

CTDSG 2016

11-13 October 2016

Prague, Czech Republic

The Workshop on Control of Transmission and Distribution Smart Grids (CTDSG 2016) were held in Prague, Czech Republic. This workshop CTDSG 2016 was co-sponsored by several TCs of the CC2, CC5, CC6, CC7 and CC9. The venue and supported by Czech Technical University in Prague – Faculty of Mechanical Engineering & Faculty of Electrical Engineering.

Workshop CTDSG brought new new aspects and methods of control of transmission and distribution systems, which were supported by the wide participation of top world and European experts from the academic field as well as from the energy industry. It can be stated that this extensive conference has not yet taken place in the Czech Republic.

The IPC chair of CTDSG 2016 was Prof. Kwang Y. Lee (USA) and the IPC Co-Chairs of CTDSG 2016 was Prof. Harald Weber (DE). The compositions of the IPCs were such that membership was comprised of members from 27 different countries. The workshop topics were following: 1. Power Systems, 2. Smart Grids, 3. Power Electronics, 4. Energy Market and Trading, 5. WAMS and WAMPaC Systems, 6. Simulators. There were a total of 90 paper submissions to these meetings, including invited session papers (39) and regular session papers (51), and after evaluation by the IPCs / reviewers, 81 papers were presented. The corresponding authors of the accepted CTDSG 2016 papers were from 22 different countries, with the top three countries being South Korea (13), Czech Republic (13) and France and Germany (tied with 7 contributions each). This diversity resulted in the productive exchange of ideas of the theory and industrial applications Smart Grids fields during and after the presentations. For the CTDSG 2016 the total number of participants was 115, with the top countries being Czech Republic (27), South Korea (14), Germany (11), USA (9) and France (8). Women comprised 12, and students comprised 24 of the participants. As usual, all presented papers will appear in IFAC PapersOnline, maintained by Elsevier hosted Scopus (ISBN). There is proceedings for CTDSG 2016 (ISSN 2405-8963). Editorial professional work performed by Dr. Petr Neuman (CZ).

The meeting of the IFAC Technical Committee 6.3, Power and Energy Systems, was held during workshop. The agenda included TC 6.3 events in the future: 1. Approval and preparation of the 10th Symposium CPES 2018 in Tokyo, Japan. 2. Discussion about location of the Power and Energy Workshop - PEW 2019, which will be held probably in Irkutsk, Russia.

One of the goal of this workshop CTDSG 2016 is also to establish cooperation between IFAC and relevant international associations CIGRE / CIRED and ENTSO-E / EDSO. The possibilities of cooperation were discussed at two parallel meetings, where the steps for their future implementation were specified.

The number of papers with corresponding women-author was 8, and papers with woman as co-author was 15. From these papers was selected the winner of the “**Edith Clarke Woman Paper Prize**” from France.

The winner became Lady Anna Maternik-Demontoux, paper title: „Power transformers and environmental protection“, company Transformer Protector SERGI, Achères, France.

Special **Women Involvement Panel** was also organized. This panel focused on the importance of bringing more visibility to women in power engineering and concluded as follows: 1. The greater involvement of women is still challenging. 2. It is recommended to identify, promote and advance female role models.

One of the ways realization the involvement of industry was granting “**Industrial Award**”. The winner became Mr. Miroslav Slámka, paper title: „Real Time Dispatch Training Simulator based on TRIS / DMES ELEKTROSYSTEM“, company ELEKTROSYSTEM Inc., Žilina, Slovakia.

Throughout the workshop **Parallel Exhibition** of the industrial companies, their equipments and control systems took place before a large lecture hall. The total number of Exhibitors was 7, one of the countries Canada, France, Slovakia, Austria and three of the Czech Republic.

In addition to the technical sessions was organized **Technical Tour** to the dispatch control center Czech TSO – company CEPS, on October 14, 2016. The object of tour was Dispatch Control System TRIS developed by Slovak company ELEKTROSYSTEM, and secondly Wide Area Monitoring System WAMS. Another object of interest was Real Time Dispatch Training Simulator (DTS) based on system TRIS and simulation engine DMES. This simulator DTS is the winner in the above mentioned category of “**Industrial Award**”.

As for the social events, the National Organization Committee arranged a Welcome Reception and Closing Ceremony – Dinner at Dominican Monastery Frater. The highlight of the social events was the Conference Dinner in Captain’s Club - Botel Admiral, Vltava river, on October 12, 2016.

The social events and reduced registration fee for students were made possible by the General Sponsorship (EGÚ Praha Engineering, Czech Republic), Silver Sponsorship (RTDS Technologies Inc., Canada) and industrial exhibitors: OPAL RT Europe (France), RTDS Technologies Inc. (Canada), ELEKTROSYSTEM (Slovakia), S&T AG (Austria), as well as EGÚ Praha Engineering, HUMUSOFT and TECO Advanced Automation (all from Czech Republic).

Submitted by Prof. Kwang Y. Lee (USA), IPC Chair,
Dr. Petr Neuman (CZ), NOC Co-Chair