



Preliminary Program

General remarks

- Below these lines you will find the preliminary [List of Abstracts](#). These abstracts were accepted by the International Scientific Committee for presentation at the 3rd ICBEM and 1st Slo-CroMBE. Abstracts are ordered alphabetically by the FIRST AUTHOR'S last name. In the [Preliminary Time Schedule](#) you can find the approximate schedule for your presentation. We tried to respect your preferred type of presentation whenever it was possible.

- The List of Abstracts will be updated regularly as we receive the information from the agency ALBATROS Bled, which is taking care of registrations and hotel reservations. We would like to urge all participants who have not yet registered or sent the deposit to do so immediately in order to avoid omission of their abstracts from the Final Program and from the Proceedings of the 3rd ICBEM. If you have not yet made hotel reservation, do so soon too. There are enough rooms reserved in the three different hotels. However, the number of rooms available in each particular hotel is limited.

- The exact time schedule for presentation of individual abstracts will be available soon.

Instructions for authors

Platform presentations

- Authors of platform presentations will have 15 minutes to present their work (approximately 12 min presentation + 3 min discussion).

Posters

- The maximum dimensions of posters should be 95 cm wide by 160 cm high. Posters should be put up on Sunday afternoon. During poster viewing sessions posters should be manned by their authors.

Preliminary List of Abstracts (by the first author)

[PRELIMINARY PROGRAM](#)

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- [Preliminary Time Schedule](#)

Please check the REGISTRATION STATUS of your abstract. The following three options are possible in the Registration Status column:

- O.K.:** The PRESENTING AUTHOR as indicated on the Abstract Submission Form has already registered fully which means that the Registration Form and corresponding payment have been both received by ALBATROS Bled Tourist Agency.

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or

The registration fee was waived by the Organizers.

Deposit: The PRESENTING AUTHOR as indicated on the Abstract Submission Form has sent a deposit of EUR 50 but has not yet registered fully.

Due: Neither the deposit nor the registration fee has been received so far from the PRESENTING AUTHOR (see the following note).

IMPORTANT NOTE! Since several abstracts that we received were NOT equipped with the requested Abstract Submission Form or with all the needed data, it is possible that some abstracts have their registration status set to "Due" even though one of the co-authors actually did register, but we could not identify him/her as the presenting author. This can happen for example in cases where a particular author appears on several abstracts but is listed as the PRESENTING AUTHOR only on one of them and the presenting authors on the other abstracts did not register or send the deposit. PLEASE LET US KNOW IF THIS (OR A SIMILAR ONE) IS YOUR CASE!

