

**OPENING CEREMONY – AMPHITHEATER A1**MONDAY, SEPTEMBER 02<sup>ND</sup>, 10:00 – 11:00**LECTURE – AMPHITHEATER A1**MONDAY, SEPTEMBER 02<sup>ND</sup>, 11:00 – 11:30**NIKOLA TESLA - BETWEEN TECHNOLOGY, SCIENCE AND PSEUDOSCIENCE**

PROF. DR. DAVID POKRAJAC, DELAWARE STATE UNIVERSITY (DSU), USA

**KEYNOTE LECTURE – ROOM A**MONDAY, SEPTEMBER 02<sup>ND</sup>, 11:45 – 12:45**PROBING THE FUTURE: ON THE ROLE OF UNIVERSITIES, INDUSTRY ENTREPRENEURS, AND PROFESSIONAL SOCIETIES**ELYA B. JOFFE, PRESIDENT OF THE IEEE PRODUCT SAFETY ENGINEERING SOCIETY,  
PAST PRESIDENT OF THE IEEE EMC SOCIETY**SOFTWARE PRESENTATION – ROOM A**MONDAY, SEPTEMBER 02<sup>ND</sup>, 12:45 – 13:30**SOLVING, ANALYZING AND OPTIMIZING ELECTROSTATIC CONFIGURATIONS USING****ROBIN HOOD SOLVER v2.0**

TONI DRABIK, ARTES CALCULI LTD, ZAGREB, CROATIA

**KEYNOTE LECTURE – ROOM A**MONDAY, SEPTEMBER 02<sup>ND</sup>, 14:30 – 15:30**RISK ACCEPTABILITY (TOLERABILITY) IN SYSTEM SAFETY: CONCEPTS AND METHODOLOGY**ELYA B. JOFFE, PRESIDENT OF THE IEEE PRODUCT SAFETY ENGINEERING SOCIETY,  
PAST PRESIDENT OF THE IEEE EMC SOCIETY**EMC WORKSHOP – ELISE 2013 JOINT PROJECT – ROOM A**MONDAY, SEPTEMBER 02<sup>ND</sup>, 15:30 – 17:00

Time slot	Paper title & authors
15:30 – 15:45	The Electric Field Induced by Transcranial Magnetic Stimulation: A Comparison Between Analytic and FEM Solutions K. PORZIG, H. BRAUER, H. TOEPFER
15:45 – 16:00	Influence of the Pulse Propagation Velocity along a Vertical Antenna on Electric Field above a Lossy Ground V. JAVOR
16:00 – 16:15	Assessment of Magnetic Field above Indoor Transformer M. MILUTINOV, A. JUHAS, N. PEKARIĆ-NAĐ
16:15 – 16:30	Example of Testing Immunity to ESD of Electric Meters in Their Development Phase T. PRERADOVIĆ, M. GAĆANOVIĆ
16:30 – 16:45	Modelling of Plane Wave Coupling to Horizontal Wire Conductor above Lossy Soil V. ARNAUTOVSKI-TOSHEVA, L. GRCEV
16:45 – 17:00	Computer-Aided Fault Coverage and Diagnosability Investigation of Electronic Circuits E. GADJEVA, D. SHIKALANOV, A. ATANASOV

**PROJECT PRESENTATION – ROOM B**MONDAY, SEPTEMBER 02<sup>ND</sup>, 17:20 – 17:40**DEVELOPMENT OF AN INFORMATION NETWORK FOR CONTINUOUS INVESTIGATION OF ELECTROMAGNETIC FIELDS – SEMONT**

DR. NIKOLA ĐURIĆ, FTN NOVI SAD, SERBIA

**SOFTWARE PRESENTATION – ROOM B**MONDAY, SEPTEMBER 02<sup>ND</sup>, 17:40 – 18:00**BUS BAR ANALYSIS IN ANSYS ENVIRONMENT**

DR. MOLNÁR LÁSZLÓ, ECon ENGINEERING KFT, HUNGARY

**POSTER SESSION P1 – EMC PROBLEMS / COUPLED FIELD PROBLEMS / ELECTROMAGNETIC FIELD MEASUREMENTS TECHNIQUES / COMPUTATION OF ELECTROMAGNETIC FIELDS – ROOM B**MONDAY, SEPTEMBER 02<sup>ND</sup>, 18:00 – 19:00

