

International Protection Testing Users Group Meeting

Loews Philadelphia Hotel
Philadelphia, Pennsylvania
September 23 – 28, 2007

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 \$175 for the day.

Saturday, September 22, 2007

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

Sunday, September 23, 2007

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

3:00 PM – 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 PM – 7:00 PM **Doble Product Room Reception**

Monday, September 24, 2007

6:30 AM – 7:30 AM **Newcomers Orientation**

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

7:00 AM – 8:00 AM ***Continental Breakfast provided to paid workshop attendees***

8:00 AM – 12:00 PM **Optional Training Workshop: Basic Protective Relaying (\$175 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
Ed Khan, Doble Engineering Company

- 12:00 PM – 1:30 PM** ***Lunch provided to paid workshop attendees***
- 1:30 PM – 5:00 PM** **Optional Training Workshop: Basic Protective Relaying continues**
- 3:00 PM – 6:00 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.
- 8:00 AM – 5:00 PM** **Meetings of the Doble Client Committees**
 Please refer to the complete 2007 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.
- 5:30 PM – 7:00 PM** **Doble Product Room Reception & Dinner**

Tuesday, September 25, 2007

- 7:00 AM – 7:00 PM** **Registration Desk Open**
- 7:00 AM – 8:00 AM** ***Continental Breakfast provided to paid workshop attendees***
- 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.
Fang He, Jun Verzosa, Murray Gillett; 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 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 PM – 1:30 PM** ***Lunch provided to paid workshop attendees***
- 1:30 PM – 5:00 PM** **Optional Training Workshop: “Introduction to ProTesT” continues**
- 5:30 PM – 7:00 PM** **Doble Product Room Reception**

Wednesday, September 26, 2007 – Technical Presentations Day 1

Note: There is no charge to attend the Wednesday & Thursday presentations

- 7:00 AM – 7:00 PM** **Registration Desk Open – *Breakfast on your own***
- 8:00 AM – 8:15 AM** **Opening Remarks and Welcome**
Jay Gosalia, Vice President of Marketing, Doble Engineering Co.
- 8:15 AM – 8:30 AM** **Introduction to the 2007 Protection User Group Meeting**
Ed Khan, Doble Engineering Company
- 8:30 AM – 8:45 AM** **Report on the Australian Protection User Group Meeting**
Murray Gillett, Doble Engineering Company
- 8:45 AM – 9:30 AM** **Keynote Address: “Remedial Action Schemes”**
Dr. Damir Novosel, InfraSource
- 9:30 AM – 10:00 AM** **Coffee Break**
- 10:00 AM – 12:00 PM** **Overview of Communication Channels used in Protection**
Roger Ray, Pulsar
- 12:00 PM – 1:30 PM** **Lunch on your own**
- 1:30 PM – 2:30 PM** **End-to-End Testing of High Speed Pilot Relaying-Tutorial and Lessons Learned**
Allen Morinec, First Energy
Tony Giuliante, ATG Consulting
- 2:30 PM – 3:15 PM** **ProTesT Settings Feature from a Corporate Level Perspective**
Phil Mann, Country Energy of Australia
- 3:15 – 4:00 PM** **Coffee Break**
- 4:00 – 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. Please contact events@doble.com for the PACC Committee Meeting agenda.
- 6:30 – 9:30 PM** **Group Social Event at Lucky Strikes Lanes**

Thursday, September 27, 2007 – Technical Presentations Day 2

- 7:00 AM – 7:00 PM** **Registration Open – *Breakfast on your own***
- 8:00 AM – 8:45 AM** **Testing the REL 670 Line Protection and Control Terminal**
Elmo Price, ABB
Jun Verzosa, Doble Engineering Company
- 8:45 AM – 9:45 AM** **Experiences of Recent End-To-End Testing at BC Hydro Using SS1 files. A live demonstration will be included**
Jatinder Parmar, BC Hydro

- 9:45 AM – 10:30 AM** *Coffee Break*
- 10:30 AM – 11:15 AM** **Testing IEC61850 Protection and Control Schemes Using Doble F6150 Power System Simulator**
Jun Verzosa, Doble Engineering Company
- 11:15 – 12:00 AM** **New Doble TransWin and State Simulation Software**
Fang He; Doble Engineering Company
- 12:00 PM – 1:30 PM** *Lunch on your own*
- 1:30 PM – 2:00 PM** **Operational Checks on Relays using Power Systems Model**
Phil Mann, Country Energy of Australia
- 2:00 PM – 2:45 PM** **Testing the MiCom P544 Transmission Line Protection Relay**
Paul Grabowski, Sam Sambasivan; AREVA
Jun Verzosa, Doble Engineering Company
- 2:45 PM – 3:15 PM** **Testing Reclosers Using Doble F5814**
Scott Short, Doble Engineering
- 3:15 PM – 3:30 PM** *Coffee Break*
- 3:30 PM – 3:45 PM** **Call for Protection Officer Nominations**
Nominations for Chairperson and Assistant Chairperson
- 3:45 PM – 4:00 PM** **Feedback and Topics for Protection User Group 2008**
Group discussion
- 4:00 PM – 4:15 PM** **What's Ahead**
Jay Gosalia, Doble Engineering Company
- 4:30 PM – 6:00 PM** **Protection Users Clinic**
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Friday, September 28, 2007

- 7:00 AM – 7:00 PM** **Registration Desk Open**
- 7:00 AM – 8:00 AM** *Continental Breakfast provided to paid workshop attendees*
- 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.

Murray Gillett, Doble Engineering Company

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

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

1:30 PM – 5:00 PM **Optional Workshop: ProTesT Settings Workshop continues**