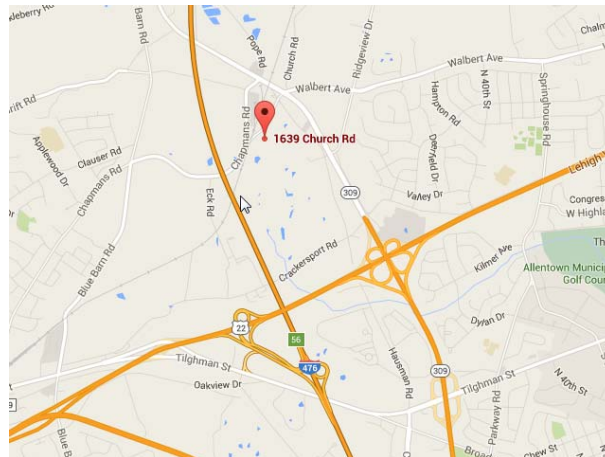




On behalf of:

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.



**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")

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, May 3<sup>rd</sup>, 2017** at

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

Meeting Agenda:

**VFD's/Reduced Voltage Starting –  
Application Considerations**

Main Speaker:

**Michael Fahrney,**  
**Switchgear Solutions, LTD.**

**IT'S TIME TO RENEW YOUR DVPOG**  
**MEMBERSHIP FOR 2017. 3 YEAR**  
**RENEWAL IS THE BEST VALUE!**



---

---

# VFD's/Reduce Voltage Starting – Application Considerations

**Program Description:** Outline of program topics to be covered includes

- A. Basics of AC Motor Control
- B. Comparison of Motor Starting Methods
- C. Theory of Reduced Voltage Solid State Starters
- D. LV VFD's Theory of Operation
- E. Application Considerations
- F. VFD Packaging Considerations
- G. MV Starters and Drives
- H. MV Application Considerations
- I. MV VFD Comparison of Topologies
- J. Rectifier Comparisons
- K. Troubleshooting and Commissioning.

## Speaker: Michael Fahrney, Vice President of Sales & Marketing, Switchgear Solutions, Ltd.

Mike Fahrney is the Vice President of Sales & Marketing for SSL. Mike has 20+ years of experience in the electrical industry with a focus on motor controls, power distribution and engineered solutions. Recognized as a leader in this field, Mike has conducted a variety of motor control classes and seminars concentrating on drives, starters and harmonic mitigation. Recently he had an IEEE paper published on harmonic mitigation techniques. Mike has had significant sales and application experience and has worked with Fortune 500 companies, electrical contractors, engineering firms, and electrical distribution to provide value engineered solutions for his customers. Mike has held several key positions throughout his career including VFD Product Manager, Distribution Sales Manager, Low Voltage Marketing Manager, General Manager – Drives Division, and Product Line Director.

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, May 3rd, 2017  
Time: 10:00 AM to 3:00 PM

Lunch Will Be Provided  
RSVP by noon Monday, May 1st, 2017

### 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 2017 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       | \$ 50.00 |
| 2. <input type="checkbox"/> | Meeting – Non-Member         | \$ 75.00 |
| 3. <input type="checkbox"/> | Mtg. & 2017 Membership       | \$ 75.00 |
| 4. <input type="checkbox"/> | Meeting & (3) yr. Membership | \$110.00 |
| 5. <input type="checkbox"/> | 2017 Membership (1 yr.)      | \$ 30.00 |
| 6. <input type="checkbox"/> | 2017-2019 Membership (3 yr.) | \$ 75.00 |

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 717.252.4730) 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.  
5410 Mt. Pisgah Rd.  
York, PA 17406

**Please respond by noon Mon., May 1st, 2017**  
**Please be complete in filling out registration.**

You may also pre-register by E-mail to [registrations@dvpqg.org](mailto:registrations@dvpqg.org) and then mail your payment.

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