Time slot	Paper title & authors
18:00 – 19:00	New Method for Fault Location in Transmission Network Using Genetic Algorithms and Sparse Field Recordings R. RUSEV
18:00 – 19:00	Application of a Fast Boundary Element Algorithm for Open Floating Potential Electrostatic Problem D. JUN, L. LICHENG, H. YANPENG, C. HE, W. JUN, Z. XIN
18:00 – 19:00	Optimizing the Multiplicative Model of Electricity Consumption of Electricity Subject N. NEDELICHEV, N. HERAUD, D. KOEVA
18:00 – 19:00	An Effective Algorithm for Localization of Single Line to Ground Faults in Power Transmission Lines Through Bilateral Measurements R. RUSEV
18:00 – 19:00	The SEMONT Pilot Implementation for EM Field Monitoring over the Campus of the University of Novi Sad N. ĐURIĆ, D. KLJAJIĆ, K. KASAŠ-LAŽETIĆ, M. MILUTINOV
18:00 – 19:00	Derating of Three-Phase Squirrel-Cage Induction Motor under Broken Bars Fault J. FAIZ, A.M. TAKBASH
18:00 – 19:00	Epstein Frame for Magnetic Characteristics Determination D. HERCEG, K. KASAŠ-LAŽETIĆ, M. PRŠA, V. BAJOVIĆ
18:00 – 19:00	Analysis of a Symmetric Center-Driven V-Antenna M. RANČIĆ, S. ALEKSIĆ
18:00 – 19:00	Partial Element Equivalent Circuit Model for a Perfect Conductor Excited by a Current Source A. KUCHAR, R. JANKOSKI, V. ARNAUTOVSKI-TOSHEVA, L. OLOLOSKA-GAGOSKA, L. GRCEV
18:00 – 19:00	About the Forces in a Parallel Plate Nonhomogeneous Capacitor M. GRECONICI, C. BLAJ
18:00 – 19:00	New Possibilities of the Passive Elimination of Static Electricity N. DRAGOVIĆ, M. GAĆANOVIĆ
18:00 – 19:00	Contribution to the Split-Wound Dual-Stator High Speed Induction Generator Design R. BORACI, I. FILIP, N. BUDISAN, G. PROSTEAN, I. SZEIDERT

18:00 – 19:00	Application of a Model of the Road Influence on the Lighting Pillars' Grounding Systems N.N. CVETKOVIĆ, D.D. VUČKOVIĆ, M.S. STOJANOVIĆ, D. KRSTIĆ, D. TASIĆ
18:00 – 19:00	Closed-Form Solution for Lossy Linearly Tapered Transmission Line M. BAJIĆ, Z.Ž. CVETKOVIĆ
18:00 – 19:00	One Form of Discrete Euler-Lagrange Equation with Application in Optimal Control D.S. ANTIĆ, N.B. DANKOVIĆ, S.LJ. PERIĆ, S.S. NIKOLIĆ, M.T. MILOJKOVIĆ
18:00 – 19:00	Implementation and Optimization of CPML in FDTD Algorithm B. NIKOLIĆ, N. RAIČEVIĆ, B. DIMITRIJEVIĆ, S. ALEKSIĆ

#### KEYNOTE LECTURE – ROOM A

TUESDAY, SEPTEMBER 03<sup>RD</sup>, 9:00 – 11:00

#### GROUNDING: THE GROUNDS FOR EMC DESIGN

ELYA B. JOFFE, PRESIDENT OF THE IEEE PRODUCT SAFETY ENGINEERING SOCIETY,  
PAST PRESIDENT OF THE IEEE EMC SOCIETY

#### ORAL SESSION O1 – EMC PROBLEMS – ROOM A

TUESDAY, SEPTEMBER 03<sup>RD</sup>, 11:15 – 12:15

Time slot	Paper title & authors
11:15 – 11:30	Finite Element Improved Transmission Line Model of a Grounding Grid R. LUCIĆ, I. JURIĆ-GRGIĆ, A. BERNADIĆ
11:30 – 11:45	Harmonic Aspects of Wind-Power Installations K. YANG, S. CUNDEVA, M. BOLLEN, M. WAHLBERG
11:45 – 12:00	Dynamics of the Lightning Channel Using Generalized Traveling Current Source Return Stroke Model M. IGNJATOVIĆ, J. CVETIĆ, F. HEIDLER, S. MARKOVIĆ, D. PAVLOVIĆ, R. ĐURIĆ, D. ŠUMARAC PAVLOVIĆ, Z. TRIFKOVIĆ
12:00 – 12:15	Current Situation in the Frequency Range from 2 to 150 kHz with Regard to Electromagnetic Compatibility B. JAEKEL, B. WEIS

#### KEYNOTE LECTURE – ROOM A

TUESDAY, SEPTEMBER 03<sup>RD</sup>, 12:15 – 12:45

#### MAGNETOELECTRIC MULTIFERROIC COMPOSITES: PHENOMENA AND DEVICES

PROF. DR. MIRZA I. BICHURIN, NOVGOROD STATE UNIVERSITY, DEPARTMENT OF DESIGN AND TECHNOLOGY OF ELECTRONIC EQUIPMENT, VELIKY NOVGOROD, RUSSIA

