ABINEE TEC T&D 2002 Latin America March 20 - Wednesday

Industrial Technologies and their Contribution for Electrical Sector Auditorium J Seminar 9h00 - 13h00	
09h00	Energy Efficiency and Use of Special Steel
09h35	Impacts of Automation in Plants and Substations Márcio Schmitt, ABB – Brazil
10h10	Debate
10h30	Evolution of Underground Transmission Networks <i>Marcelo del Brenna,</i> Pirelli Cavi – Italy
11h05	Debate
11h20	Diesel/Gas Thermoelectric Plants Gilbert Amengual, General Electric – Brazil
11h55	Debate
12h10	Reliability of Electrical Networks Carlos Gama, Schneider Electric Alta Tensão – Brazil
12h45	Debate
13h00	Close
	FACTS - Technology Developments and Applications Auditorium G Panel 9h00 - 12h00

Chair: Aty Edris, EPRI - USA

- FACTS Technologies Solutions for Upgrading Transmission System Infrastructure
- Gregory Reed, Mitsubishi Electric USA • FACTS Technologies for Improved
- System Operation *Tyll Heinz*, Siemens – Germany
- FACTS Supporting Transmission System Expansion in Latin America Staffan Rudin, ABB – Brazil
- Selection of Appropriate and Costeffective Power Electronic Based Reactive Power Solutions for Power System Support John Loughran, Alstom – United Kingdom
- Generalized Switching Function Model of HVDC, SVC and TCSC Devices Luiz A. S. Pilotto, CEPEL – Brazil

FACTS

Auditorium G Technical Session 13h30 - 17h30

Chair: Edson H. Watanabe, UFRJ - Brazil

- Steady-State Analysis of the Unified Power Flow Controller (UPFC) and its Capability in Modifying the Transmittable Power USP – Brazil
- A New Control Scheme for a Static Synchronous Series Compensator Based on Instantaneous P-Q Powers Theory

U. F. Juiz de Fora – Brazil

- Selective Active Filter Applied to an Arc Furnace Adjusted to Harmonic Emission Limitation Universidad de la Republica – Uruguay and UFR] – Brazil
- A Genetic Algorithm Approach to

Coordinate FACTS Based Stabilizers CINVESTAV – Mexico

- Increasing the Capacity of Long EHV Transmission Lines
 U. F. Pernambuco – Brazil
- Engineering Aspects on Series Capacitors for EHV Networks in Brazil ABB Power Systems - Sweden and ONS - Brazil
- Thyristor Protected Series Capacitors
 Part 1: Design Aspects
 Simmers USA and Simmers Cormany
- Siemens USA and Siemens Germany Thyristor Protected Series Capacitors - Part 2: Control and Protection Concepts Siamany - Germany

Siemens – Germany

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Protection and Automation

Auditorium E Panel 9h00 - 12h00

Chair: Denis Couri, USP – Brazil

- Symmetrical Components and Protective Relaying *Fernando Calero*, Schweitzer Eng. Lab. USA
- Wide band communication for transmission line relaying *Gerhard Koch*, Siemens Germany
- Fault location in distribution feeders *E. Senger*, USP Brazil
- Optical sensors in high voltage substation *J.P.Vandeleene*, Alstom Brazil
- Fault location algorithm for high voltage transmission lines up to 230 kV Francisco Reis, SEGdB - Brazil

