2011 EURODOBLE COLLOQUIUM
ASSET AND MAINTENANCE MANAGEMENT
Risk Management: How to achieve greater power availability
in a climate of increasing unreliability
Stockholm, Sweden
17–19 October 2011

Now in its 17th year, the 2011 EuroDoble Colloquium is being held in Stockholm, Sweden. Stockholm, one of the most beautiful capitals in the world, is built on 14 islands connected by 57 bridges. Below is the Protection Sessions to be presented this year.

MONDAY 17TH OCTOBER

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<th>CONFERENCE ROOM 2</th>
<th>TRAINING ROOM</th>
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<tr>
<td>9:00 AM - 10:00 AM</td>
<td>Opening Address and Keynote Speaker</td>
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<td>10:00 AM – 5:00 PM</td>
<td>Asset Management</td>
<td>Protection Conference Session</td>
<td>Tutorials</td>
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<td>PDS100 User Group</td>
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OPENING ADDRESS
David Zabetakis, President; Doble

KEYNOTE ADDRESS
THE SWEDISH MODEL OF SECURE NATIONAL SUPPLY OF ELECTRICITY
Dr. Stefan Arnborg; Svenska Kraftnät, Sweden
In this opening presentation Dr. Arnborg will describe how Svenska Kraftnät has responded to a variety of risks. Some are weather related from storms, dry summers limiting use of base load water power and solar activity including the number of sun spots is estimated to peak within two years. In nuclear stations there is a need to react to cyber terrorism risk to software. Also important are delay risks to projects consequent to a very large increase in investments for upgrades in nuclear power plants, investments in wind power plants and large transmission projects. But lastly somewhere deep inside the executive mind is the knowledge that the largest risk is maybe the threat that has not yet has been identified.
PROTECTION CONFERENCE SESSION

10:00 – 10:45  Opening Remarks and Welcome  
   Ed Khan, Chairman of the Session; Doble Engineering, US

10:45 – 11:30  Automated Testing of IEC 61850 Based Substation Automation Systems  
   Richard Schimmel; KEMA, Netherlands

11:30 – 12:15  DTU PMU Laboratory Development-Testing and Validation  
   Rodrigo Garcia; Technical University of Denmark, Denmark

12:15 – 13:30  Lunch on Your Own

13:30 – 14:15  Protection Relays Applied on Wind Farms and Maintenance Practices  
   Yngve Aabos; Power Marked, Norway

14:15 – 15:00  Protection Assets – Issues with Operation and Maintenance  
   Waleed Al-Saadi, Manager Protection Testing Division  
   Mohammad Sadiq Khan, Consultant  
   SEC, Saudi Arabia

15:00 – 15:30  Break

15:30 – 16:15  Root Cause Investigation of a Transformer Surge Arrester Failure  
   John Amoo-Otoo; Consultant, USA

16:15 – 17:00  Commissioning Busbar Protections/CBF schemes in Live Substations-Carrickmines 220 kV Substation  
   Dan Catanase; ESBI, Ireland  
   Dominick Fitzsimons; ESBI, Ireland
### TUESDAY 18TH OCTOBER

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>8:30 AM – 4:00 PM</td>
<td>Testing and Maintenance</td>
<td>IEC 61850 Tutorial: IEC 61850 and its impact on both station and protection levels</td>
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<tr>
<td>4:00 PM – 5:30 PM</td>
<td>Oil Refining – How It Works <em>Kjell Sundkvist, Nynas</em></td>
<td>Asset Management Working Group: Data Management <em>(Client Members Only)</em></td>
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### WEDNESDAY 19TH OCTOBER

<table>
<thead>
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<th>Training Room</th>
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<tr>
<td>8:30 AM – 4:00 PM</td>
<td><em>Utilities Only Session:</em> Failures</td>
<td><em>Protection</em> Relay / IED Testing</td>
<td>Instrument Training</td>
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