

17th Annual
Fault and Disturbance Analysis Conference

April 28-29 | Georgia Tech Global Learning Center | Atlanta

Georgia Tech Professional Education



MONDAY APRIL 28

MONDAY, APRIL 28, 2014

8:00 AM

Registration – Georgia Tech Global Learning Center

8:30 AM

Conference Opening / Welcoming Remarks

A.P. Sakis Meliopoulos, *Georgia Power Distinguished Professor, School of Electrical and Computer Engineering*

Marlin A. Browning, *Chairman, Transient Recorder Users Council*

Tribhuwan Choubey, *Vice Chairman, Transient Recorder Users Council*

MORNING SESSION:

MA (Georgia Tech Global Learning Center)

Session Chair: **Greg Bradley**

Co-Chair: **R. Jeff Ricker**

8:40 AM

Locating Faults by the Traveling Waves

They Launch

Ed Schweitzer, *Schweitzer Engineering Laboratories, Inc.*

9:20 AM

Summary Changes in 2013 IEE/IEC Dual Logo COMTRADE Standard

Jim Hackett, *Member, Relaying Communications Subcommittee, Power System Relaying Committee*

Ratan Das, *Chair, Relaying Communications Subcommittee, Power System Relaying Committee*

Amir Makki, *Vice Chair, Relaying Communications Subcommittee, Power System Relaying Committee*

10:00 AM

Break

10:20 AM

The BIG Picture – A Comprehensive Look at Automated Systems for Disturbance Analytics Using Open Source Software

Fred Elmendorf, *Grid Protection Alliance*

11:00 AM

Accuracy, Precision, Delays and Drift: How Good Is Your Time Reference?

Conrado Seibel, Benno Hornischer, Stephan Kock, *SecuControl GmbH*

11:40 AM

Best Paper Award Presentation

A.P. Sakis Meliopoulos, *Georgia Power Distinguished Professor, School of Electrical and Computer Engineering*

11:50 AM **Lunch** (on your own)

AFTERNOON SESSION:

MP (Georgia Tech Global Learning Center)

Session Chair: **Alan D. Baker**

Co-Chair: **Robert Orndorff**

12:50 PM

NERC Update

Bob Cummings, *North American Electric Reliability Corporation*

1:30 PM

Improve Transmission Fault Location and Distance Protection Using Accurate Line Parameters

Hugo E. Prado-Félix, Víctor H. Serna-Reyna, *Comisión Federal de Electricidad*

Venkat Mynam, Marcos Donolo, Armando Guzmán, *Schweitzer Engineering Laboratories, Inc.*

2:10 PM **Break**

2:30 PM

Diagnosis of Protection Misoperations Due to Mutually-Coupled Transmission Lines

Terry Bowman, *Duke Energy*

3:10 PM

Display and Discussion of Actual Fault Records Brought by Participants

Moderator: **Robert Orndorff**, *Dominion Virginia Power*

3:50 PM **Break**

4:00 PM

User Forum

Moderator: **Theo Laughner**, *Tennessee Valley Authority*

5:00 PM **Adjourn**

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TUESDAY APRIL 29

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MORNING SESSION:

TA (Georgia Tech Global Learning Center)

Session Chair: **Jim Hackett**

Co-Chair: **Andy A. Windham**

8:00 AM

The Role of IEC 61850 Reporting Faults and Disturbances Analysis

Alexander Apostolov, *OMICRON Electronics*

8:40 AM

20 Years and Counting: Deploying a System for Automated Analysis

Tomo Popovic, *XpertPower*

Mladen Kezunovic, *Texas A&M*

Donald Sevcik, **Robert Lunsford**, **Brian Clowe**,
CenterPoint Energy

9:20 AM

Comparison of Methods to Determine Transmission Line Impedance

Kyle Thomas, *Dominion Virginia Power*

10:00 AM **Break**

10:20 AM

Update on State Estimation Based Object-Oriented DSE Based Protection

A.P. Meliopoulos, **Liangyi Sun**, **Rui Fan**,

Georgia Institute of Technology

Paul Myrda, *Electric Power Research*

11:00 AM

Tutorial on Fault Locating Embedded in Line Current Differential Relays – Methods, Implementation, and Application Considerations

Omar Avendano, *Portland General Electric*

Elizabeth Godoy, *Comisión Federal de Electricidad*

Bogdan Kasztenny, **Normann Fischer**, **Héctor J. Altuve**,

Bin Le, *Schweitzer Engineering Laboratories*

11:40 AM **Lunch** (on your own)

ALTERNATE PAPERS:

Enhanced Distribution Feeder Fault Location Scheme

Iliia Voloh, *GE Digital Energy*

AFTERNOON SESSION:

TP (Georgia Tech Global Learning Center)

Session Chair: **Tony Napikoski**

Co-Chair: **Dave Bertagnolli**

12:40 PM

Computer-Aided Fault Analysis Dedicated to the Power Transmission System

Ryszard Kowalik, **Denis Kobler**, *Institute of Power Engineering Warsaw University of Technology, Systems Europe*

1:20 PM

Automatic Identification of Non-Compliant Fault Records

David Cole, **Peter Glover**, **Colm White**, *Qualitrol L.L.C.*

2:00 PM

Analysis of Cascading Operations for Adjacent Line Faults at National Grid

Y. Irene Lu, *National Grid*

2:40 PM **Break**

3:00 PM

How the Use of Non-Intrusive Sensors Facilitate NERCs Regional Reliability Standard (PRC-002)

Don Bukart, *Consolidated Edison of New York*

3:40 PM

Fault Experiences in a Transmission Line with Series Compensation

Yofre Jacome, **Francisco Torres**, *COES – Peru*

4:20 PM

Comparison of Analog Measurements Between Merging Units and Conventional Acquisition Systems

Carlos Alberto Futra, **Igor Cruz**, **Tiago Franzen**,

Rafael Rosar Matos, **Fernando Costa Neves**,

Reason Tecnologia S.A. **Gilmar Krefta**, *Companhia*

Paranaense de Energia S.A. (COPEL)

5:00 PM **Adjourn**

Why IEC61850 Process Bus Will Change Your Life?

Carlos Alberto Dutra, **Sérgio Luiz Zimath**;

Jacqueline Gisele Rolim *Reason Tecnologia S.A.*,

Universidade Federal de Santa Catarina