



U organizaciji IEEE PES Podružnice za Srbiju i Crnu Goru i Elektrotehničkog instituta “Nikola Tesla” u Beogradu, u petak 15. 06. 2018. u 12 h u Sali 211 Elektrotehničkog instituta “Nikola Tesla” održaće se predavanje pod nazivom

"METROLOGY AND THE SMART ELECTRIC POWER GRID"

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Abstract - Metrology is in the very basis of acquiring scientific knowledge. In today's interdependent world, ensuring uniform metrology inside and across national boundaries is a very important enabling factor of both national and international trade. In electric power systems, measurements of electrical and non-electrical quantities are necessary for their control, protection, and safe and reliable operation. Another very significant application of metrology is in electric energy trade, i.e. in revenue metering for both industrial and residential customers, but also between countries. The impact of distributed power generation, renewable energy resources, and deregulation of electrical power utilities introduced in many countries will be discussed. The question what Smart Grid really is will be addressed, and how it relates to smart metering, power quality measurements, synchrophasor measurements, digital substations, and other power system technologies. The role of National Measurements Institutes will be highlighted. New instrumentation and measurement methods for both highest-accuracy and industrial applications for AC electrical power and energy, including high-voltage and high-current calibrations and applications, will be addressed.

Author's Biography



Branislav Djokić (IEEE M'90-SM'97-F'13, EIC F'15) received his Dipl.Ing. Degree in Power Systems Engineering (1981), Dipl.Ing. Degree in Electronics (1984), and M.Sc. (1988) and Ph.D. (1993) Degrees in Electrical Engineering from the University of Belgrade, Serbia. From 1982 to 1990, he was a researcher at the R&D Institute Mihajlo Pupin, Belgrade, where he worked on the development of industrial and high-accuracy systems for electrical power and energy measurements. From 1990 to 1994, he was a faculty member of the School of Electrical Engineering, University of Belgrade. In 1994, he joined the National Research Council of Canada, in Ottawa, Ontario, where he has been working as a researcher in the field of electrical power measurements.

His research interests include high accuracy measurement systems, data acquisition, measurement automation, and digital signal processing. Dr. Djokić is a registered Professional Engineer in the Province of Ontario. He is presently IEEE PES Chapters Canada East Representative, and IEEE Ottawa Section PES Chapter and Educational Activities Chair.