#### ORAL SESSION O2 – COMPUTATION OF ELECTROMAGNETIC FIELDS – ROOM A

TUESDAY, SEPTEMBER 03<sup>RD</sup>, 12:45 – 13:45

Time slot	Paper title & authors
12:45 – 13:00	Axial Force Calculation of Passive Magnetic Bearing in Case of Radial Magnetization A. VUČKOVIĆ, S. ILIĆ, N. RAIČEVIĆ, M. BICHURIN, A. TATARENKO
13:00 – 13:15	Covered Microstrip Line with Ground Planes of Finite Width M.T. PERIĆ, S.S. ILIĆ, S.R. ALEKSIĆ, N.B. RAIČEVIĆ, M.I. BICHURIN, A.S. TATARENKO, R.V. PETROV
13:15 – 13:30	Improvement of Induction Machine Inductances Estimation Based on Machine Geometry M. GHASEMI BIJAN, J. FAIZ
13:30 – 13:45	Least Squares Estimation of Double-Exponential Function Parameters D. LOVRIĆ, S. VUJEVIĆ, T. MODRIĆ

**KEYNOTE LECTURE – ROOM A**TUESDAY, SEPTEMBER 03<sup>RD</sup>, 14:45 – 15:15**FAULTS DIAGNOSIS IN POWER TRANSFORMERS**

**PROF. DR.-ENG. JAWAD FAIZ**, CENTER OF EXCELLENCE ON APPLIED ELECTROMAGNETIC SYSTEMS,  
SCHOOL OF ELECTRICAL AND COMPUTER ENGINEERING, UNIVERSITY COLLEGE OF ENGINEERING,  
UNIVERSITY OF TEHRAN, IRAN

**ORAL SESSION O3 – COUPLED FIELD PROBLEMS – ROOM A**TUESDAY, SEPTEMBER 03<sup>RD</sup>, 15:15 – 16:15

Time slot	Paper title & authors
15:15 – 15:30	Broken Bars Fault Diagnosis in Industrial Induction Motors Using Current Envelope Modulation via TSDM J. FAIZ, V. GHORBANIAN, H. EHYA
15:30 – 15:45	Dynamic Eccentricity Fault Diagnosis in a Salient Pole Synchronous Generator J. FAIZ, H. EHYA
15:45 – 16:00	Application and Analyzing the Signals of the Automobile Sensors for Diagnostics and Control of the Automobile Technical Condition S. BOZHKOVA, I. MILENOV, P. BOZHKOVA
16:00 – 16:15	Comparison of Transient Performances Between the Augmented Railgun and the Hybrid Launcher M. ABDELLAH, A. BENHABILES, H. MOHELLEBI

**KEYNOTE LECTURE – ROOM A**TUESDAY, SEPTEMBER 03<sup>RD</sup>, 16:30 – 17:00**AN APPROACH FOR THE CALCULATION OF END LEAKAGE FOR SR MOTORS**

**PROF. DR.H. BÜLENT ERTAN**, MIDDLE EAST TECHNICAL UNIVERSITY, ANKARA, TURKEY

**ORAL SESSION O4 – ELECTROMAGNETIC FIELD MEASUREMENTS TECHNIQUES- ROOM A**TUESDAY, SEPTEMBER 03<sup>RD</sup>, 17:00 – 18:00

Time slot	Paper title & authors
17:00 – 17:15	Nondestructive Characterization of Materials Using Lorentz Force Eddy Current Testing H. BRAUER, R.P. UHLIG, M. ZEC, M. CARLSTEDT, K. PORZIG, M. ZIOLKOWSKI, H. TOEPFER
17:15 – 17:30	Real Time Measurement and Analysis of Magnetic Field Disturbances M. PETKOVSKI, M. KOSTOV, V. CESEKOSKA
17:30 – 17:45	Utilization of the EFA-300 Field Meter into the SEMONT Information Network M. MILUTINOV, N. ĐURIĆ, D. MIŠKOVIĆ, D. KNEŽEVIĆ
17:45 – 18:00	The SEMONT Test Location Monitoring of the High Frequency Electric Field D. KLJAJIĆ, N. ĐURIĆ, K. KASAŠ-LAŽETIĆ

**KEYNOTE LECTURE – ROOM B**TUESDAY, SEPTEMBER 03<sup>RD</sup>, 18:15 – 18:45**SLIDING MODE AS AN EFFECTIVE TOOL TO CONTROL POWER ELECTRONIC NONLINEAR PLANTS**

**PROF. DR.-ING. HABIL. SERGEY RYVKIN**, TRAPEZNIKOV INSTITUTE OF CONTROL SCIENCES OF  
RUSSIAN ACADEMY OF SCIENCES, MOSCOW, RUSSIA

