

IEEC 2009 TIME SCHEDULE

SUNDAY, AUGUST 30, 2009

08:00 – 19:00	Excursion to Oplenac and Topola
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MONDAY, AUGUST 31, 2009

08:00 – 10:00		REGISTRATION
10:00 – 11:30	Exhibition open "Tesla's Wonderful World of Electricity"	OPENING CEREMONY Vesna Javor, Conference Chairman Slavoljub Aleksić, IEEC 2009 Scientific board member Hartmut Brauer, IEEC 2009 Scientific board member Ivan Yatchev, IEEC 2009 Scientific board member Vladimir Jelenković, Director of the Nikola Tesla Museum Vladan Vučković, Leader of the project "Computer Simulation and 3-D Modeling of the Original Patents of Nikola Tesla"
11:30 – 12:30		VIEWING OF EXHIBITS OF MUSEUM NIKOLA TESLA Exhibition at the Faculty of Electronic Engineering, University of Niš, Serbia
12:30 – 13:30		LUNCH BREAK
13:30 – 14:30		PRESENTATION OF COMSOL MULTIPHYSICS MODELING AND SIMULATION
14:30 – 16:30		ORAL SESSION O1
16:30 – 16:50		COFFEE BREAK
16:50 – 18:50		ORAL SESSION O2

TUESDAY, SEPTEMBER 01, 2009

08:00 – 11:00		REGISTRATION
08:40 – 10:40	Exhibition open "Tesla's Wonderful World of Electricity"	ORAL SESSION O3
10:40 – 11:00		COFFEE BREAK
11:00 – 13:00		ORAL SESSION O4
13:00 – 14:00		LUNCH BREAK
14:00 – 16:00		ORAL SESSION O5
16:00 – 16:20		COFFEE BREAK
16:20 – 18:20		ORAL SESSION O6
19:30		CONFERENCE DINNER

WEDNESDAY, SEPTEMBER 02, 2009

08:00 – 10:00		REGISTRATION
09:00 – 11:00	Exhibition open "Tesla's Wonderful World of Electricity"	ORAL SESSION O7
11:00 – 11:20		COFFEE BREAK
11:20 – 13:20		ORAL SESSION O8
13:20 – 14:20		LUNCH BREAK
14:20 – 16:40		ORAL SESSION O9
16:40 – 17:00		CLOSING CEREMONY
17:00 – 19:00		SIGHTSEEING OF NIŠ SKULL TOWER, MEDIANA, ČEGAR HILL

ORAL SESSION O1 – COMPUTER PROGRAMS, SIMULATIONS AND CAD IN ELECTROMAGNETICS

Monday, August 31, 14:30-16:30

- O1_1 Proximity effect against skin effect in two coupled U-shaped busbars
K. KASAŠ-LAŽETIĆ , M. PRŠA, N. ĐURIĆ
- O1_2 Electromagnetic field computation errors from the current exciters idealization
R. STANCHEVA, I. IATCHEVA
- O1_3 The computer quantum simulator engine
V. VUČKOVIĆ
- O1_4 TEMline v1.0 - program package design project
M. MARINOVIĆ
- O1_5 Design optimization of special transformers - CAD, FEM and GA coupled approach
S. CUNDEVA, M. CUNDEVA-BLAJER, Lj. ARSOV
- O1_6 Advanced techniques for user authentication in public wireless networks
D. VUCKOVIĆ, D. JANKOVIĆ, P. RAJKOVIĆ

ORAL SESSION O2 – ELECTROMAGNETIC FIELD MEASUREMENT TECHNIQUES

Monday, August 31, 16:50-18:50

- O2_1 The application of computational electromagnetics to microwave dielectric gauging
(invited paper)
N. IDA
- O2_2 Simulation study for lorentz force eddy current testing
H. BRAUER, M. ZIOLKOWSKI
- O2_3 Numerical model of 2d non-linear time-harmonic eddy-current problem based on FEM
R. LUCIĆ, M. KURTOVIĆ, I. JURIĆ-GRGIĆ
- O2_4 A design of a four square coil system for a biomagnetic experiment
D. HERCEG, A. JUHAS, M. MILUTINOV
- O2_5 Evaluation of harmonic contents of voltage and current of the induction
motor according to load
S. IVANOV, I. MILENOV, C. DJAMBAZKI
- O2_6 Electromagnetic field interpolation from nonuniformly distributed measurements
V. CESELKOSKA, M. PETKOVSKI

