

VICE CHAIR'S REPORT – SPRING '04 – SAN DIEGO, CA

5.0 Vice Chair's Report – D. J. Fallon

The following items report on activities of PES Committees on which the Vice Chair serves as Committee representative. There has been no general meeting since our Pittsburgh Fall 2003 meeting but the Technical Committee Program Chairs (TCPC's) met in Chicago on January 26, 2004 to plan and schedule the technical program for the general meeting in Denver this summer.

5.1 PES General Meeting in Denver - Technical Session Tracks

The IEEE Power Engineering Society (PES) 2004 General Meeting will be held at the Adam's Mark Hotel in Denver CO from June 6-10th, 2004. This power engineering conference will bring together practicing power engineering engineers and academics from around the world. The aim of the conference is to provide, share, and discuss various issues and developments in the field of electrical power engineering.

The theme of the meeting is "**Is It Easy Being Green?**" The tracks for the technical sessions are as follows:

TRACK 1: Active Load Participation and Its Impact on Markets

- *Conservation and Efficiency Measures*—Including load reduction/control to avert less environmentally friendly generation
- *Energy Efficient T&D Systems* — T&D companies have a vested interest in lowering their own usage of electricity; manufacturers are offering energy efficient equipment, IT
- *Substation Technologies to Improve System Efficiency* — includes FACTS, automation, IT, advanced monitoring and control, voltage control, etc.

TRACK 2: Environmental Dimensions

- *Improved Environmental Impact of Existing Assets*-can include technologies used for aesthetic improvements, noise mitigation, spill control/prevention, land remediation, waste management, EMF, community acceptance, etc.
- *Innovative generation and transmission controls and analysis techniques for improved power system dynamic performance and efficiency*
- *The Role of Distributed Generation on Reducing the Environmental Impact*
- *End of Life Issues for Electrical Equipment* – death after life topic
- *Role of the Power System Engineer* –
 - Substation Design for Environmental Acceptance
 - EMC and Its Applications in Communications
 - Environment Friendly Cable
 - EPD, Environmental Product Declarations
- *ISO 14000* – It's Impact on Design and Construction of Power Facilities
- *Regulatory Initiatives and International Issues*
- *Role of Renewable Energy Sources*

TRACK 3: Integration of Dispersed Generation

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- *Hydropower* – the original renewable and green power source
- *Penetration of Dispersed Technologies in the Power System* – Internal/external security, reliability, power
- *Dispersed Generation and Interconnection*

TRACK 4: Sustainability and Global Climate Change

- *Developing a Sustainable Energy and Power System*
- *Policy Formulation and Incentives*
- *Sustainable Energy Development and Supply* - Continuing Education and Curricular Changes
- *Impact of Megagrids*

5.2 Technical Paper Sessions

5.2.1 Technical Paper Session at the 2004 General Meeting

Two technical sessions sponsored by the Transformers Committee are planned with 2 Proceedings papers and 6 Transactions papers to be presented during the IEEE/PES 2004 General Meeting in Denver. The sessions are presently scheduled as follows:

Transformers I - Loss Performance and Thermal Evaluation

Wednesday, 9 June 9:00 AM-12:00 PM - (aligned to Track 1 - Active Load Participation and Its Impact on Markets {subtrack Energy Efficient T&D Systems})

- “The Measurement and Evaluation of Distribution Transformer Losses Under Non-Linear Loading” by Damjanovic and Ferguson
- “Improved Insert Geometry for Reducing Tank Wall Losses in Pad-Mounted Transformers” by Olivares, Escarela-Perez, Kulkarni, de Leon, Melgoza and Hernandez
- “Dynamic Thermal Modeling of Power Transformers” by Susa, Lehtonen and Nordman
- “Power Transformer Temperature Evaluation for Overloading Conditions” by Jardini, Brittes, Magrini, Bini and Yasuoka

Transformers II - Modeling, System Interaction, and Diagnostics

Wednesday, 9 June 2:00 PM-5:00 PM - (aligned to Track 2 - Environmental Dimensions {subtrack Innovative generation and transmission controls and analysis techniques for improved power system dynamic performance and efficiency})

- “Frequency Dependent Modeling of Power Transformers with Ungrounded Windings” by Gustavsen
- “Wide Band Modeling of Power Transformers” by Gustavsen
- “Development of a DC Current-Blocking Device for Transformer Neutrals” by Bolduc, Granger, Pare, Saintonge and Brophy
- “An Attempt to Correlate Time and Frequency Domain Polarisation Measurements for the Insulation Diagnosis of Power Transformers” by Saha, Purkait and Muller

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5.2.2 Technical Paper Session(s) at the 2005 General Meeting

Planning is underway for the technical program for the 2005 General Meeting in San Francisco (June 12-16, 2005). When available, suggested themes and topics will be posted on the PES website, http://www.ieee.org/portal/index.jsp?pageID=pes_home. This site is also accessible through our website. Paper submission can be expected to open in October.

5.3 Committee Organization and Procedures Manual

The Transformers Committee O&P Manual revision is currently in process.

5.4 Power & Energy Magazine Submission

The Transformers Committee is scheduled to contribute an article to Power & Energy magazine for publication in June 2004. The format and content is at the discretion of the Committee. The deadline for submission is probably fast approaching, and our scheduled submission is not yet planned. Information of submittals can be found on the PES website. The Vice Chair will be looking for submittal ideas at the Administrative SC meeting.

Respectfully submitted, D. J. Fallon, Vice Chair