



## **2008 International Protection Testing Users Group Meeting**

InterContinental Buckhead Hotel

Atlanta, Georgia

September 22-26, 2008

Notes: All participants are expected to have the appropriate software installed on their computers before attending the Training Classes. Please make use of the Software Clinic on Sunday and Monday in order to get the necessary software installed.

There is no charge for Protection Testing Users to attend the PTUG sessions on Wednesday and Thursday. PTUG Workshops on Tuesday and Friday are priced at \$ 475 per person for one-day classes. The Monday Workshop on "Protective Relaying" is being offered at a special price of \$375 for the day.

### **Saturday, September 20, 2008**

**3:00 PM – 7:00 PM Registration Open**

### **Sunday, September 21, 2008**

**8:00 AM – 7:00 PM Registration Open**

**3:00 – 5:00 PM Protection Users Clinic**

Doble application engineers will be available in the Software Clinic to help install the latest version of ProTesT and other protection related Doble software and discuss problems on a one-on-one basis. There will be no formal presentation during the clinic.

**5:30 – 6:30 PM Newcomers Orientation**

**5:30 – 7:00 PM Doble Product Room Reception**

### **Monday, September 22, 2008**

**7:00 AM – 7:00 PM Registration Open**

**9:00 AM – 12:00 PM Protection Users Clinic**

Doble application engineers will be available in the Software Clinic to help install the latest version of ProTesT and other protection related Doble software and discuss problems on a one-on-one basis. There will be no formal presentation during the clinic.

**8AM – 12PM Optional Training Workshop: Basic Protective Relaying (\$375 per person)**

The Basic Protective Relaying Course is geared towards entry level engineers making their way into the field of relay protection and for technicians who would like to obtain the theory and practices of protective relaying. The course is intended to provide a conceptual level of knowledge without the vigorous mathematical details. The course will start with an introduction to protective relaying and then get into the following topics: differences between electro-mechanical, solid state and microprocessor relays, current and voltage transformers, basic over current relaying, distance protection, transformer protection, differential protection, basics of communication assisted protection, reclosing of circuits, remote and local backup protection

***Presented by Ed Khan and Jay Gosalia, Doble Engineering Company***

**12:00 – 1:30 PM Lunch provided to paid workshop attendees**

**1:30 – 5:00 PM Optional Training Workshop: Basic Protective Relaying continued**

**8:00 AM – 5:00 PM Meetings of the Doble Client Committees**

Please refer to the complete 2008 Conference schedule for details. Doble clients who are not Suppliers or Manufacturers are welcome to attend any of these activities throughout the week. Suppliers and Manufacturers may not attend the Client Committees due to the non-commercial nature of their proceedings.

**5:00 – 6:30 PM Doble Product Room Reception**

**Tuesday, September 23, 2008**

**7:00 AM – 7:00 PM Registration Open**

**8:00 AM – 12:00 PM Optional Training Workshop: "Introduction to ProTesT" (\$ 475 per person)**

Introductory level (no prior experience with ProTesT required)  
Power companies worldwide rely on ProTesT for automated testing of relays and power system protection schemes. With ProTesT you can perform virtually any test needed on your protection scheme, including steady-state calibration, dynamic state simulation, transient simulation and end-to-end testing. This full day workshop will include an overview of the ProTesT system – what it is and how it works. You'll become familiar with its menus and features, and how to organize your database. After this introduction each attendee will make a test plans for overcurrent, distance and other protective functions. Upon completion of this workshop attendees will have gained the ability to work with ProTesT to build test plans, as well as using existing plans to test relays.

***Presented by Calvin Vo and Scott Short, Doble Engineering***

NOTE: This is a hands-on class. Bring your own computer with ProTesT loaded in advance, stop by the PTUG Clinic on Sunday or Monday if needed. During the workshop you will be divided into groups and each group will be provided an instrument, a relay and instructors assistance.

