

59th Annual Rural Energy Conference

February 10 - 11, 2022

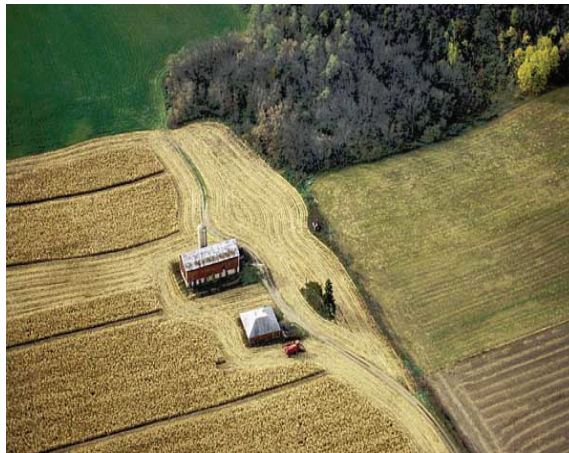
and

Pre-Conference Workshop

Advice to Stray Voltage Investigators

February 9, 2022

Radisson Hotel
La Crosse, Wisconsin



Sponsored by

Midwest Rural Energy Council
University of Wisconsin, Minnesota, Iowa, and South
Dakota State Extension
University of Wisconsin Biological Systems
Engineering Department
University of Minnesota Bioproducts and Biosystems
Engineering Department
Iowa State University Agricultural and Biosystems
Engineering Department
South Dakota State University Department of Agricultural
and Biosystems Engineering

Workshop Agenda Advice for Stray Voltage Investigators



This year's pre-conference workshop is designed for those new to the topic of stray voltage and for professional stray voltage investigators. The workshop will provide the audience with a basic understanding of stray voltage sources and solutions and present the current state and challenges to measure and determine the sources of voltage and current on a farm. There will be plenty of time for discussion and question and answer sessions. The workshop will be taught by Tom Seidl (We Energies), Robert Fick (Alliant Energy), Paul Ortmann (Idaho Power), Michael Haas (Alliant Energy), and Brian Costello (Alliant Energy), who are experienced stray voltage investigators and have been teaching the stray voltage investigation courses for the past decade.

Wednesday, February 9

Workshop Schedule:

12:45 pm Registration (lunch on own)
1:00 pm Workshop begins
3:00 pm Break
3:20 pm Workshop resumes
5:00 pm Workshop ends (dinner on your own.)

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

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** Member of WI Electric Co-op Association (WECA)
+ Member of SD Rural Electric Association (SDREA)
++ Member of IA Association of Electric Co-ops (IAEC)

Conference Agenda

This year's annual conference will focus on energy issues in agriculture. All of the breakouts will be presented twice so that you can choose from both tracks to design your own conference agenda. Note that conference speakers and presentations are still being finalized and changes may occur. Please check the website of the Midwest Rural Energy Council for updated information at: <https://mrec.org/>.

Thursday, February 10, 2022

- 7:30 AM **Registration & Breakfast**
- 8:00 **Welcome and Conference Overview**
Matt O'Shea, Sterns Electric Association, MREC President
- 8:15 **Large Solar Installations in Rural Areas** - *Eric Udelhofen, OneEnergy*
- 9:45 **Break**
- 10:00 **Hosting Capacity, Challenges for Distribution, and Power Quality**
Ed Shannon, Ulteig
- 11:00 **Renewable Natural Gas (RNG) issues and updates** - *Hardy Sawall, U.S. Gain*
- 12:00 PM **Lunch**
- 1:00 **Breakout Session 1**
- 2:00 **Breakout Session 2**
- 3:00 **Break**
- 3:15 **Breakout Session 3**
- 4:15 **Breakout Session 4**
- 5:30 **Buffet Dinner & Awards Ceremony**

Exhibits and posters will be on display all day Thursday. Presenters will be available during breaks.

Friday, February 11, 2022

- 7:30 AM **Breakfast**
- 8:00 **Updates from MREC - All invited**
Alan Fazio, Lake Region Electric Cooperative, MREC Vice-President

Friday, February 11 (continued ...)