Abstract ID	1st Author	Abstract title	Scientific Session	Presentation Type	Student Award Competition	Registration Status
8	Agostino Accardo	VI-EMA2: a device for the simultaneous recordings of eye movements and extraocular muscles electromyography	Technology and Devices	Poster		O.K.
112	S. M. Alavi	Preliminary results of a new method for non-invasive glucose measurement	Technology and Devices	Poster		Deposit
80	D. Asta	Modulated 900 MHz exposure condition characterization for the study on immune system of mice and preliminary results	EMF Health Risk Effects and Dosimetry	Platform		Deposit
25	Fabio Babiloni	Recognition of imagined hand movements by signal space projection and Fisher discriminant linear classifiers	Bioelectromagnetic Measurements	Poster		O.K.
24	Fabio Babiloni	Multimodal integration of high resolution EEG and functional magnetic resonance	Bioelectromagnetic Measurements	Platform	Yes	O.K.
22	L. Baratto	A new type of very low-power modulated laser device: soft-tissues changes induced in osteoarthritic patients revealed by sonographic examination	Soft Tissue and Bone Healing	Poster		O.K.
78	Katarina Beravs	Novel macromolecular contrast agents for dynamic contrast enhanced MRI	Technology and Devices	Platform	Yes	Due
20	Luis Bergues	Possible implication of reactive oxygen species, immune system and pH in electrochemical treatment	Soft Tissue and Bone Healing	Poster	Yes	Due
18	Luis Bergues	Effects of direct electric current in tumors treatment	Soft Tissue and Bone Healing	Poster	Yes	Due
114	Emanuela Bernani	An inverse scattering approach for the electric field prediction in biological bodies	EMF Health Risk Effects and Dosimetry	Platform		Deposit
119	Rok Bernard	Evaluation of an automated system for cell colony counting	Technology and Devices	Platform	Yes	O.K.
66	Luigi Bianchi	An object oriented approach to biofeedback applications for disabled people	Technology and Devices	Poster		O.K.
87	Manfred Bijak	Tricycle for paraplegic's: stimulation equipment	Electric and Magnetic Stimulation	Platform		O.K.
34	Martin Blank	Electromagnetic fields accelerate electron transfer reactions	Fundamental Mechanisms of EMF interactions	Platform		O.K.
116	Klemen Bohinc	Thickness of electric double layer. Effect of ion size.	Theory and Models	Platform	Yes	O.K.
63	Alicja Bortkiewicz	Late ventricular potentials in workers exposed to VHF electromagnetic fields (EMF)	EMF Health Risk Effects and Dosimetry	Poster		Deposit
3	Fathollah Bouzarjomehri	Frequency-dependend alteration of skin wound healing pulsed extremely low frequency electromagnetic fields	Soft Tissue and Bone Healing	Poster	Yes	Deposit
133	Henri M. Brugere	Effect of 50 Hz magnetic fields on lipid peroxidation of the rat kidney	Fundamental Mechanisms of EMF interactions	Poster		O.K.
26	Paolo Bruno	Do realistic head models need to include brain lesions for EEG inverse problem solution?	Theory and Models	Poster		O.K.
67	Febo Cincotti	Low resolution surface Laplacian computation for brain computer interface classifiers	Theory and Models	Poster		O.K.
129	David Cukjati	Accelerated healing of electrically stimulated chronic wounds	Soft Tissue and Bone Healing	Poster		O.K.

