

AGENDA

Please Note: All times are Central European Winter Time (UTC+1)

Time slot	Tuesday November 3, 2020		Wednesday November 4, 2020		Thursday November 5, 2020	
9:15 - 9:30	Welcome	Marcel OPRIS Andrei MARINESCU Alexandru MOREGA Sergiu NICOLAIE				
	Presidents: Octavian BALTAG and Ladislau MATEKOVITS		Presidents: Mircea POPESCU and Jaroslav LELÁK		Presidents: Alexandru MOREGA and Attila BONYÁR	
9:30 - 10:00	Keynote speech	Concerns regarding accurate determination of the human exposure due to the use of wireless communication devices emitting electromagnetic energy in 3G-4G+ standards Simona MICLAUS, Paul BECHET, Annamaria SARBU	Keynote speech	Evaluation of characteristics of electromagnetic field exposure of electrical substations workers by spot measurements and monitoring over time Jolanta KARPOWICZ, Krzysztof GRYZ	Keynote speech	Possibilities of unconventional constructions and use of these cables for various EMC-compliant applications J. LELÁK, J. SULOVA, O. VERBICH, R. VALACH, A. KMENT, M. PÍPA
10:00 - 10:30	Keynote speech	Biocompatible metallic alloys for implanted antennas Ladislau MATEKOVITS, Ildiko PETER	Keynote speech	Nanopackaging – relationship between electronics packaging and nanotechnology Attila BONYÁR	Keynote speech	Aspects regarding the tempest risks as materialization of the EMC vulnerabilities of IT&C equipment Mircea POPESCU, Jana PINTEA, Constantin PINTILIE
10:30 - 11:00	Keynote speech	Magnetic stimulation and therapy insights perceived through numerical experiments Alexandru MOREGA	Round table	Moderators: Andrei MARINESCU, Jolanta KARPOWICZ Alexandru MOREGA and Dan RUCINSCHI 5G Technology, a standard of the future - Harmful to humans and the environment?	Keynote speech	About acoustic fingerprint of some high frequency sources/devices Andrei MARINESCU
11:00 - 11:30	Keynote speech	Bioelectromagnetics – interactions Octavian BALTAG			Keynote speech	Metamaterials - new challenges for the 21-st century Elena HELEREA, Lia-Elena ACIU
11:30 - 12:00	Keynote speech	Advanced systems for electromagnetic shielding of enclosures and SE _{dB} determination of conductive materials vs. frequency Mihai BĂDIC, Aristofan TEIȘANU, Cristian MORĂRI			Keynote speech	Strategies for Europe with horizon 2050 framework Programme and electromagnetic compatibility Claudia Laurenta POPESCU, Mihai Octavian POPESCU