- 8:30 **Dairy Outlook-2022, Supply, Demand, and Inflation**, *Mark Stephenson, Dairy Policy Analysis, UW-Madison*
- 9:45 **Break**
- 10:00 **Applied Ethics** -*Thomas Thibodeau, Viterbo University*
- 11:00 **Farm Automation** - *Nathan Brandt & Ben Peterson, Four Cubs Dairy Farm*
- 12:00 PM **Adjourn**

Thursday Breakout Sessions

Track 1: Farm Wiring and Electrical Safety

- Technical Review of the Challenges and Impacts DER Interconnections on the Distribution System** - *Ed Shannon, Ulteig*
- The Agricultural Impact Statement Process and Opportunities for Engagement** - *Zach Zopp, DATCP - Agricultural Impact Statement Program*
- The Paradigm Shift from Centralized Bulk Generation to Renewables/Power Electronics at the Grid Edge** - *Dominic Gross, UW-Madison*
- Introduction to the IEEE 1695 Guide to Understanding, Diagnosing, and Mitigating Stray and Contact Voltage** - *Paul Ortman, Idaho Power*

Track 2: Renewable Energy and Efficiency

- RNG Renewable Energy Credits, Purchase, & Trading** - *Hardy Sawall, U.S. Gain*
- Farm Scale Solar, Experience, and Lessons Learned** - *Dave Daniels, MGD Farms*
- Intelli-Farms: Grain Bins, Irrigation, Demand Management** - *Jared Holland, IntelliFarms*
- Utility-Scale Solar in Rural America –Current & Future Best Practices for Solar Projects** - *Eric Udelhofen, OneEnergy*



Registration

Please refer to the registration panel for workshop and conference fees. Advice to Stray Voltage Investigators includes materials and break (lunch and dinner are on your own). Hotel accommodations are not included in the fee.

The **Conference registration fee includes** materials, breakfast, breaks, lunch, reception, and dinner buffet Thursday. A breakfast and break is included on Friday. Hotel accommodations are not included in the fee. Attendees are responsible for booking their own overnight accommodations.

Make check payable to: Conference Management - MREC-2022 Conference

Mail to: Wisconsin Union, Conference Management, 800 Langdon Street, Madison, WI 53706

Or register online at:
<https://uwmadison.eventsair.com/mrec2022/reg>

Cancellations: All cancellations must be made in writing to conferences@union.wisc.edu by Wednesday, January 26, 2022 in order to receive a partial refund. A \$100 process and handling fee will be assessed to any cancellation made by the deadline. Cancellations after Wednesday, January 26, 2022 will not receive a refund. Substitutions are welcome at any time.

Questions: Call Conference Management at 608-263-8301

Location and Lodging

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

The Radisson Hotel La Crosse
200 Harborview Plaza, La Crosse, WI 54601
Phone: (608)784-6680 or (800) 333-3333

A block of rooms has been reserved until January 8, 2022 (or until all rooms are reserved, whichever comes first) for conference participants at the nightly rate of \$129/one king bed or \$139/two queen beds, plus taxes. Be sure to mention that you are attending the MREC Rural Energy Conference to receive the special rate.

Registration Form

59th Annual Rural Energy Conference & Workshop February 9-11, 2022

Complete a separate registration form (or copy) for each registrant or register online at:

<https://uwmadison.eventsair.com/mrec2022/reg>

Early registration deadline is January 12, 2022.

Name _____

Company _____

Job Title _____

Address _____

City/State/Zip _____

Daytime Phone _____

E-mail address to access coursework:

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

Pre-Conference Workshop, Advise to Stray Voltage Investigators - February 9

\$ 195 (\$220 received after January 12)

Rural Energy Conference - February 10-11

\$ 395 (\$420 received after January 12)

_____ Total Enclosed

Payment must be made at time of registration.

Enclose fee. Checks payable to Conference Management - MREC-2022 Conference

Check enclosed

Please charge on the following account:

VISA Master Card American Express or

Discover
Card Number _____

Exp. Date _____ Name on Card _____

Signature _____