

Spend Some Time with Mike and Get it Right Grounding versus Bonding Seminar



About Your Presenter

Mike is nationally recognized as one of America's foremost experts and knowledgeable electrical trainers. His instruction has helped tens of thousands of electrical professionals ensure the proper design and installation of electrical systems in accordance with the *NEC*. His dynamic and animated teaching style is relaxed, direct and enjoyable. Perhaps Mike's best quality is his ability to communicate technical topics in an easy-to-understand manner.



November 2-3, 2005

Antigua Bay Resort & Conference Center
Wisconsin Dells (800) 543-3557 • Exit 87 off I-90/94 Hwy 13

Day 1: Dinner and Program

Dinner: 6 P.M. Program: 7 P.M. (Mike will be available to sign books)

Day 2: Full-Day Seminar

Seminar: 8 A.M. – 5 P.M.

**Group Discount: Register 5 or more from your company
and save as much as \$45 each!**

**** Apprentices and Instructors pay the group fee regardless of numbers**

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3

WAYS TO
REGISTER

Phone: (608) 244-6056

Mail: ABC of Wisconsin, Inc. • 5330 Wall Street • Madison, WI 53718

Fax: 608-244-2401 • Website: www.abcw.org (download PDF to fax)

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For more than one registration, add a sheet with above information for each registrant.

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CREDIT CARD # : _____ Security Code* _____ Exp. Date: _____

*3- or 4-digit security number on front for AmEx and on back for all others

Grounding versus Bonding Seminar

ABC W/WBA Member pricing

Qty Single Registration

___ Day 1 Only Dinner/Program	\$ 75 \$ _____
___ Day 2 Only Grounding versus Bonding Seminar	\$195 \$ _____
___ Both Day 1 and 2	\$245 \$ _____

Qty Group Registration (5 or more from one company)

___ Day 1 Only Dinner/Program	\$ 75/ea \$ _____
___ Day 2 Only Grounding versus Bonding Seminar	\$145/ea \$ _____
___ Both Day 1 and 2	\$200/ea \$ _____

Total Registration Fee

Early Bird Discount (by October 3, 2005) 25% of Total _____

Non-members contact ABC WI for pricing.

TOTAL DUE \$ _____

Confused about Grounding? Who's Not!

Grounding and Bonding of electrical systems, sensitive electronic, and communications equipment is the most important and least understood activity in the electrical, data processing and communications industry. Mike will explain the following topics in an informal and relaxed style using PowerPoint full-color graphics and examples that apply to today's electrical installations. Those attending this high-energy program will learn the basics as well as the advance concepts necessary to understand the practical grounding and bonding rules in the *NEC* for systems not over 600V.



Do you need to attend this seminar? Take this quiz and find out!

- Q. When electrical current is provided with multiple conductive paths on which to flow, current will always take the path of least resistance?
- Q. Grounding ensures that dangerous voltage on metal parts from a ground fault can be removed or be reduced to a safe level?
- Q. If an electrical system is properly installed, the voltage between the neutral terminal and the ground terminal at a receptacle should be near zero?
- Q. Grounding premises wiring to a low resistive grounding grid can help reduce stray voltage?

If you answered true to any of the above questions, then you need to attend this seminar! For a more comprehensive quiz, please visit www.mikeholt.com/MHGVVB/

Seminar Topics

Evening Program

Introduction to Grounding versus Bonding

Full-Day Seminar

Grounding Fundamentals

Purpose of Grounding and Electrical Fundamentals
Lightning Protection and TVSS Protection
Earth Grounding versus Equipment Grounding
Effective Fault-Current Path
Stray Voltage and Current
Proper Neutral-to-Ground connections
Ground Loops
Objectionable Currents (Net Current)
EMI and RF Interference

System Grounding

Services Equipment – Section 250.24
Transformers – 250.30
Generators – Section 250.30
Separate Buildings and Structures – Section 250.32
Portable and Vehicle Generators – Section 250.34

Grounding Sensitive Electronic and Communications Equipment

The Grounding Electrode System
Ufer Ground
Grounding Sensitive Electronic Equipment
(Isolated and Signal Reference Ground)
Grounding of Communications Systems
(Telephone, CATV, Satellite Dishes, Antennas)
Grounding Data and Instrumentation Cables



Get Mike's *Grounding versus Bonding* book FREE when you attend this seminar, or order the home-study course which includes the textbook, DVDs or videos

For More Information Please Contact: Ellie Hein ehlein@abcwi.org 608-244-6056