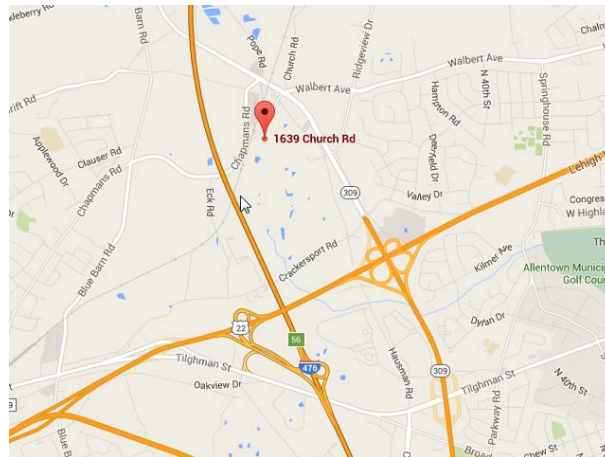




On behalf of:

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.



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

to be held from 10:00 AM to 3:00 PM on
Wednesday, March 28th, 2018 at

PPL Walbert Learning Center
1639 Church Road
Allentown, PA 18104-9342
(GPS: Walbert or South Whitehall Twp., PA)

Meeting Agenda:

**Power Quality Symptoms, Sources
and Solutions**

Main Speaker:

Dan Carnovale, P.E.
Eaton Corporation

IT'S TIME TO RENEW YOUR DVPQG
MEMBERSHIP FOR 2018. 3 YEAR
RENEWAL IS THE BEST VALUE!

Directions from the Philadelphia area:

Take I-476 North towards Allentown, PA. to Exit 56 onto US 22 East. Take US 22 East for about 1.5 miles. Merge onto PA-309 North towards Tamaqua for about 1.25 miles. Turn left onto Church Road for about 0.3 miles to the PPL Walbert Learning Center on the left at 1639 Church Road. When parking, utilize the '**First Move Forward**' approach by backing in so as to move forward when leaving. (Coord.: 40.608752, -75.570712 or N40° 36' 32", W75° 34' 15")



Power Quality Symptoms, Sources and Solutions

Program Description:

This presentation will cover the symptoms of Power Quality issues and discuss the sources of these problems so that solutions can be evaluated based on the economic and technical trade-offs of these solutions. Using rules of thumb and case studies, the presentation will discuss why some solutions will work and why some solutions may not be appropriate.

- *Voltage Sags/Interruptions*
- *Surge Protection*
- *Harmonics*
- *Power Factor Correction*
- *ASD's/VFD's*
- *Wiring and Grounding*

Speaker: Dan Carnovale, P.E., Eaton Corporation

The presenter is Dan Carnovale, P.E. from Eaton Corporation who designed and manages a demonstration center in Pittsburgh called the Power Systems Experience Center (PSEC). (www.eaton.com/experience). At the PSEC, visitors can see full scale demonstrations of Power Quality problems and solutions. With PQ instrumentation and visual learning, demonstrations come to life and very technical subjects become clear and understandable. Some of the information and training material used at the PSEC will supplement this training program.

When parking at the Walbert Learning Center, utilize the 'First Move Forward' approach by backing in so as to move forward when leaving.

Meeting Information:

**Place: PPL Walbert Learning Center
1639 Church Road
Allentown (South Whitehall), PA
18104-9342**

**Date: Wednesday, Mar. 28th, 2018
Time: 10:00 AM to 3:00 PM**

**Lunch Will Be Provided
RSVP by noon Wednesday, Mar. 21st, 2018**

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: Check or Cash only
To become a 2018 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.

- | | | |
|-----------------------------|---|-----------------|
| 1. <input type="checkbox"/> | Meeting – DVPQG Member | \$ 55.00 |
| 2. <input type="checkbox"/> | Meeting – Non-Member | \$ 75.00 |
| 3. <input type="checkbox"/> | Mtg. & 2018 Membership | \$ 80.00 |
| 4. <input type="checkbox"/> | Meeting & (3) yr. Membership | \$115.00 |
| 5. <input type="checkbox"/> | 2018 Membership (1 yr.) | \$ 30.00 |
| 6. <input type="checkbox"/> | 2018-2020 Membership (3 yr.) | \$ 75.00 |

SEATING IS LIMITED! Please pre-register...Registration at the door is **\$10.00** extra. (Cancellation Policy: Registrations are non-refundable. To cancel your registration and receive a credit for a future meeting, you must contact DVPQG (i.e. email: treasurer@dvpqg.org or call 717.252.4730) at least 24 hours prior to the meeting. Otherwise, no credit 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.
5410 Mt. Pisgah Rd.
York, PA 17406

Please respond by Mar. 21st, 2018
Please be complete in filling out registration.

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

Attendees receive Certificate of Completion for 4.0 Hours!
(applicability and credit may vary between jurisdictions)