ORAL SESSION O3 – COMPUTATION OF ELECTROMAGNETIC FIELDS (a)

Tuesday, September 01, 08:40-10:40

- O3_1 Comparison of grounding rod impedance in two-layer soil by image and electromagnetic theory approach
V. ARNAUTOVSKI-TOŠEVA, L. GRČEV
- O3_2 Conductive semi-sphere and two ring ground electrodes as pillar foundation grounding system
N. CVETKOVIĆ, P. RANČIĆ
- O3_3 One approach for characteristics improvement of shallow buried grounding electrodes
B. PETKOVIĆ, S. ILIĆ, S. ALEKSIĆ
- O3_4 Proximity effect in the line consisting of a thin tubular conductor and a filament
D. FILIPOVIC, T. DLABAC
- O3_5 Far-field of a horizontal wire radiating element above a lossy half-space: sinusoidal current distribution
M. RANČIĆ, P. RANČIĆ
- O3_6 Magnetic field distribution in vicinity of power line with bundled conductors
M. PERIĆ, D. TASIĆ, S. ALEKSIĆ

ORAL SESSION O4 – COMPUTATION OF ELECTROMAGNETIC FIELDS (b)

Tuesday, September 01, 11:00-13:00

- O4_1 Simulation of the dynamic behaviour of a permanent magnet linear actuator
I. YATCHEV, V. GUEORGIEV, R. IVANOV, K. HINOV
- O4_2 Shape identification in a magnetic separation system
I. IATCHEVA, R. STANCHEVA, G. KUNOV, I. YORDANOVA
- O4_3 Q factor determination of lossy rectangular metallic cavity using TLM method
B. MILOVANOVIC, N. DONCOV, J. JOKOVIC, T. DIMITRIJEVIC
- O4_4 TEM analysis of broadside coupled strip lines with anisotropic substrate
S. ILIĆ, N. RAIČEVIĆ, S. ALEKSIĆ
- O4_5 Low-frequency skin effect in a free space conductor
M. GRECONICI, G. MADESCU, M. MOT
- O4_6 The electric resistance in the galvanomagnetic devices
I. VETRES, D. VESA, M. GRECONICI

ORAL SESSION O5 – EMC PROBLEMS

Tuesday, September 01, 14:00-16:00

- O5_1 Probabilistic approach for deriving immunity levels against electromagnetic disturbances
B. JAEKEL, D. CARPENTER
- O5_2 An approach to lightning risk evaluation for structures and services
M. SZCZERBIŃSKI
- O5_3 Installation of the european lightning detection network linet in Serbia
V. JAVOR, H. BETZ
- O5_4 Efficiency assessment of the external lightning protection system
S. VUJEVIĆ, P. SARAJČEV, D. LOVRIĆ
- O5_5 About electromagnetic compatibility in 220 kV power systems
P. TUSALIU, D. C. TUSALIU, M. PERPELEA
- O5_6 Electromagnetic pollution in the area of high voltage lines and stations
I. GOȘEA, C. PĂTRAȘCU, L. RUIENEANU

ORAL SESSION O6 – COUPLED FIELD PROBLEMS/ELECTROMAGNETIC CIRCUITS AND SYSTEMS (a)
Tuesday, September 01, 16:20-18:20

- O6_1 Model predictive control of the drive system with an elastic joint – an experimental study
S. RYVKIN, K. SZABAT, M. CYCHOWSKI
- O6_2 LAB windows program in acquisition and processing of data at the measurement thermometers
S. MINIĆ, M. VORKAPIĆ, D. TANASKOVIĆ
- O6_3 A photovoltaic system designed for AC applications
A. M. NEACA, M. I. NEACA
- O6_4 Analysis of exponential transmission line as band pass impedance transformer
Z. CVETKOVIĆ, B. PETKOVIĆ
- O6_5 About sensitivity of bridge circuits - extreme sensitive bridge circuits
A. VORGUČIĆ
- O6_6 Electrical resistivity of concrete - time dependence
A. VORGUČIĆ

