

**TENTATIVE LIST OF
PAPERS FOR THE
2008 DOBLE CLIENT CONFERENCE**

To be Held April 6 – 11, 2008 in Boston, Massachusetts, USA

The following is a tentative list of papers for the 2008 International Doble Client Conference. If you have questions or would like additional information on any of the following subjects, please contact your Doble Client Service Engineer or Regional Sales Manager for assistance.

Note: This list is preliminary and subject to change. See the posted schedule for planned timing of the various sessions.

Arresters, Capacitors, Cables and Accessories Committee

1. Manitoba Hydro's Arrester Acceptance Test Program

Reg Gamblin, Manitoba Hydro

2. Best Practices for using Infrared Thermography for Condition Monitoring of Utility Substation Assets

John Snell, Snell Infrared

3. Testing Fuse-less Capacitor Bank with Serial Unit String Using the M4000 Test Instrument – Update of the CapBank Test Procedure

Long Pong, Doble Engineering

Lisa Vo Van, Hydro-Quebec

Asset and Maintenance Management Committee

TUTORIAL: Asset Health Indices

The Asset and Maintenance Management Committee will present this tutorial which will include a discussion of the methods being used to assign weights to equipment inputs to establish overall equipment / system / station health indexes. The tutorial may also include aging of substation assets, methods for assessing life including transformer life assessment and end of life determination. Examples of end of life teardowns, including the knowledge gained through the teardown process, will be discussed.

Proposed speakers include:

Tom Kydd, Hydro One

John Stead, Altalink

Dr. Charles Feinstein, Santa Clara University

1. Reliability-Centered Maintenance of Oil Immersed Transformers: A Work Group Approach from Several Companies

Iony Patriota de Siqueira, CHESF

2. Risk Management Associated with Power Transformers

Mark Theyeri, Substation Maintenance Consulting LLC

3. Asset Management Begins with the Assets

D. Angell, J. Gavin, T. McGrail; National Grid U.S.

4. Manhole Security: Protecting America's Critical Underground Infrastructure

Paul Joyal, National Strategies Inc.

5. Component Reliability and Damage Costs in Distribution Systems – Athens Metro Case Study

V. Papada, E. N. Dialynas; National Technical University of Athens –

School of Electrical & Computer Engineering, Athens Metro Operational Company S.A.

6. An Update on the Cigré World Wide Reliability Survey

John Skog, Maintenance and Test Engineering LLC

7. Making Sense out of the “Alphabet Soup” of Maintenance Strategies

John Skog, Maintenance and Test Engineering LLC

Bushings, Insulators and Instrument Transformers Committee

1. C1 and C2 Testing Sensitivity on a Current Transformer

Jiten Jesing, CLP Power India
GPEC Paguthan CCPP

2. Field Experience with 800 kV Gas-Insulated Free Standing Voltage Transformers

Viorika Aresteanu, Hydro Quebec
Herman Dietz, Trench Germany

3. Failure of Two Balteau 115 KV Potential Transformers Type UXT -115

Chad Bowman, Chelan Public Utility District &
Bill Fernihough, Doble Engineering

4. Failure of 800 kV Areva-Ritz Oil Current Transformers Type OSKF

Viorika Aresteanu, Hydro Quebec

5. Failures of Trench Type COTA High Voltage Bushings Manufactured in France with Copper Conductors

Danny Bates, Alabama Power
David Caverly, Trench

6. Analysis and Comparison of Failure Modes of OIP and RIP Bushings

Marcos Caddah Melo, Furnas Brazil

7. Factory Verses Field Testing of C2 for HSP Bushings

Jerry Cotter, PG&E
Matt Kennedy, Doble Engineering

Circuit Breaker Committee

1. Revision of the Doble Test Procedure for SF6 Dead Tank and Vacuum Breakers

Joe Brown, Doble Engineering

2. Detection of SF6 Circuit Breaker Problems Using the Doble Test Set

William J. Fernihough, Doble Engineering

3. Tracking Down the “Greenhouse Gas” SF6 with Infrared Thermography

Matt Knights, FLIR Systems

Possible Discussion from Daniel Duran, Puget Sound Energy

4. SF6 Gas Management

Kenji Hibi, Tokyo Electric Power Company

5. In-Service Assessment and Teardown of an ABB PME362-50-30 SF6 Filled Dead Tank Circuit Breaker

Jay Garnett, National Grid

Chuck Sweetser, Doble Engineering

6. Oil Circuit Breaker (WE 2300-GW-20000) Failure Due To High Moisture Content

Dale Rogers, Michael Smith; Progress Energy

7. ABB Type 15-VHK-500 Vacuum Breakers Manufactured Between 1989 and 1997

Robert Jensen, Salt River Project

8. Vacuum Bottle Monitoring

Jennings Technology

Alex Salinas, Southern California Edison

9. New Battery Technology

John Mandeville, American Electric Power

10. Remote Breaker Racking

Brian Anderson, Colorado Springs Utilities

11. Switching 138kV Breakers with Capacitors using Gang Operated Switches Causes Arcing

Timothy True, National Grid

Insulating Materials Committee

1. Technical Presentation on the Insulating Materials Technical Questionnaire by Doble Engineering

Matthew Kennedy, Doble Engineering

2. Field Assessment of Sulfur Hexafluoride Gas

Ian Wylie, Nick Dominelli; Powertech Labs Inc. Canada
Luke van der Zel, EPRI, USA

3. Investigation of the Dielectric Design Criteria for Pressboard/Natural Ester Interfacial Stress

Thomas Prevost, Weidmann-ACTI
Michael Franchek, Weidmann Electrical Technologies
Kevin Rapp, Cooper Power Systems

