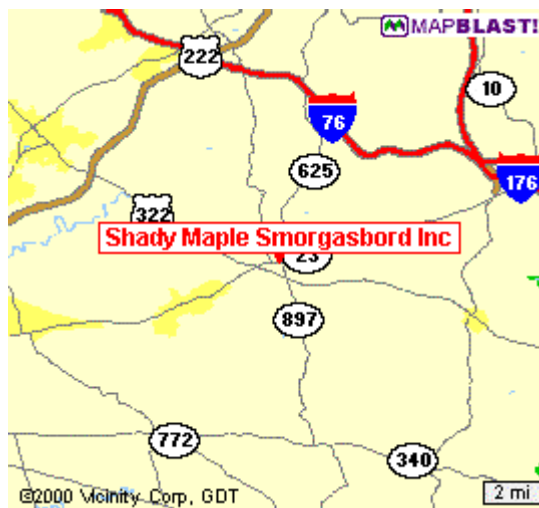




On behalf of:

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 NEW Shady Maple Smorgasbord, recently featured in the Philadelphia Inquirer, is located at 1352 Main St (PA Route 23), East Earl, PA; 8 miles west of Exit 298 (old Morgantown Exit 22) of the PA Turnpike. From the Turnpike, follow the signs to Route 23. Shady Maple is located in their new large facility on the south side of Route 23 at Route 897 behind the old restaurant.

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  
Thursday, September 29, 2005 at

**Shady Maple Smorgasbord**  
**1352 Main St. (Route 23)**  
**East Earl, PA 17519**

Meeting Agenda:

**Beyond PQ101: Topics From the  
Advanced Training Level**

Main Speaker:

**Douglas S. Dorr**  
**Director of Technology Project  
Development**  
**EPRI Solutions, Inc.**

## Beyond PQ101: Topics From the Advanced Training Level

### Program Summary:

Power quality problems and solutions range from very simple to extremely complex, as do the types of electric power variations that cause power quality problems. In addition the issues are compounded when a solution for a harmonics related problem may do very little to resolve a voltage sag problem. This course is intended to go into detail on the "how and why" equipment is upset by power variations and provide a much better understanding of the most cost effective ways to resolve system and process upsets due to PQ variations. The primary focus of the course will be in depth analysis of the powering requirements for different types of electronic equipment categories ranging from PC's to variable speed drives, to elevator controls with substantial support through real world case studies where problems have been successfully resolved. The course will draw from a wealth of over 600 successful site audits conducted over the past 15 years into virtually every power quality area of interest. Attendees are encouraged to register early and email any cases they have that are unresolved to the instructors at least two weeks in advance of the course. Four cases will be selected for discussion and possible resolution during the class using a time proven systematic investigation methodology. Attendees will also work through some pre-developed materials to better emphasize the concepts presented.

The program will provide a review of power quality variations and how those variations impact:

Commercial buildings and equipment	Injection Molding Equipment
Variable Speed Drives	Continuous and Batch Processes
Programmable Controllers	High intensity discharge lighting
Information Technology Equipment	Power conditioning equipment
CNC machines	Classroom exercises and case studies

### Speaker: Douglas S. Dorr, EPRI Solutions, Inc.

Doug is the Director of Technology Project Development – EPRI Solutions Inc. where he is responsible for assisting the EPRI Solutions engineering staff in developing technology and research projects to meet customer requirements. For the past 14 years, Mr. Dorr has specialized in testing, research and training related to distributed generation, power quality, electronic equipment testing, and stray voltage. He also designed the layout for the EPRI distributed resources and power quality test facility in Knoxville, Tennessee.

Prior to joining EPRI Solutions, Mr. Dorr directed a testing and research facility operated by BEST Power Technology, where he managed and published results of a five year North American power quality monitoring study and designed, tested and evaluated UPS and surge protective devices. He has authored over 50 technical papers and has developed workshops and short courses on power quality, distributed generation and reliable equipment design.

Mr. Dorr is the Vice Chair of the IEEE Surge Protective Devices Main Committee and also is the Chairman for the 2005 revision to the IEEE Emerald Book "Recommended Practice on Power and Grounding Electronic Equipment In 1989, Mr. Dorr received a Bachelor of Science degree in Engineering – Electrical concentration from Indiana Institute of Technology in Fort Wayne, Indiana.

### Meeting Information:

**Place: Shady Maple Smorgasbord  
1352 Main St. (Route 23)  
East Earl, PA 17519 (new facility  
is just off Rt. 23 on Rt. 897)**

**Date: Thursday, September 29, 2005  
Time: 10:00 AM to 3:00 PM**

**Lunch Will Be Provided  
Please RSVP by Monday, Sept. 26, 2005**

### 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 2006 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       | \$ 35.00 |
| 2. <input type="checkbox"/> | Meeting – Non-Member         | \$ 55.00 |
| 3. <input type="checkbox"/> | Mtg. & 2006 Membership       | \$ 60.00 |
| 4. <input type="checkbox"/> | Meeting & (3) yr. Membership | \$105.00 |
| 5. <input type="checkbox"/> | 2006 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 717.560.2743) 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 September 26, 2005  
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.