

ABINEE TEC T&D 2002 Latin America

March 22 – Friday

Building Installation and Electrical Material of Installation

Auditorium J Seminar 9h00 - 12h45

- 09h00 **The Standard as a Tool for Consume Reduction of Electrical Energy and Safety Guarantee**
José Aquiles Baesso Grimoni, EPUSP/IEE - USP – Brazil
- 09h30 **Regulation of Building Electrical Installation in Brazil**
Marcos Aurélio Lima de Oliveira, INMETRO – Brazil
- 10h00 **IEC Standards of Installation/Actions in Europe**
Alain Lacombe – France
- 10h30 Debate
- 11h00 **Electrical Material of Installation: Standardization and Certification in Brazil**
João Cunha, ABNT - CB 03 – Brazil
Products:
 - Circuit-breakers
 - Fuses
 - Switches, Plugs and Outlets
 - Residual Current Operated Circuit-breakers
 - Overvoltage Protection Devices
- 12h30 Debate
- 12h45 Close

Electromagnetic Compatibility

Auditorium J Seminar 14h30 - 17h00

- 14h30 **Concepts and Standardization in Brazil**
Duilio Moreira Leite, ABNT - CB 03 – Brazil
- 15h30 **Standardization and Legislation in Europe**
Jacques Delaballe – Secretary of IEC - SC77B
- 16h30 Debate
- 17h00 Close

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Power Quality

Auditorium G Panel 9h00 - 12h00

Chair: Mark F. McGranaghan, Eletrotek Concepts – USA

- An approach for power quality standards for distribution systems
M. F. McGranaghan, Eletrotek Concepts – USA
- Advanced applications for substation power quality monitoring
M. F. McGranaghan, Eletrotek Concepts – USA
- Results of distribution power quality benchmarking by Eletropaulo
R. Cavaretti, Eletropaulo – Brazil
- Power quality issues at the transmission systems interface points
D. O. Brasil, ONS – Brazil
- A new approach to addressing voltage sag issues
D. Muller, Eletrotek Concepts – USA

Power Quality

Auditorium G Technical Session 13h30 - 17h30

Chair: Nelson Kagan, USP – Brazil

- A System for the Evaluation of Continuity Indicators in Electric Energy Distribution
USP – Brazil
- Regulation of the Quality of Electrical Power Supplied by Solar Home Systems
Universidade de Salvador – Brazil
- Quality Evaluation of the Electrical Energy Supply by the Sampling Analysis of Individual Interruptions
USP, Fundação SEADE and CSPE – Brazil
- Quality Control of the Electrical Energy Supply through Network Families
USP, Fundação SEADE, CSPE and EFEI – Brazil
- Power Quality Assessment at Sensitive Loads
Elektro – Brazil
- São Paulo State Regulatory Experience in the Evaluation of Voltage Level
USP and CSPE – Brazil
- Calculation of Marginal Costs in Distribution Networks: Present Tendencies and Critical Analysis
USP – Brazil
- Evaluating ASD Performance Under Short Duration Voltage Variation
GPEC – Brazil
- Modal Analysis of Industrial System Harmonics Using the S-domain Approach
CEPEL – Brazil
- Behavior of Electronic Reactive Meters and Power Factor Meters under Non-sinusoidal Waveforms and Unbalanced Tree Phase Systems
UTE - Uruguay

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Energy Commercialization

Auditorium E Panel 9h00 - 12h00

Chair: *Alcides C. Oliveira*, Duke - Brazil

Moderator: *Dorel Ramos*, USP – Brazil

Presentation

- Opportunities in the Free Electricity Market
Alcides C. Oliveira, Duke - Brazil
- Risk Control in Electric Energy Markets: Portfolio Optimization of Physical and Financial Assets and Gas Contract Management
Sergio Granville, PSR - Brazil
- The Role of Energy Brokers in the New Business
Walfrido V. Ávila, ABRACEEL - Brazil
- The California Crisis and the Enron Debacle. Will Deregulation Survive?
Luis Maurer, Consultant - USA
- Energy Trading in the New Environment. Impact in the Agents and Consumers
José Antonio Sorge, CPFL - Brazil

Transmission Planing

Auditorium E Technical Session 13h30 - 17h30

Chair: *Celso Cerchiari*, CTEEP – Brazil

- Reliability Analysis of the Venezuelan Metropolitan Area Using Monte Carlo Techniques
Universidad Simon Bolivar - Venezuela
- Transmission Expansion Planning: A Classification of Publications and Models
ISA - Colombia
- Comparative Study Between Electricity Transmission and Natural Gas Transport Structures
USP and U. F. Goiás – Brazil
- Transmission Congestion Prices in Brazilian Electricity System: Relationship with Expansion and Costs Recovery Rationale
ONS – Brazil
- Recognition of Environmental Impact in the Transmission of Electrical Power
Universidade de Pernambuco – Brazil

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Electromagnetic Transients Lighting

Room I Technical Session 9h00 - 12h00

Chair: Sandoval Carneiro, UFRJ – Brazil

- Indirect Analysis Performance
Transmission Line Models
UNICAMP, Esc. Eng. São Carlos and UFRJ – Brazil
- Fast Transients Analysis of Non Uniform Multiconductor
Transmission Lines
CINVESTAV – Mexico
- Analysis of Harmonic
Overvoltages Due to Transformer
Energization During System
Restoration
Laboratoire d'Electrotechnique de Grenoble – France and Sharif University of Technology - Iran
- Fault Location in Transmission
Line Using Two-port Representation
USP – Brazil
- A SPICE Calculation of Lightning
Induced Voltage on Power
Transmission Lines
UFMG – Brazil
- The Real Value of a Grounding
Grid Impedance in High Voltage
Substations
Elektrovojjvodina and Faculty of Engineering - Yugoslavia
- Lightning Induced Overvoltage:
How Return Current Model
Influences It
UFMG – Brazil
- Calculation of Transient Voltages
in Transmission Lines Caused by
Lightning-combined
Electromagnetic Modeling for
Tower, Grounding and Aerial
Cables
UFMG – Brazil
- Lightning Overvoltage on Low
Voltage Distribution Lines:
Multiplexed Versus Conventional
Configuration
UFMG – Brazil
- Modal Analysis of Electromagnetic
Transients in AC Networks Having
Long Transmission Lines
UFRJ and CEPEL – Brazil

Transmission Lines

Room I Technical Session 13h30 - 17h30

Chair: Alexandre Piantini, IEE - USP – Brazil

- **Modeling, Simulation and Optimization of Transmission Lines. Applicability and Limitations of Some Used Procedures**
C. Portela, UFRJ – Brazil
- **Aluminum Conductors Alloy for Electrical Transmission and Distribution Lines**
Sidnei Ueda, Furukawa – Brazil
- **Transmission Lines Maintenance Criteria**
Yutaka Nagata, Fujikura – Japan

Presentations

- On the Modeling of Corona on High Voltage Power Lines
Kuwait University – Kuwait
- The Capacitive Coupling Between EHV Lines and Nearby Pipelines
Kuwait University – Kuwait
- A Vision of Design and Construction of Underground Transmission Lines
Consultants - Brazil