
- 2. Qualification of Experts**, *Rod Lewis*, Warner Norcross & Judd
- 3. Veterinarians Field Experience**, *Dr. John Roberts and Dr. John Marks*, Wisconsin Department of Agriculture Trade and Consumer Protection
- 4. Induced Voltages on Electric Fences**, *Paul Ortmann*, Idaho Power
- 5. Load Box Testing on 3 Phase Service**, *Tom Seidl*, WE Energies
- 6. ATC & LDC NEV Coordination Efforts**, American Transmission Company

### Track 2: Energy Efficiency and Renewable Energy

- 1. Algae Biodiesel Research** - *Dr. Roger Ruan*, University of Minnesota
- 2. Benefits of Geographically Dispersed Wind Energy Development**, *Jeannette LeBoyer*, MREC Scholar
- 3. Farm Energy Audit Case Study**, *Fred Daniels*, Franklin Energy
- 4. What's New in Biofuels and BioEnergy**, *Norm Olson*, Iowa Energy Center BECON Facility
- 5. Biomass Co-combustion: The Alliant Experience**, *Bill Johnson*, Alliant Energy
- 6. Putting Biogas into Natural Gas Pipelines**, *Mark Torresani*, Cornerstone Environmental Group



## 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 13. If you fail to cancel by February 13, 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 55425-1605  
Phone: (952) 854-1000 or (800) 362-2779

A block of rooms has been reserved until February 3, 2009 for conference participants at the nightly rate of \$139, plus 13.65% 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

### 47th Annual Rural Energy Conference & Workshop February 25-27, 2009

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 13, 2009**

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 - February 25

\$ 175 (\$200 received after Feb. 13)

### Rural Energy Conference - February 26-27

\$ 325 (\$350 after Feb. 13)

\_\_\_\_\_ 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>