4.0 Vice Chair's Report – T. A. Prevost

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 Memphis Fall 2005 meeting.

4.1 PES General Meeting in Montreal - Technical Session Tracks

The Power Engineering Society announced that its 2006 General Meeting is scheduled for June 18-22, 2006 at the Palais des congrès in Montréal, Québec Canada. The conference, with its theme *Innovation and Reinvestment in Power Infrastructure*, will provide an international forum to address policy, infrastructure and workforce issues.

Technical Program
Technical panel and paper sessions are scheduled each day of the conference, from Monday, 19 June through Thursday, 22 June.

The theme of the meeting is:
Innovation and Reinvestment in Power Infrastructure
The preferential topics are:
- ***Critical Infrastructure of the Power System***
- ***Integrating New Sources of Energy in the Power System***
- ***Design for Stability***.

4.2 Technical Paper Sessions

4.2.1 Technical Paper Session at the 2006 General Meeting

Two technical sessions sponsored by the Transformers Committee are planned with 10 Proceedings papers to be presented during the IEEE/PES 2006 General Meeting in Montreal. The session is presently scheduled as follows:

TRANSFORMERS I - ANALYSIS OF PERFORMANCE CHARACTERISTICS (paper session)
Wednesday, June 21, 2006 9:00 AM-12:00 PM
Sponsored By: Transformers Committee
Track: Topic 1: Critical Infrastructure of the Power System Topic
Chair 1: Thomas A. Prevost
Chair 1 Affiliation: EHV Weidmann Industries Inc.

PAPERS AND AUTHORS:
* 06GM0103, Estimation of Transformer Saturation Characteristics from Inrush Current Waveforms
Transaction Number: TPWRD-00613-2004
S. ABDULSALAM, University of Alberta
W. XU, University of Alberta
W. NEVES, Universidade Federal de Campina Grande (UFCG),
X. LIU, University of Arkansas at Little Rock

* 06GM0220, Calculation of Transformer Saturated Leakage Inductance based on Field Test Data
Y. NAKACHI, Chubu Electric Power Co., Inc.
R. HATANO, Chubu Electric Power Co., Inc.
T. MATSUBARA, Chubu Electric Power Co., Inc.
Y. UEMURA, Toshiba Corporation
* 06GM1289, Performance of Various Magnetic Core Models in Comparison with the Laboratory Test Results of a Ferroresonance Test on a 33 kV Voltage Transformer
A. REZAEI ZARE, University of Tehran
H. MOHSENI, University of Tehran
M. SANAYE PASAND, University of Tehran
S. FARHANGI, University of Tehran
R. IRAVANI, University of Toronto
* 06GM1148, SIMULATION MODEL FOR ASSESSING TRANSIENT PERFORMANCE OF CAPACITIVE VOLTAGE TRANSFORMERS
I. SULE, Federal polytechnic, Mubi
U. ALIYU, Abubakar Tafawa Balewa University
G. VENAYAGAMOORTHY, University of Missouri-Rolla
* 06GM0628, Effects of Harmonics and Compact Design to the Rating of Low Voltage Transformers
D. BRECHTKEN, University of Applied Sciences Trier
S. PEIFFERS, University of Applied Sciences FH Trier
* 06GM0337, A Novel Power Quality Conditioner Applied to High Voltage Power Systems
C. ZHANG, Huazhong University of science and technology
Q. Chen, Huazhong University of science and technology
D. Li, Huazhong University of science and technology
Y. zhao, Huazhong University of science and technology

TRANSFORMERS II - CONDITION ASSESSMENT DIAGNOSTICS (paper session)
Wednesday, June 21, 2006 2:00 PM-4:00 PM
Sponsored By: Transformers Committee
Track: Topic 1: Critical Infrastructure of the Power System Topic
Chair 1: Thomas A. Prevost
Chair 1 Affiliation: EHV Weidmann Industries Inc.

PAPERS AND AUTHORS:
* 06GM0630, A Hybrid Tool for Detection of Incipient Faults in Transformers Based on the Dissolved Gas Analysis of Insulating Oil
Transaction Number: TPWRD-00390-2004.R1
D. MORAIS, Federal University of Santa Catarina
J. ROLIM, Federal University of Santa Catarina

* 06GM0546, Localization of Partial Discharges Using UHF Sensors in Power Transformers
Z. SHEN, University of Waterloo
E. EL-SAADANY, University of Waterloo
* 06GM0851, Study of Propagation Effects of Wideband Radiated RF Signals from PD Activity
I. PORTUGUES, Institute for Energy and Environment, University of Strathclyde
P. MOORE, Institute for Energy and Environment, University of Strathclyde
* 06GM0303, Impact of Temperature on the Frequency Domain Dielectric Spectroscopy for the Diagnosis of Power Transformer Insulation
J. YEW, University of Queensland
T. SAHA, University of Queensland
A. THOMAS, University of Queensland

4.2.2 2006 IEEE/PES T&D CONFERENCE AND EXPOSITION

The Transformers Committee reviewed and approved eighteen technical papers for the Transmission & Distribution Conference & Exposition, originally planned for October 9-13, 2005 in New Orleans, LA. This conference has been re-scheduled. It will be held at the Dallas Convention Center in Dallas, Texas from May 21-24, 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
- 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

4.3 Committee Organization and Procedures Manual

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

4.4 Power & Energy Magazine Submission

The Transformers Committee needs to prepare an article for P&E magazine. The Vice-Chair will be looking for topics and volunteers to prepare this article. If you have any thoughts please contact the Vice-Chair.

Respectfully submitted,
T. A. Prevost
Vice Chairman