

ABINEE TEC T&D 2002 Latin America

March 21 - Thursday

Industrial Technologies and their Contribution for Electrical Sector

Auditorium J Seminar 9h00 - 12h20

- 09h00 **Innovative Solutions for Substations**
Alexandre Arcon, ABB - Brazil
- 09h35 Debate
- 09h50 **Protection of Transmission Lines with Compensation**
Gustavo Brunello, General Electric - Brazil
- 10h25 Debate
- 10h40 **Auditing Systems in Electrical Installations**
Elio Celso Ortiz, Schneider Electric Alta Tensão - Brazil
- 11h15 Debate
- 11h30 **New Technologies for Digitalization of Substations**
Ricardo Hering, Siemens - Brazil
- 12h05 Debate
- 12h20 Close

Power Quality

Auditorium J Tutorial Course 13h30 - 17h30

Coordinator: Mark F. McGranaghan, Eletrotek Concepts - USA

HVDC

Auditorium G Panel/Technical Session 9h00 - 12h00

Chair: Gunnar Flisberg, ABB - Sweden

- Operational Tests of Garabi II HVDC Thyristor Valves
B. Sheng, ABB Power Systems - Sweden
- Experience with the Application of Active AC and DC Filter in HVDC Systems
M. Pereira and G. Wild, Siemens - Germany
- HVDC Light-TM and Development of Voltage Source Converters
K. Eriksson, ABB Power Systems - Sweden
- Recent Classic HVDC Development
G. Flisberg and L. Carlsson, ABB Power Systems - Sweden
- Back to Back HVDC - Helping to Form a National Grid in India
John Loughram, Alstom - United Kingdom

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Generation

Auditorium G Technical Session 13h30 - 17h30

Chair: *Roberto Zilles, USP – Brazil*

▪ **Wind power applications in Brazil**

Jorge Lima, CEPEL – Brazil

Presentation

- Wind Potential on the Coast of the State of Pará, Brazil
Eletronorte – Brazil
- Impacts in Distribution Grids Due to the Connection of Distributed Wind Generation
U. F. Pará – Brazil
- Distributed Power Generation with Photo-voltaic Systems at USP
IEE - USP – Brazil
- Fuel Cell Plant - A Proposed Analysis For Economical Feasibility of Implantation
Universidade Mackenzie – Brazil
- Why Do We Need Rules and Standards to Implement Grid-connected Distributed PV Systems in Brazil?
IEE - USP – Brazil

Distributed Resources / Energy Storage

Auditorium E Panel 9h00 - 12h00

Chair: *Sergio Fronterotta, Universidade Mackenzie – Brazil*

- Wind Power Generation
J. Usaola Carcia, Universidad Carlos III, Spain
- Interconnection Issues for Distributed Generations
Mark F. McGranaghan, Eletrotek Concepts – USA
- Fuel Cell Technology
J. L. Pimenta, Consultant – Brazil
- Energy Storage
Paulo Ribeiro, Calvin College – USA
- Distributed Resources
Daniel Costabile, Alstom – Brazil

Electrical Machinery / Equipment

Auditorium E Technical Session 13h30 - 17h30

Chair: *Ivan Camargo, ANEEL, Brazil*

- *Observer-Based Sliding Mode Block Control of DC Motors with Controlled Excitation*
CINVESTAV – Mexico and University of East London – United Kingdom
- *Checking in the Field the Precision Class of Inductive Voltage Transformers*
USP – Brazil
- *State of the Art of Silicone Rubber Materials for Molding High Voltage Transmission and Distribution Insulators*
Dow Corning – USA

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Information Management Systems

Room I Technical Session 9h00 - 12h00

Chair: Luiz Carlos Magrini, Contrel - Brazil

▪ **XML - "The Extensible Markup Language"**

D. G. Teiveles, CONSIST - Brazil

Presentations

- Decision Support System in Power Energy Quality Indicators
USP and Eletropaulo - Brazil
- The Knowledge Management Strategic Model and Its Practical Implantation at the I.T. Department of Eletrobrás
Eletrobrás and UFRJ - Brazil
- Information System for Management of Generating Plants and Transmission Lines
USP - Brazil
- Electrical Energy Management Model
Universidade de Brasília and Brazilian Army - Brazil
- Correlation Between Meteorological Conditions and Subtransmission and Distribution Networks Faults
USP and Eletropaulo - Brazil

Power Systems Studies

Room I Technical Session 13h30 - 17h30

Chair: Ariovaldo Garcia, UNICAMP - Brazil

- New Versions of Interior Point Methods Applied to the Optimal Power Flow Problem
U. F. Santa Catarina - Brazil
- An Application to the Venezuelan System of the BCU Method for Transient Stability Analysis
Universidad Simon Bolivar and AES-ELECAR - Venezuela
- Voltage Control and Stability in Electrical Energy Distribution Networks
U. F. Maranhão and Univ. Católica do Rio de Janeiro - Brazil
- Effect of LTC Transformers in the Maximum Loadability of Electric Power Systems
Univ. Católica de Pelotas and U. F. Santa Catarina - Brazil
- Continuation Fast Decoupled Power Flow with Secant Predictor
Universidade Estadual Paulista and UNICAMP - Brazil
- Load Flow Using the Graph Chain Representation
Esc. Eng. São Carlos - Brazil
- An Efficient Method for the Calculation of the Power Systems Security Margins to Voltage Collapse
UNICAMP - Brazil
- A Critical Evaluation of a Maximum Loading Point Estimation Method for Power System Voltage Stability Studies
UNICAMP - Brazil
- Fast Decoupled Load Flow with Optimal Axes Rotation
U. F. Rio Grande do Norte - Brazil
- Comparisons Between New Method and Jacobian Matrix Method for Calculating Active Incremental Transmission Losses
Laboratoire d'Electronique - France
- Derivation of Calculation Formulas on Reactive Incremental Transmission Losses with Jacobian Matrix Method
Laboratoire d'Electronique - France