



On behalf of:

The **Delaware Valley Power Quality Group**, established in 1993, is a volunteer not-for-profit organization dedicated to providing a state of the art educational forum for the exchange of information pertaining to Power Quality issues and the most technically up to date products and practices.



Located East of US 1, South of Philadelphia city limits. Entrance is off N. Lynn Blvd. in Upper Darby, PA. [North of the intersection of US 1 (Township Line Rd.) and Rt. 3 (West Chester Pike)] Online directions: <http://www.mccallgolf.com/directions.htm>

You are cordially invited to the
Quarterly Meeting of the
Delaware Valley Power Quality Group

to be held from 9:00 AM to 4:30 PM on
Wednesday, March 26, 2008 at

***PECO Energy McCall Field
Conference Center
N. Lynn Blvd.
Upper Darby, PA***

Meeting Agenda:

**Grounding and Bonding:
Doing It Right and Why**

Main Speaker:

**S. Frank Waterer, III
Square D Engineering Services**

**IT'S TIME TO RENEW YOUR
DVPQG MEMBERSHIP FOR 2008.
3 YEAR RENEWAL IS THE BEST
VALUE!**

Grounding and Bonding: Doing It Right and Why

Program Summary:

Power quality. Grounding. We've all read or listened to how these two topics intertwine from our technical journals, industry standards, and various presenters. Yet the interest of the topic seems to stand the test of time. The references we use are numerous: Green Book, Emerald Book, NEC, white papers, equipment vendor manuals, etc., yet our interest continues to grow. Questions on proper grounding of services, rules of neutral to ground bonds, how to ground computer rooms / data centers, separately-derived vs. non-separately-derived system grounding, defense against damaging transients caused by lightning, why ground at all.....these and many other grounding concerns will be explored in a very unique presentation.

Speaker: S. Frank Waterer, III

This quarter, our speaker is Mr. Frank Waterer – one of our industry's experts focused on grounding and transient surge suppression. Mr. Waterer has been field investigating and solving power quality/grounding related problems for many years and continues in this role today as a Senior Consulting Engineer for Square D Engineering Services. To reach this level of expertise, Frank carries a very diverse 30 years of electrical power experience from his early field days within his family's electrical contractor business, through his contributions to Houston Power & Light, and later as a leading consultant to Square D's equipment manufacturing sector. Formally, Mr. Waterer received the BS degree in Electrical Engineering from the University of Houston, Houston, TX in 1980. He is a member of the IEEE Industrial Applications Society and the Power Engineering Society. He is also Chairman of the IEEE Surge Protective Device Sub-Committee that is responsible for the development of all IEEE Standards relative to low voltage Surge Protective Devices. He is a contributor to revisions in IEEE Standard C62.41, *IEEE Recommended Practice on Surge Voltages in Low-Voltage AC Power Circuits* and IEEE Standard C62.45 *IEEE Guide on Surge Testing for Equipment Connected to Low-Voltage AC Power Circuits*. He is presently the Task Force Chairman and editor for the development of various IEEE/SPD Application Guides.

Come listen to Mr. Waterer simplify the maze of grounding concepts as related to power quality and transient suppression, told through years of field investigation and equipment design experience.

Meeting Information:

Place: PECO Energy McCall Field
Conference Center
N. Lynn Blvd.
Upper Darby, PA

Date: Wednesday, March 26, 2008
Time: 9:00 AM to 4:30 PM

Lunch Will Be Provided
Please RSVP by Fri., Mar. 21, 2008

REGISTRATION:

NAME: _____

COMPANY: _____

ADDRESS: _____

City: _____ State: _____ Zip: _____

PHONE: () _____

(Include area code)

FAX: _____

E-Mail: _____

Category: Academic Contractor Utility

Consultant Manufacturer (Rep) End User

Registration Fee:

To become a 2008 member of the DVPQG and receive notification of all future meetings, training, and events, please select the appropriate option. Yearly membership runs from January 1 to December 31 of each year.

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|-----------------------------|------------------------------|----------|
| 1. <input type="checkbox"/> | Meeting – DVPQG Member | \$ 35.00 |
| 2. <input type="checkbox"/> | Meeting – Non-Member | \$ 55.00 |
| 3. <input type="checkbox"/> | Mtg. & 2008 Membership | \$ 60.00 |
| 4. <input type="checkbox"/> | Meeting & (3) yr. Membership | \$105.00 |
| 5. <input type="checkbox"/> | 2008 Membership Only | \$ 30.00 |

SEATING IS LIMITED! Please pre-register...Registration at the door is **\$5.00** extra. (Cancellation and Refund: To cancel your registration and receive a full refund, you must contact DVPQG (i.e. email: treasurer@dvpqg.org or call 717.721.4903) at least 24 hours prior to the meeting. Otherwise, no refunds will be issued.)

Please mail this registration form and a check, made out to "Delaware Valley Power Quality Group, Inc.", for the appropriate registration to:

Delaware Valley Power Quality Group, Inc.
P.O. Box 511
East Petersburg, PA 17520-0511

Please respond by March 21, 2008
Please be complete in filling out registration.

You may also pre-register by E-mail to registrations@dvpqg.org and then mail your payment.