

# IEEC 2017 FULL SCHEDULE

**Wednesday , August 30<sup>th</sup>**

09<sup>00</sup> – 10<sup>00</sup>      **REGISTRATION**

10<sup>00</sup> – 10<sup>30</sup>      **OPENING CEREMONY**

10 <sup>30</sup> – 11 <sup>30</sup>	<b>Current, if not obstructed, will always follow the path of...</b> - Invited lecture Elya Joffe
-------------------------------------	--

11<sup>30</sup> – 11<sup>45</sup>      Coffee break

## ORAL SESSION 1 – Computation of electromagnetic fields 1

11 <sup>45</sup> – 12 <sup>00</sup>	<b>Numerical analysis of transient and steady state operation of three-phase induction motor</b> Vasilija Šarac, Goce Stefanov
12 <sup>00</sup> – 12 <sup>15</sup>	<b>Calculation of stress and temperature in the delta closure copper plates of EAF</b> Snežana Čundeve, Mihail Digalovski
12 <sup>15</sup> – 12 <sup>30</sup>	<b>Battery pack design problems – influence of the transverse magnetic field on internal battery resistance</b> Tin Benšić, Željko Hederić, Marinko Barukčić, Miralem Hadžiselimović, Nenad Cvetković
12 <sup>30</sup> – 12 <sup>45</sup>	<b>About solving magnetic problems with rounded-corner domains</b> Ioana-Gabriela Sirbu
12 <sup>45</sup> – 13 <sup>00</sup>	<b>Synchronous generator with inset PM rotor: FEM analysis of voltage compensation capability</b> Marian Greconici, Gheorghe Madescu, Constantin Dobrean, Martian Mot, Marius Biriescu

13<sup>00</sup> – 14<sup>30</sup>      Lunch

## ORAL SESSION 2 – EM circuits & systems

14 <sup>30</sup> – 15 <sup>30</sup>	<b>Potential applications of memristors in microwave circuits</b> - Invited lecture Milka Potrebić
15 <sup>30</sup> – 15 <sup>45</sup>	<b>Spice compatible equivalent circuits for analysis of grounding conductors</b> Andrijana Kuhar, Lidija Ololoska-Gagoska, Leonid Grčev
15 <sup>45</sup> – 16 <sup>00</sup>	<b>Electromagnetic interfeeration reduction by using sensorless FOC of IPMSM with PICCOLO F28069 controlstick</b> Lindita Dhamo, Aida Spahiu, Mitja Nemeč, Vanja Ambrozić
16 <sup>00</sup> – 16 <sup>15</sup>	<b>Filter design for three phase grid connected power converters</b> Bojan Banković, Nebojša Mitrović, Vojkan Kostić, Milutin Petronijević
16 <sup>15</sup> – 16 <sup>30</sup>	<b>Overall efficiency in electric road vehicles</b> Nikša Čavar, Damir Vuljaj, Mario Vražić

16<sup>30</sup> – 16<sup>45</sup>      Coffee break

## ORAL SESSION 3 – EMC problems

16 <sup>45</sup> – 17 <sup>00</sup>	<b>High frequency behaviour of ground rods in two-layer soil</b> Vesna Arnautovski Toševa, Leonid Grčev, Snežana Čundeve
17 <sup>00</sup> – 17 <sup>15</sup>	<b>Numerical simulation of DC corona discharge</b> Milan Ignjatović, Jovan Cvetić, Dragan Pavlović, Nikola Mijajlović
17 <sup>15</sup> – 17 <sup>30</sup>	<b>Harmonic impact on power grid of multi drive system with active front end technology</b> Bojan Banković, Nebojša Mitrović, Vojkan Kostić, Milutin Petronijević, Filip Filipović
17 <sup>30</sup> – 17 <sup>45</sup>	<b>System for supplying electric energy with zero CO<sub>2</sub> emissions</b> Simona Ilie, Ciprian Sorândaru, Marian Greconici, Dumitru Toader
17 <sup>45</sup> – 18 <sup>00</sup>	<b>The maximum power transfer from the ports of a DC – DC power converter which behaves as a gyrator</b> Ildiko Tatai

Social activities

Thursday, August 31<sup>st</sup>

08<sup>00</sup> – 09<sup>00</sup> **REGISTRATION**

09 <sup>00</sup> – 10 <sup>00</sup>	<b>Ethics challenges in the Engineering profession</b> - Invited lecture Elya Joffe
-------------------------------------	--

**ORAL SESSION 4 – Computation of electromagnetic fields 2**

10 <sup>00</sup> – 10 <sup>15</sup>	<b>Magnetic field of handheld hair dryers</b> Miodrag Milutinov, Anamarija Juhas, Neda Pekarić-Nad
10 <sup>15</sup> – 10 <sup>30</sup>	<b>Magnetic field of electrical radiant heating system</b> Miodrag Milutinov, Anamarija Juhas, Neda Pekarić-Nad
10 <sup>30</sup> – 10 <sup>45</sup>	<b>Capacitance determination of cylindrical conductor of square cross section placed in groove</b> Milan Vesković, Jeroslav Živanić, Nenad N. Cvetković, Zoran V. Jevremović
10 <sup>45</sup> – 11 <sup>00</sup>	<b>Application of electrostatics in simulation of breast pathology images</b> David Pokrajac, Predrag Bakić, Dejan B. Jovanović, Andrew D. A. Maidment