ORAL SESSION O7 – ELECTROMAGNETIC CIRCUITS AND SYSTEMS (b)
Wednesday, September 02, 09:00-11:00

- O7_1 Automatic control of industrial peak loads
M. KACARSKA, V. ARNAUTOVSKI-TOŠEVA, S. VELEVA
- O7_2 Modeling events faults using negative sequence component and 3rd harmonic in data acquisition systems of electrical networks
V. MLADENOVIĆ, S. BJELIĆ
- O7_3 Evaluation of electromagnetic perturbations in romanian transmission network according to actual regulations
D. RUSINARU, M. CIONTU, D. POPESCU
- O7_4 Power reactive compensation used as optimisation criteria in load current symmetrization
D. RUSINARU, L. G. MANESCU, D. POPESCU, D. STANESCU
- O7_5 Occupational risk assessment of operating live electrical power devices
M. DASZCZYSZAK
- O7_6 Power quality between power companies necessities and universities curricula
D. RUSINARU, D. POPESCU

ORAL SESSION O8 – ELECTROMAGNETIC CIRCUITS AND SYSTEMS (c)
Wednesday, September 02, 11:20-13:20

- O8_1 Determination of the no-load torque of dc micromotors with the finite element method
P. UZUNOV, P. VLADIMIROV, M. PENEV
- O8_2 Contactless starter for asynchronous motor
S. DAVIDOV, K. STOYKOV
- O8_3 Controller with remove contactless control of the 3-phase asynchronous motor
S. DAVIDOV, K. STOYKOV
- O8_4 Some special cases of symbolic sensitivity analysis using nullators and norators
I. ASENOVA
- O8_5 A new class of complementary iir digital filters based on all-pass sections
D. ŽIVALJEVIĆ, V. STOJANOVIĆ
- O8_6 Design of quadrature mirror filter bank using approximation in s-domain
N. STAMENKOVIĆ, D. ŽIVALJEVIĆ, V. STOJANOVIĆ
- O8_7 Influence of the impulse noise on the robustness of the digital watermark
Z. STEVANOVIĆ, V. STOJANOVIĆ, Z. MILIVOJEVIĆ

ORAL SESSION O9 – ELECTROMAGNETIC CIRCUITS AND SYSTEMS (d)

Wednesday, September 02, 14:20-16:40

- O9_1 Design of rapid single-flux quantum circuits at the FLUXONICS foundry
H. TOEPFER, T. ORTLEPP
- O9_2 Antennas embedded in CMOS integrated circuits
H. YORDANOV, P. RUSSER
- O9_3 Analysis of differential modulation scheme with distributed antennas
in Nakagami-m channel
N. DENIĆ, P. PETROVIĆ, N. MILOŠEVIĆ
- O9_4 Determination of fading nature and fading parameters by measured moment values
D. DENIĆ, D. ALEKSIĆ, A. JOCIĆ, M. STEFANOVIĆ
- O9_5 Second order statistics measures of selection macrodiversity system
in the presence of generalized gamma fading
D. RANČIĆ, G. STAMENOVIĆ, D. KRSTIĆ, S. PANIĆ, M. STEFANOVIĆ
- O9_6 Probability density function of M-ary fsk signal in the presence of gaussian noise,
intersymbol interference and generalized-K fading
G. STAMENOVIĆ, D. RANČIĆ, D. KRSTIĆ, P. NIKOLIĆ, M. STEFANOVIĆ
- O9_7 Performance of sc and ssc receivers in hoyt channel in the presence of
imperfect reference signal extraction
B. NIKOLIĆ, G. ĐORĐEVIĆ