**12:00 – 1:30 PM Lunch provided to paid workshop attendees**

- 1:30 – 5:00 PM      Optional Training Workshop: “Introduction to ProTest” continued
- 5:30 – 7:00 PM      Doble Product Room Reception

**Wednesday, September 24, 2008 – Technical Presentations Day 1**

- 7:00 AM – 7:00 PM      Registration Open
- 8:00 – 8:15 AM      Opening Remarks and Welcome  
*Jay Gosalia, Vice President of Marketing, Doble Engineering Company*
- 8:15 – 8:30 AM      Introduction to the 2008 Protection User Group Meeting  
*Ed Khan, Doble Engineering Company*
- 8:30 – 9:15 AM      Keynote Address: “Present Day Challenges faced by Utilities”  
*David Roop, Director of Transmission Operations, Dominion*
- 9:15 – 9:45 AM      How to Test Sudden Pressure and Fault Pressure Relays Without Deenergizing the Transformer to Meet NERC Requirements  
*Tom Tabaska, We-Energies*
- 9:45 – 10:15 AM      Break
- 10:15 AM – 11:15 PM      NERC Requirements for Protection Asset Maintenance  
*Phillip Winston, Manager, Protection and Control, Georgia Power Company*
- 11:15 AM – 12:00 AM      Accidental Opening of Current Transformers, Dangers, Misoperations, Considerations and Solutions – A Tester Survival Guide  
*Roy Ball, ABB*
- 12:00 – 1:30 PM      Lunch
- 1:30 – 2:30 PM      Lessons Learned from Commissioning and Analyzing Data from Transformer Differential Installation  
*David Costello, Schweitzer Engineering Laboratories, Inc.*
- 2:30 – 3:15      Minimizing Human Error When Testing  
*Tim Autrey*
- 3:15 – 3:30 PM      Break
- 3:30 – 5:30 PM      Protection, Apparatus, Communications and Control (PACC) Client Committee Session  
Protection members and Doble clients who are not Suppliers or Manufacturers are strongly encouraged to attend this meeting. Suppliers and Manufacturers are not invited due to the non-commercial nature of the proceedings.
- 6:30 – 9:30 PM      Group Social Event

## **Thursday, September 25, 2008 – Technical Presentations Day 2**

- 7:00 AM – 7:00 PM**      **Registration Open**
- 8:00 – 8:45 AM**            **Data Extraction from Multiple Data Sources Including ProTesT to Meet Regulatory Reporting Requirements**  
*Tim Dublin, We-Energies*
- 8:45 – 9:45 AM**            **Do You Remember Electromechanical Relays?**  
*Glen Goldfarb, ABB*
- 9:45 – 10:15 AM**          **Break**
- 10:15 – 11:15 AM**         **Evolution of Protective Relay Testing**  
*Craig Munro, BC Hydro*
- 11:15 AM – 12 PM**         **Two Cycles to GO AT**  
*Scott Short, Doble Engineering*
- 12:00 – 1:30 PM**          **Lunch**
- 1:30 – 2:00 PM**            **Optimization of Protective Relaying Maintenance Using Dynamic and Transient Testing**  
*Yakov Knobel, Doble Engineering*
- 2 PM – 2:30 PM**            **State Simulation and Transient Testing**  
*Fang He & Ed Khan, Doble Engineering*
- 2:30 – 3:15 PM**            **Discussion of NERC Sanctions – A Utility’s Perspective**  
*Dan Anderson, NorthEast Utilities*
- 3:15 – 3:30 PM**            **Break**
- 3:30 – 3:45 PM**            **Feedback and Topics for Protection User Group 2008**  
Group discussion
- 3:45 – 4:00 PM**            **What’s Ahead**  
*Jay Gosalia, Doble Engineering Company*

## **Friday, September 26, 2008**

- 7:00 AM – 7:00 PM**      **Registration Open**
- 8:00 AM – 12:00 PM**    **Optional Workshop: ProTesT Settings Workshop (\$475 per person)**  
Advanced level with prior experience in ProTesT required.  
This Workshop is for those individuals who would like to learn about ProTesT’s advanced Settings features. Attendees should have completed the Introduction to ProTesT class or have a working knowledge of ProTesT. You will learn how to set up macros so they can be automatically populated based on setting of the relays. With this knowledge you will have the ability to program settings into ProTesT.

You will be able to create test plans that will automatically update based on the relay settings, eliminating the need to enter the information manually.

***Presented by Ed Khan, Doble Engineering Company***

NOTE: This is a hands-on class. Bring your own computer with ProTest loaded in advance, stop by the PTUG Clinic on Sunday if needed. There will be a limited number of relays available for your use after class and during breaks.

**12:00 – 1:30 PM**

**Lunch provided to paid workshop attendees**

**1:30 – 5:00 PM**

**Optional Workshop: ProTest Settings Workshop continued**