



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

The Shady Maple Smorgasbord, featured in the Philadelphia Inquirer, is located at 129 Toddy Lane, East Earl, PA. Take the PA Turnpike to Exit 298 (old Morgantown Exit 22). From the Turnpike, follow the Morgantown exit to 2nd traffic light then take Route 23 West (becomes Main St.) for approximately 10 miles to Route 897 to Toddy Lane.

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
Tuesday, December 4th, 2012 at

Shady Maple Smorgasbord
129 Toddy Lane
East Earl, PA 17519

Meeting Agenda:

**Improving Reliability and Power Quality for
Critical Load Protection on Today's Smart Grid**

Main Speaker:

Tony Franden and Dave Kearns
S&C Electric Company

IT'S TIME TO RENEW YOUR DVPQG
MEMBERSHIP FOR 2012. 3 YEAR
RENEWAL IS THE BEST VALUE!

Improving Reliability and Power Quality for Critical Load Protection on Today's Smart Grid

Program Description:

The face of the grid is changing. Reliability, energy efficiency and power quality are becoming very important to today's critical loads. These loads are getting much larger (i.e. data centers) and protecting these multi MW loads is much more difficult. Design, site location, real-estate, infrastructure and maintenance costs (TCO) are at an all-time high, straining project budgets. The grid is also changing: wind, solar and other renewables are becoming a big part of the power feeding your loads. This presentation will explore technologies to mitigate power quality issues for critical loads and discuss methodologies to improve customer service reliability through the application of new Smart Grid systems, including:

1. Critical load protection
2. Var Compensation and Voltage Support (impacts both reliability and PQ)
3. Self-Healing distribution feeders
4. Storage Technologies

Speaker: Tony Franden, Application Director, Data Center, S&C Electric Company

Tony Franden received a BSEET in 1987. He has over 25 years of experience in the design of power systems to improve the reliability and power quality for residential, pharmaceutical, hospital and data center loads. Early in his career he supported the development and testing of intelligent control and switching systems developed by S&C to provide remote control and data acquisition, fault isolation and automatic restoration of the electrical system. Today these self – healing systems are a vital part of the smart grid. Over the past 7 years he has held a position of Data Center Application Director with expertise in critical load protection, Energy storage, Voltage support and VAR applications.

Speaker: Dave Kearns-Application Director, Smart Grid Technologies Automated Systems Division, S&C Electric Company

After obtaining a BSEE degree from the University of Kentucky, Dave's career in the utility industry now spans over 40 years having been divided between 18 years of utility engineering and engineering management followed by over 20 years on the supplier side focusing on the application of distribution automation systems. The first half of his career was spent with Kentucky Utilities in Lexington where his last responsibility was for the design, planning and construction for all distribution facilities in the Lexington District (the utilities largest single concentration of load and income).

Since leaving KU his career has focused primarily on distribution automation systems design and applications, starting at Kearney (Product Mgr for VacPac Systems) and then S&C Electric Company (in various positions), EnergyLine Systems (Regional Sales Mgr) and back to S&C as Application Director, Smart Grid Technologies when EnergyLine was subsequently absorbed by S&C. The current title reflects S&C's role as a significant supplier of Smart Grid technologies focusing on the self-healing aspect of Smart Grid. He is an active member of IEEE, having presented numerous papers on multiple applications of DA technologies and currently serves as Vice Chair of an EEI Working Group as well as on the DistribuTECH Executive Committee

Meeting Information:

**Place: Shady Maple Smorgasbord
129 Toddy Lane
East Earl, PA 17519 (new facility
is just off Rt. 23 and Rt. 897)**

**Date: Tuesday, December 4th, 2012
Time: 10:00 AM to 3:00 PM**

**Lunch Will Be Provided
Please RSVP by Fri., November 30th, 2012**

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 2013 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. & 2013 Membership | \$ 60.00 |
| 4. <input type="checkbox"/> | Meeting & (3) yr. Membership | \$105.00 |
| 5. <input type="checkbox"/> | 2013 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 717.252.4730) 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 Nov. 30th, 2012
Please be complete in filling out registration.

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