12:00 - 12:15	Presentation continues		Presentation continues		Presentation continues	
	Presidents: Andrei MARINESCU and Mihai BĂDIC		Presidents: Elena HELEREA and Mihai Octavian POPESCU		Presidents: Jolanta KARPOWICZ and Simona MICLĂUȘ	
12:15 – 12:30	Oral presentation	Proposed approach towards accurate assessment of electromagnetic near-field emitted by new generation of wireless communication devices (including 5G) Annamaria SÂRBU, Simona MICLĂUȘ	Oral presentation	Review on the interaction: human tissue - laser radiation 850nm from a bio-photometer C. RAVARIU, Ala BONDARCIUC, Georgeta ALECU	Oral presentation	Smart adjustable optical attenuator Ana NISTIRIUC, Victor ABABII, Andrei CHIHAI, Ion NISTIRIUC, Pavel NISTIRIUC
12:30 – 12:45	Oral presentation	Development of a concrete with magnetic properties to improve wireless energy transfer Andrei MARINESCU, Adrian VINTILA Tiberiu TUDORACHE	Oral presentation	New concepts aiming at biological connections and quantum in gemotherapy Didi SURCEL, Mihai SURCEL, Septimu TOADER	Oral presentation	Protection of computer systems by electromagnetic shielding Valentin VELICU, Alexandru BOITAN, Vlad BUTNARIU, Bogdan TRIP, Valentin IONITA
12:45 – 13:00	Oral presentation	Evaluation of wind energy potential onboard a container ship for a transatlantic route Dinu ATODIRESEI, Cosmin DIMA, Petrică POPOV, Vasile DOBREF, Florențiu DELIU, Alec TOMA	Oral presentation	Comparison between the continuous and discontinuous modulation techniques for the three-phase PFC Vienna rectifier Vlad Marius VOIAN, Mihaela-Codruta ANCUTI, Sorin MUSUROI, Ciprian SORANDARU, Marcus SVOBODA	Oral presentation	Study of the dynamic behavior of asynchronous motors by using a novel regenerative test bench Ion Cătălin SBURLAN, Emil TUDOR, Ionuț VASILE
13:00 – 13:15	Oral presentation	Inductive charging - a new challenge for electric power supply of maritime vessels Vlad MOCANU, Petrică POPOV, Vasile DOBREF, Florențiu DELIU	Oral presentation	Testing new methods for increasing electromagnetic shielding Viorica VOICU, Mircea-Emilian ARDELEANU, Dan Gabriel STĂNESCU, Paul Adrian NICOLEANU, Mihai Mădălin NEGOESCU	Oral presentation	About the electromagnetic compatibility of radio communication systems Ana NISTIRIUC, Victor ABABII, Andrei CHIHAI, Ion NISTIRIUC, Pavel NISTIRIUC

13:15 – 13:30	Oral presentation	Stability improvement of polypropylene sheets intended for the protection of metallic surfaces against oxidation Traian ZAHARESCU , Carmen MATEESCU , Andreea DIMA	Oral presentation	Electric bus platform for urban mobility Razvan PREJBEANU , Emil TUDOR , Andrei MARINESCU , Danut-Gabriel MARINESCU , Dan-Octavian NEAGU	Oral presentation	Naval analysis of an asynchronous machine in generator mode and electromagnetic brake Dumitru IORGULESCU , Gheorghe SAMOILESCU , Vasile SOLCANU , Cristian BARBULESCU
13:30 – 13:45	Oral presentation	Effective screen based on copper – magnetic composition of fluorosiloxane rubber Ana NISTIRIUC , Victor ABABIL , Andrei CHIHAI , Ion NISTIRIUC , Pavel NISTIRIUC	Oral presentation	Unequal-spacing arrangement of substation grounding systems Liviu NEAMT , Alina NEAMT , Olivian CHIVER , Cristinel COSTEA	Oral presentation	Smart prosumers in Romania Tiberiu Ioan SERBAN
13:45 – 14:00	Oral presentation	Study about the electric and magnetic field distribution in the vicinity of high voltage power lines Sergiu ANDREICA , Calin MUNTEANU , Marian GLIGA , Claudia PACURAR , Adina GIURGIUMAN , Claudia CONSTANTINESCU			Farewell and Closing	Sergiu NICOLAIE Andrei MARINESCU Alexandru MOREGA
POSTER PRESENTATIONS						
uploaded website CEM2020	Effects of elf electromagnetic fields on microorganisms from water treatments Csaba BARTHA , Monica JIPA , Alina-Ruxandra CARAMITU , Attila TÓKOS , Daniela-Maria IGNAT , Andreea VOINA , Iosif LINGVAY					
uploaded website CEM2020	Century fluorescent oxide nanoparticles for technical applications Gabriela GEORGESCU , Teodora MALAERU , Delia PATROI , Eros-Alexandru PATROI , Virgil MARINESCU					
uploaded website CEM2020	Insights into the susceptibility of coronaviruses to uv irradiation as effective disinfection option Carmen MATEESCU , Eduard-Marius LUNGULESCU					
uploaded website CEM2020	Iron oxide nanoparticles biocompatible for biomedical applications Teodora MALAERU , Gabriela GEORGESCU , Delia PATROI , Virgil MARINESCU					
uploaded website CEM2020	Experimental configurations for applying the electromagnetic field in the study of biological materials Andreea VOINA					