

VICE CHAIR'S REPORT – FALL '05 – MEMPHIS, TN

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

4.1 PES Technical Council Committees

The following items report on activities of Power Engineering Society (PES) Committees on which the Vice Chair serves as Committee representative. These meetings were held at the 2005 PES General Meeting in San Francisco CA on June 12-16. Ken Hanus, Don Fallon, Tom Prevost, Bill Chiu, and Jin Sim represented the Committee at these meetings.

4.1.1 Technical Sessions Committee

Plans for the 2005 Transmission & Distribution Conference & Exposition (TDCE), October 9-13, 2005, in New Orleans were reviewed. The theme was to be "Go with the Flow and Join the Parade of Technology. Unfortunately, as we are all aware, the devastation of Hurricane Katrina resulted in tragic loss of life and property in the New Orleans region, and the 2005 TDCE has been postponed until Spring of 2006. Although efforts will be made to re-schedule in New Orleans, the location and dates of the Conference have not yet been set. Announcements are expected shortly.

A review was made of plans for the 2006 PES General Meeting in Montreal, Quebec Canada, scheduled for June 18-22. The theme is "Innovation and Reinvestment in Power Infrastructure". The listing of Preferential Topics for this meeting can be found on the PES website (<http://www.ieee.org/portal/site/pes/>).

Additional items of interest discussed during the Technical Sessions Committee included

- questions on whether paper sessions are addressing the needs of attendees, as attendance is sometimes limited, with suggestion that preferred topic areas bubble up from the Technical Committees to promote more interest
- need to provide the same usefulness found in Technical Committee meetings in the General Meeting sessions and Conferences

All Technical Committees are urged to provide suggestions for improvement in content and interest

4.1.2 Organization and Procedures Committee

The Technical Council O&P Manual was modified last year for clarification of procedures and to bring it more in line with current practice. The updates included changes in the following areas:

- References to ballots now indicate the electronic balloting process
- Reflection of the change from two PES General Meetings per year to the present schedule of one

VICE CHAIR'S REPORT – FALL '05 – MEMPHIS, TN

- Updates to include IEEE-SA open ballot process and indication that IEEE Standards meetings are open to all, regardless of membership status

Individual Technical Committee O&P Manuals are to be generally formatted similarly to the Technical Council O&P Manual.

4.2 Technical Paper Sessions

4.2.1 Technical Paper Sessions at the 2005 PES General Meeting

The Transformers Committee sponsored one technical session at the IEEE/PES 2005 General Meeting in San Francisco. The session included the following papers:

Transformers I - Condition Assessment & Analysis Methodologies (paper session)

Wednesday, 15 June 8:00 AM-11:00 AM (aligned to Track 1 - Understanding and Responding to System-Wide Events Track)

- “Transfer Function Analysis Using STFT for Improvement of the Fault Detection Sensitivity in Transformer Impulse Test” (05GM0230) by E. AL-AMMAR and G. KARADY
- “Transformer Test to Calculate Z₀ for Interconnected Windings Transformers Using Symmetrical Sequence Components” (05GM0335) by G. ROSSELLI
- “Diagnosis of Power Transformers Using Modified Self Organizing Map” (05GM0434) by A. OZDEMIR, C. SINGH, J. LIM, J. LEE, P. JI and S. KIM
- “A Transformer Condition Assessment Framework Based On Data Mining” (05GM0250) by J. YUAN, L. WU, X. LI and Y. ZHU
- “Impact of the Condition of Oil on the Polarisation based Diagnostics for Assessing the Condition of Transformers Insulation” (05GM0426) by P. PURKAIT and T. SAHA

4.2.2 Technical Papers for the 2005 TDCE

The Transformers Committee reviewed and approved eighteen technical papers for the 2005 Transmission & Distribution Conference & Exposition, originally planned for October 9-13 in New Orleans, LA. As indicated above that Conference was postponed due to Hurricane Katrina, and will be re-scheduled for the Spring of 2006. In addition to the Conference planned presentation of Proceedings Papers in a Poster Session, two Panel Sessions have been arranged. Transformers Committee members and participants are authors for papers in all three sessions. The Papers presently planned for this Conference include:

Poster Session Papers:

- Interoperability between Non Conventional Instrument Transformers and Intelligent Electronic Devices
- Factors in Choosing Transformer Paralleling Methods
- Measured Variability Of Performance Parameters

VICE CHAIR'S REPORT – FALL '05 – MEMPHIS, TN

- Accurate Solution of Ferroresonance for a Transformer interacting with Power Line
- Condition assessment of Instrument Transformer by Partial Discharge Analysis: a Comprehensive Approach

“Transformer Application Issues” Panel Session Papers:

- Surge Protective Properties Of Medium Voltage Underground Cable
- Prediction of Transient Transfer Functions at Cable-Transformer Interfaces
- Implementation of a Predictive Maintenance System
- Simulation-Based 3D analysis for Performance Verification of Large Power Transformers
- The Field Test and Dissection of a New Type of Composite Insulated Dry Current Transformer Made of Synthetic Materials

“Progress Report on Natural Ester Fluids for Distribution and Power Transformers” Panel Session Papers:

- Tapchangers for De-energized Operation in Natural Ester Fluid, Mineral Oil, and Silicone
- Progress Report on Natural Esters for Distribution and Power Transformers
- Some Considerations for New and Retrofil Applications of Natural Ester Dielectric Fluids in Medium and Large Power Transformers
- Design and Test Experience With Natural Ester Fluid For Power Transformers
- Natural Ester Dielectric Fluid Development
- Dielectric Properties of Natural Esters and their Influence on Transformer Insulation System Design and Performance
- Distribution Utility Experience with Natural Ester Coolants
- Requirements and Expectations of Natural Ester Fluids for Application in Power Transformers

4.2.3 Technical Paper Session(s) at the 2006 General Meeting

The Call for Papers for the 2006 General Meeting in Montreal (June 18-22, 2006) can be found on the PES web site (<http://www.ieee.org/portal/site/pes/>). The paper submission website is scheduled to be open to Authors on October 21, 2005, and the closing date for submittals of papers is December 15, 2005.

4.3 Committee Organization and Procedures Manual

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

4.4 Power & Energy Magazine Submission

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The Transformers Committee is overdue in the schedule to contribute an article to Power & Energy magazine. The format and content is at the discretion of the Committee. The Vice Chair will be looking for volunteer authors and coordinating a submittal to the P&E magazine prior to our next meeting.

Respectfully submitted, D. J. Fallon, Vice Chair