**POSTER SESSION P2 – CIRCUITS AND SYSTEMS – ROOM B**TUESDAY, SEPTEMBER 03<sup>RD</sup>, 18:45 – 19:45

Time slot	Paper title & authors
18:45 – 19:45	Cogging Torque Reduction in a Single-Phase Surface-Mounted Permanent Magnet Motor by Locating PM in Different Positions J. FAIZ, A.H. TAVAKOL-ZADEH, G. SHAHGHOLIAN
18:45 – 19:45	Approaches for Multiprocessor Systems Building for Decentralized Secondary Voltage Control in Distribution Grids D. NYAGOLOV, V. CHOBANOV
18:45 – 19:45	Piezoelectric Transformer with Magnetic Phase A.N. SOLOVYEV, I.N. SOLOVYEV, G.A. SEMENOV, M.I. BICHURIN, S.R. ALEKSIĆ
18:45 – 19:45	Sensitivity of Magnetolectric Current Sensor I.N. SOLOVYEV, A.N. SOLOVYEV, R.V. PETROV, M.I. BICHURIN, A.N. VUČKOVIĆ, N.B. RAIČEVIĆ
18:45 – 19:45	Magnetolectric Microwave Devices M.I. BICHURIN, A.S. TATARENKO, D.V. LAVRENTYEVA, S.R. ALEKSIĆ
18:45 – 19:45	Tunable Magnetolectric Inductor K.V. LAVRENTYEVA, V.M. PETROV, M.I. BICHURIN, M.P. RANČIĆ, S.R. ALEKSIĆ
18:45 – 19:45	Probability Density Functions of SSC Combiner Output Signal Derivatives at Two Time Instants in the Presence of Log-Normal Fading P. NIKOLIĆ, D. KRSTIĆ, A. STEVANOVIĆ, G. STAMENOVIĆ
18:45 – 19:45	Dynamic 3D Modelling of Tesla's Long Island Laboratory V. VUČKOVIĆ, N. STOJANOVIĆ
18:45 – 19:45	A Control Solution for Operating PV Panels at Maximum Power Point O. GANA, C. VASAR, O. PROSTEAN, M. BABESCU, C. KOCH-CIOBOTARU, O. TIRIAN
18:45 – 19:45	Design of Selective Normalized LC Ladder Prototype Filters for Wireless Applications A.D. ILIĆ, Z.Ž. CVETKOVIĆ, V.D. PAVLOVIĆ
18:45 – 19:45	Exact Stop-Band Characteristic Analysis of the Multiplierless Linear-Phase 2D Fir Filter Functions J.R. ĐORĐEVIĆ-KOZAROV, D. MILIĆ, I. ĆIRIĆ, Z. VELIČKOVIĆ, V.D. PAVLOVIĆ
18:45 – 19:45	Realizations of Prototype Allpole Filters Nearly Monotonic in the Passband with LC Ladder Networks D. ŽIVALJEVIĆ, N. STAMENKOVIĆ, V. STOJANOVIĆ

18:45 – 19:45	RNS Scaler for Three Moduli Set $\{2^n-1, 2^n, 2^{n+1}\}$ N. STAMENKOVIĆ, D. ŽIVALJEVIĆ, V. STOJANOVIĆ
18:45 – 19:45	Channel Capacity of Selection Diversity Based on Desired Signal Algorithm over Correlated Weibull Fading Channels A. GOLUBOVIĆ, M. BANĐUR, Č. STEFANOVIĆ
18:45 – 19:45	BER Performance of IM/DD FSO System With OOK over Gamma-Gamma Atmospheric Turbulence Channel with Pointing Errors M.I. PETKOVIĆ, G.T. ĐORĐEVIĆ, B.V. VASIĆ
18:45 – 19:45	Performance Analysis of Selection and Switch-and-Stay Combining Diversity Receivers in Two Wave with Diffuse Power Fading Channel N. MILOŠEVIĆ, B. DIMITRIJEVIĆ, Z. NIKOLIĆ
18:45 – 19:45	Design and Analysis of Bandstop Waveguide Filters Using Split Ring Resonators S. STEFANOVSKI, M. POTREBIĆ, D. TOŠIĆ, Z. CVETKOVIĆ
18:45 – 19:45	Numerical Simulation Absorbed Electromagnetic Field on Service Technicians from Base Station Antenna System D. KRSTIĆ, D. ZIGAR, N.N. CVETKOVIĆ, G. RISTIĆ
18:45 – 19:45	Determination of the Capacitance per Unit Length Cylindrical Conductor Line in Groove M. VESKOVIĆ, J. ŽIVANIĆ, M. PLAZINIĆ