11<sup>00</sup> – 11<sup>15</sup> Coffee break

**ORAL SESSION 5 – Electromagnetic field measurement techniques**

11 <sup>15</sup> – 11 <sup>30</sup>	<b>Motion-induced eddy current testing of composite materials</b> Hartmut Brauer, Stephan Gorges, Marek Ziolkowski, Hannes Toepfer
11 <sup>30</sup> – 11 <sup>45</sup>	<b>Measurement of magnetic flux density of large-diameter multilayer solenoid</b> Branko Koprivica, Marko Šučurović, Nikola Jevtić, Alenka Milovanović
11 <sup>45</sup> – 12 <sup>00</sup>	<b>Linetgis application using lightning detection network data</b> Vesna Javor, Leonid Stoimenov, Nikola Džaković, Nikola Dinkić, Dario Javor, Hans-Dieter Betz
12 <sup>00</sup> – 12 <sup>15</sup>	<b>Magnetolectric current sensor in the EMR range</b> Mirza Bichurin, Roman Petrov, Viktor Leontiev, Oleg Sokolov, Katja Tonisch, Stefan Krischok, Hannes Töpfer
12 <sup>15</sup> – 12 <sup>30</sup>	<b>One solution of a low-cost Teslameter</b> Uglješa Jovanović, Igor Jovanović, Marjan Blagojević, Dragan Mančić

12<sup>30</sup> – 14<sup>00</sup> Lunch

**POSTER SESSION**

14 <sup>00</sup> – 15 <sup>00</sup>	<b>Average bit error probability comparison of dual-branch and triple-branch selection diversity receiver based on desired signal algorithm over correlated Weibull fading channels</b> Aleksandra Golubović, Nikola Sekulović, Mihajlo Stefanović, Dejan Milić
	<b>Capacity of cooperative multi-hop multiuser relay system</b> Nikola Sekulović, Aleksandra Panajotović, Aleksandra Cvetković, Daniela Milović
	<b>Electromagnetic Model of the External Lightning Protection System</b> Dino Lovrić, Slavko Vujević
	<b>Machine learning application in permanent magnet magnetic force calculation</b> Ana Stojanović, Dušan Vučković, Milena Stanković, Ana Vučković
	<b>Radially magnetized ring permanent magnet modelling in vicinity of soft magnetic cylinder</b> Ana Vučković, Nebojša Raičević, Mirjana Perić
	<b>Analysis of Bowman squares using Hybrid boundary element method</b> Mirjana Perić, Saša Ilić, Ana Vučković
	<b>Advantages of the amplitude characteristics of special Gegenbauer low-pass filters</b> Aleksandar Ilić, Vlastimir Pavlović, Zlata Cvetković
	<b>Design of nearly monotonic passband filters with sharp cutoff</b> Dragana Živaljević, Negovan Stamenković, Nikola Stojanović
	<b>Energy Efficient Lighting in Industry</b> Dragan Vučković, Miodrag Stojanović, Dragan Tasić, Srđan Jovković
	<b>Comparison of memristor models for microwave circuit simulations</b> Ivo Marković, Milka Potrebić, Dejan Tošić, Zlata Cvetković
<b>Dynamic electrostatic systems in the oil industry</b>	

	Mičo Gaćanović
	<b>One approximate analytical expression for resistance of the vertical grounding electrode placed in multilayered media</b> Dejan B. Jovanović, Nenad N. Cvetković, Miodrag S. Stojanović, Marinko Barkučić, Željko Hederić, Vladimir Stanković

15<sup>00</sup> – 15<sup>15</sup> Coffee break

**ORAL SESSION 6 – Other**

15 <sup>15</sup> – 15 <sup>30</sup>	<b>Simple, energy-efficiency stand alone water pumping system regulated by sliding mode control</b> Sergey Ryvkin
15 <sup>30</sup> – 15 <sup>45</sup>	<b>Lambert W function application to a direct current motor speed regulation with a delay</b> Radmila Gerov, Zoran Jovanović
15 <sup>45</sup> – 16 <sup>00</sup>	<b>The influence of the delay on the position of the rotor of a direct current motor</b> Radmila Gerov, Zoran Jovanović
16 <sup>00</sup> – 16 <sup>15</sup>	<b>Outage performance of wireless system in the presence of Rician short term fading, gamma long term fading and Nakagami-m interference</b> Dragana Krstić, Ivica Marjanović, Selena Vasić, Vladeta Milenković, Mihajlo Stefanović
16 <sup>15</sup> – 16 <sup>30</sup>	<b>Probability density function of the double Nakagami-m channel signal to interference ratio in the presence of Rayleigh interference</b> Nenad Milošević, Bojana Nikolić, Mihajlo Stefanović

16<sup>30</sup> – 17<sup>00</sup> CLOSING CEREMONY

20<sup>00</sup> CONFERENCE DINNER

**Friday, September 01<sup>st</sup>**

Excursion