4. Update on Corrosive Sulfur Issues in Transformer

Paul Griffin, Doble Engineering

5. Stop Corrosive Sulfur: A Successful, Multi-Directional Approach

Dr. David Sundin, DSI Ventures, Inc., Brazil & USA

6. Destruction of Dibenzyl Disulfide in Transformer Oil

Scott Reed, Power Substation Services
Lance Lewand, Doble Engineering

7. Study of a Failure of a 161 kV, 50 MVA Trifasic Transformer by Deposition of Corrosive Sulfur in Mexico

Emmanuel Blanco, Engineer, Industrias IEM S.A. de C.V., Mexico

8. Identification of a Chemical Indicator of the Rupture of 1,4- β -glycosidic Bonds of Cellulose in an Oil-Impregnated Insulating Paper System

Jocelyn Jalbert, Institut de recherche d'Hydro-Quebec, Canada

9. Non-destructive and In-Situ Analysis of Cellulose Insulating Materials in Power Transformers

Gary, Stevens, Henryk Herman, Patrick Baird; GnoSys UK

10. Improving the Assessment of Transformer Condition by Enhancing Laboratory Accuracy Using Dissolved Gas in Oil Standards

Peter Lazarski, National Grid USA
Marc Cyr, Morgan Schaffer Inc., Canada

11. Use of High Temperature Insulation with Alternative Fluids

Jean-Claude Duart, Dupont Switzerland
Lisa Bates, Dupont USA

Rotating Machinery Committee

DESIGN

1. New Generation of a Class 180 (H) Electrical Insulation System for High Voltage Machines

Thomas Hillmer, Heinz Brandes; Von Roll Switzerland Ltd.
Nancy Frost, Von Roll USA, Inc.

MAINTENANCE

2. Thermal Imaging of Carbon Brushes as a Maintenance Tool

James Michalec, American Electric Power

3. Inspection, Test and Operating Issues with Collector Rings

Clyde Maughan, Maughan Engineering

TESTING AND DIAGNOSTICS

4. Electrical Testing and Tabulation of High Voltage Motors

Eddie Brynjebo, ElektroSandberg Kraft

5. Condition Assessment of RM Field Poles Using M4000 Test Set

Long Pong, Keith Hill; Doble Engineering
Hugo Simard, Alcan Power Operations
Vernon Ryman, PPL Electric Utilities

6. High Voltage Equipment Condition Assessment with EMI Diagnostics

James Timperley, Doble Engineering

7. Continuous Partial Discharge Monitoring on Motors

Igor Blokhintsev, Cal Patterson; Eaton Electric

8. Endwinding Vibration in Large Rotating Machines

Andrew Tesla, Andre Tetreault; VibroSystM

FAILURES, TROUBLES AND NONCONFORMANCES

9. Flatiron G1 Stator Winding Insulation Failure – Coil Dissection Analysis and Dielectric Test Data Correlation

Eric Eastment, Jill Smith; U. S. Bureau of Reclamation

10. Flatiron G1 Stator Winding Insulation Failure – Core Repair, Loop Testing, and Return to Service

Eric Eastment, Jill Smith; U. S. Bureau of Reclamation

11. Motoring of a 350 MW, 20 kV, Hydrogen Cooled Electrical Generator

Ing. Alberto Quintero Nieves
Ing. Sergio Arroyo Ramos

12. Spark Erosion/Vibration Sparking in Stator Windings

G. C. Stone, Iris Power Engineering

13. In-Situ Collector Connection Repair

Mike Bresney, AGT Services, Inc.

Transformers Committee

DESIGN

1. Mobile Transformer and Substation Subjects

Doble Clients, Manufacturers Panel Discussion

OPERATING USE

2. Investigation of Transformer Hydrogen Gassing

Don Platts, PPL Electric Utilities

3. Innovative Power Flow Regulating Tap Changer Control Installed on Multiple Phase Shifting Transformers

Hank Miller, John Burger; American Electric Power
Michael Thompson, Schweitzer Engineering Laboratories, Inc.

4. Resolution of a Stray Flux Problem Causing Heating of a Transformer Tank

Alberto Quintero Nieves, Comision Federal de Electricidad, Mexico

MAINTENANCE PRACTICE

5. Low Frequency Heating Field Dry-Out of a 750MVA 500kV Autotransformer

Elisa Figueroa, Hydro One
Ed teNyenhuis, ABB

LIFE CYCLE MANAGEMENT

6. Assessment of Insulation Dryness Using Dew Point Measurements of Transformers Below Freezing

Phil Prout, National Grid
Rich Simonelli, Waukesha Electric Systems, Inc.

DIAGNOSTIC METHODS

7. SFRA - AEP's Prospective

John Mandeville, AEP

8. Field Experiences with SFRA

Matt Kennedy, Doble Engineering

9. Frequency Response Analysis for Fault Detection in Power Transformers

Servando Sánchez, CFE-DCO MEXICO
Carlos Pérez, Universidad Michoacana de San Nicolás de Hidalgo (UMSNH) MEXICO
Alberto Avalos, UMSNH MEXICO

10. High Voltage Transformer Tests Uncover Manufacturing Defect Not Detected in the Factory

Robert Stephens, Exxon Mobile
Keith Hill, Doble Engineering
David Stelmach, Doble Engineering

11. Transformer Overall Test Power Factor Find Problems

Alan Wilson, Doble PowerTest

FAILURES AND TROUBLES

12. Transformer Failure and Teardown Report

Terry Troop, FirstEnergy

THE ENVIRONMENT

13. Transformer Damage Caused by an Earthquake

Atsushi Eto, Tokyo Electric Power Company