Protection

Auditorium E Technical Session 13h30 - 17h30

Chair: Paulo K. Maezono, Virtus - Brazil

- ANN-based Routine for Power Transformer Protection Esc. Eng. São Carlos – Brazil
- Relay and High Speed Transfer Switch Controller Testing with Advanced Digital Real Time Simulator
 Electricité de France – France
- New Grounding Transformer Protection Based on Restricted Earth Differential Principle
 UTE – Uruauav
- Digital Algorithm for the Protection of the Interconnection, Utility-industry, Operating in Co-generation Systems
 SEC do Brasil and USP – Brazil
- A New RBF Neural Network Approach Applied to Detection and Classification of Faults in Transmission Lines Esc. Eng. São Carlos – Brazil
- Behavior of the Protection System of Extra High Voltage Lines in Faults with Resistance to Ground UTE – Uruguay
- Performance of High Speed Algorithm for Distance Protection in Transmission
 Instituto Mauá de Tecnologia and USP – Brazil
- Selection of Power Fuses for Transformer Protection S&C Electric Company – USA
- Traveling Wave Fault Location for Radial MV Distribution System: New Method and Experiments Electricité de France – France
- Retrofiting the 230 kV Protection Line in Operation at the CHESF Power System Dennys Lellys, Alstom – Brazil

ABINEE TEC T&D 2002 Latin America March 20 - Wednesday

Distribution Planning

Room I Technical Session 9h00 - 17h30

Chair: Carlos Cesar Barioni Oliveira, USP – Brazil

- A Methodology for Spatial Load Forecasting Automation in Distribution Systems USP – Brazil
- Network Reconfiguration of Distribution Systems Using Improved Mixed-Integer Hybrid Differential Evolution National Chung Cheng University – Taiwan
- Planning per Electric Area Focused on the Stratification of the Market Elektro – Brazil
- Aggregated Methodology for the Evaluation of Technical Losses in Distribution USP – Brazil
- Probabilistic Methodology for Technical Losses Calculation in Distribution Networks UNIFACS, Universidade de Salvador – Brazil
- Technical and Economic Analysis for the Reduction of Losses in Distribution Systems USP and Eletropaulo – Brazil
- Cost Evaluation of the Interruption of Electrical Energy Supply USP - Brazil
- A Methodology for Investment Planning in Low Voltage Distribution Networks USP – Brazil
- Cluster Based Network Analysis of Unbalanced Three-phase Distribution Systems UNICAMP – Brazil
- Graph Chain Representation and Its Advantages for Reconfiguration of Large Distribution Systems Esc. Eng. São Carlos – Brazil
- Econometric Model for Evaluation of Power Losses in Rural Distribution Systems
 - Universidad de Los Andes Colombia
- Management System of Distribution Transformer Loading Bandeirante Energia and USP – Brazil
- Methodology for Evaluation and Measurement of the Technical,

Commercial and Total Distribution Losses

- Universidade Mackenzie Brazil
- Risk-criteria to Apply and Manage Distribution Transformers USP – Brazil
- Demand Consumption Estimation in Power Distribution Systems Based on Fuzzy Set

U. F. Espírito Santo – Brazil

- Analysis and Discussion on Energy Supply to Non-road Electric Vehicles in Brazil Universidade do Estado do Rio de
- Janeiro Brazil
- Geo-spatial Technology for Electrical Distribution Networks Planning Grupo Eletricidade de Portugal – Brazil
- Tracking of Frauds in Distribution Feeders Light, Universidade Fluminense and UFRI – Brazil
- Load Curve Estimation Using Neural Networks and Fuzzy Set Techniques Light and UFRJ – Brazil
- Operational and Economic Appraisal of Energized Shield Wire Technology
 – ESW: The Case Study of ESW Jaru CERON and ONS – Brazil
- Learning Classifiers on Guard Against Losses in Distribution Networks UNICAMP – Brazil
- Operation and Application of Step Voltage Regulators on Co-generation Systems *Cooper Power Systems and CPFL – Brazil*
- Optimal Capacitor Allocation in Electrical Distribution Systems Using a Genetic Algorithm U. F. Paraíba – Brazil
- Optimal Capacitor Placement in Radial Distribution Systems Using an Evolution Strategy

U. F. Maranhão – Brazil

- GIS-based Primary Distribution Feeder Reconfiguration
 USP – Brazil
- Let's Rethink Negative Reactance Transformer Paralleling Harlow - USA