

IEEE Technical Committee on Power Generation

TC Chair: Eugenio Schuster schuster@lehigh.edu

The IEEE-CSS Technical Committee (TC) on Power Generation addresses all aspects of modeling, simulation, control and optimization of energy generation and energy utilization systems, and is organized around four thrusts: Nuclear Energy Generation, Fossil Energy Generation, Renewable Energy Generation and Efficient Energy Utilization. We summarize below our activity during the second semester of 2013.

LEADERSHIP GROUP

The Leadership Group is now composed by:

Nuclear Energy Generation: Alfredo Pironti, Eugenio Schuster, Michael Walker

Fossil Energy Generation: Joseph Bentsman, Jihong Wang, Kwang Y. Lee

Renewable Energy Generation: Cecilia Mazzaro, Lorenzo Fagiano

Efficient Energy Utilization: Alessandro Beghi, Prabir Barooah

WEB-PAGE MAINTENANCE

The TC web-page has been moved to:

<http://power-generation.ieeeccs.org>

CONFERENCES

One invited session on “Control of Fusion Plasmas in Tokamaks,” organized by Prof. Eugenio Schuster and Prof. Alfredo Pironti, and one invited session on “Building Systems,” organized by Prof. Andrew G. Alleyne and Dr. Sunil Ahuja, will be held during the upcoming IEEE Conference on Decision and Control, Florence, Italy, December 10-13, 2013. In addition, several regular papers by members of the TC in the areas of Nuclear Energy Generation, Fossil Energy Generation, Renewable Energy Generation and Efficient Energy Utilization will be presented during the conference.

OUTREACH ACTIVITY

We actively work on letting the Controls/Energy community know about the IEEE-CSS TC on Power Generation as well as on integrating researchers around the world in its organized activities. The TC has now more than 100 registered members. A summary on some aspects of Control of Nuclear Fusion Reactors was prepared by members of the IEEE-CSS TC on Power Generation led by Prof. Emmanuel Witrant and contributed to the 2013 IEEE-CSS Impact of Control Technology Report.

MEETINGS

The TC will hold its semi-annual meeting during the upcoming IEEE Conference on Decision and Control, Florence, Italy, December 10-13, 2013. The members of the Leadership Group attending the conference and a few invited TC members will attend the meeting.