

# IEEE Power Engineering Society Entity Annual Report

2014

**Entity: Power System Operations Committee**

**Chair: Antonio J. Conejo**

**Vice-Chair: Hong Chen**

**Secretary: Luiz Barroso**

## **1. Significant Accomplishments:**

Tutorials and Panels Summary. PSOC sponsors four subcommittees:

1. System Operations and Control Centers
2. Transmission Security
3. Operational Methods and
4. Electricity Market Economics.

Each of these subcommittees organizes panel sessions at the General Meeting on relevant topics. In addition, PSOC sponsors poster and paper sessions. At the GM 2014, PSOC and its subcommittees conducted nine panel sessions, four transaction paper sessions, four paper forum sessions, and one poster session. In addition, PSOC also selected eleven papers to the four best paper sessions. PES selected four best-of-best papers out of those presented in these four paper sessions. Among these four best-of-best papers, two papers were sponsored by PSOC.

Other Committee and Subcommittee Activities. At the GM 2014, PSOC conducted a meeting of the Administrative Subcommittee and a meeting of the Main Committee. Each of the subcommittees met during GM 2014 to conduct its business and plan future work. Four task forces – Market Efficiency, State Estimation Concepts and Terminology, Bulk Power System Operations with Variable Generation, and Natural Disaster Preparation and Recovery – and one working group – State Estimation – met at GM 2014 as well as all of the subcommittees.

## **2. Benefits to Industry and PES Members from the Committee Work:**

By presenting and discussing the operational aspects of power system technologies and operations, PSOC activities help guide research and development activities. In addition, PSOC shares information about operations experiences under both routine and extreme conditions to provide feedback to the industry regarding the effectiveness of new techniques and methodologies.

## **3. Benefits to Volunteer Participants from the Committee Work:**

Through their contacts with other participants, volunteer participants in PSOC work gain knowledge and experience they can apply in their jobs.

#### **4. Recognition of Outstanding Performance:**

PSOC recognizes the contribution of its members. In 2014, Prof. Antonio J. Conejo received a plaque recognizing his service to the PSOC since 2008:



#### **5. Coordination with Other Entities (PES Committees, CIGRE, standards, etc.):**

PSOC coordinates with several other PES committees, notably PSACE and PDSP. Coordination sometimes includes joint sponsorship of GM sessions. PSOC has supported the work of several ad hoc task forces by providing operational perspectives via a liaison.

#### **6. New Technologies of Interest to the Committee:**

The major new technologies of interest to PSOC include the impact on power system operations of significant penetration of stochastic generation resources, and the operational issues and opportunities related to smart-grid technologies.

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**7. Significant Plans for the Next Period:**

PSOC will continue its information sharing activities at GM 2015.

The leadership of the committee will change from January 2015, with Hong Chen becoming the new PSOC chair, Luiz Barroso the new PSOC vice chair and Jianhui Wang the new PSOC secretary.

In November 7, during the PES Technical Council Planning Retreat, there were suggested committee scope changes affecting PSO. For the time being indications are that the Power Systems Planning and Implementation Committee and the Economics activities of PSACE will be folded in PSO, leading to a new committee named Power Systems Operations, Planning and Economics, under the leadership of PSO. These activities will be further developed during 2015.

*AJC. —*

**Submitted by: Antonio J. Conejo, PSO Chair**

**Date: December 20, 2014**