65	Cristina G. Dascalu	The utilization of clustering methods to identify the diagnosis in medical practice	Technology and Devices	Poster		Deposit
72	Hugo Dominguez	Analysis of fundamental limitations of electric-type hyperthermia applicators based on the TLM method	Technology and Devices	Platform		O.K.
42	F. Ebrahimi	The comparison of the H-reflex parameters in electrical stimulations of vertebral column and peripheral	Electric and Magnetic Stimulation	Poster		O.K.
99	Hannu Eskola	Waveform of EOG is dependent on the direction of movement	Bioelectromagnetic Measurements	Platform		O.K.
44	Stefan Finke	An evaluation of the reciprocal approach for computing scalp EEG potentials	Bioelectromagnetic Measurements	Platform		O.K.
64	Elzbieta Gadzicka	Late ventricular potentials in workers exposed to electromagnetic fields at frequencies 0.738 to 1.503 MHz	EMF Health Risk Effects and Dosimetry	Poster		Deposit
62	Peter Gajsek	Parametric dependence of Specific Absorption Rate (SAR) on permittivity of different biological tissues	EMF Health Risk Effects and Dosimetry	Platform		O.K.
98	Alexey N. Goltsov	Development of building materials for protection of human house from electromagnetic smoke	Technology and Devices	Poster		Due
35	Reba M. Goodman	Biologically based safety standards for cell phones: discriminating between heat and magnetic fields	Fundamental Mechanisms of EMF interactions	Platform		O.K.
111	A. Hedjiedj	Immunity of pacemakers at low frequency signals	Technology and Devices	Platform		Deposit
106	Ewa Herbst	Effects of various EMF on nerve regeneration in vitro	Soft Tissue and Bone Healing	Platform		O.K.
79	Teodora Ivanusa	Electric pulses induced changes in tumor blood flow: dynamic contrast-enhanced MRI study	Electroporation	Platform	Yes	Due
104	Tomaz Jarm	Correlation between results of different methods for measurement of blood perfusion and oxygenation changes in tumors after electrochemotherapy	Technology and Devices	Platform		O.K.
90	Vbjko Jazbinsek	Localization of dual preexcitation sites using electrocardiographic inverse solution	Bioelectromagnetic Measurements	Poster		O.K.
122	Masa Kanduser	Effect of polyoxyethylene surfactant C12E8 on electroporation of cell line DC3F	Electroporation	Poster		O.K.
38	Pasi Kaupinnen	Application of lead field theory and volume conductor modeling in the development of 12-lead impedance cardiography	Bioelectromagnetic Measurements	Platform		O.K.
1	Otar Khomeriki	Installation for compensation of geomagnetic storms in apartments for prophylaxis and rehabilitation of magnetolabile patients	Technology and Devices	Poster		Due
50	Natasa Knez	Modeling of skeletal muscle belly twitch response	Theory and Models	Platform		O.K.
100	Ilmari Konkka	Conductivity model of human stomach for electrogastrographic studies	Theory and Models	Poster		O.K.
137	Olaf Kosch	Impact of different anisotropic conductivity conditions on cardiac magnetic fields and electric potentials	Technology and Devices	Platform		O.K.
101	Tadej Kotnik	Evaluation of cell membrane electroporation by means of a nonpermeant cytotoxic agent	Electroporation	Platform	Yes	O.K.
115	Dubravko Kovacic	Testing of medical electrical equipment - ultrasonic therapy equipment (case study)	Technology and Devices	Platform	Yes	O.K.
121	Rudi Kragelj	Long-term effects of electrical stimulation on parameters of postocclusive reactive hyperemia in patients with peripheral vascular disease	Electric and Magnetic Stimulation	Platform		Due
97	Simona Kranjc	Electroporation increases radiosensitizing effect of cisplatin on LPB fibrosarcoma	Electroporation	Platform		O.K.
118	Dejan Krizaj	Analysis of AC current conduction through the human tooth	Bioelectromagnetic Measurements	Platform		O.K.
51	Ryszard Krzymiowski	Corelation of results of coronarographic examination and high-resolution vectorcardiography	Bioelectromagnetic Measurements	Platform		O.K.
52	Hiromi Kubota	Effects of 50 Hz, 14 mTrms circularly polarized magnetic field exposures on cytokine production of mouse macrophage	EMF Health Risk Effects and Dosimetry	Poster		O.K.
76	Jernej Kuzelicki	Influence of hip extensors and ankle plantar flexors stimulation on paraplegic person's standing-up	Electric and Magnetic Stimulation	Platform		O.K.
69	Sianette Kwee	Non-thermal effects of microwave fields on cell proliferation and heat-shock proteins	Fundamental Mechanisms of EMF interactions	Platform		O.K.
71	Paivi Laarne	Difference in single dipole localization of visual evoked potentials using two skull resistivity models	Bioelectromagnetic Measurements	Poster		O.K.
77	Juha Latikka	Method for measuring resistivities for intracranial tissues in vivo	Bioelectromagnetic Measurements	Platform	Yes	O.K.

23	Daniel Laubitz	The studies on the influence of intestinal myoelectrical activity-related electromagnetic field (EMF) on bacterial growth and protein profiles in <i>Escherichia coli</i> cells	Fundamental Mechanisms of EMF interactions	Poster	Yes	Deposit
4	Ying-Jie Lee	The measure of dimensional complexity in the EEG of schizophrenic patients	Bioelectromagnetic Measurements	Poster		Deposit
48	Bor-Shyh Lin	An effective method to measure evoked potential	Bioelectromagnetic Measurements	Poster		O.K.
17	Changjun Liu	Experimental study on low-intensity transient electromagnetic pulses induced pores on animal erythrocyte membrane	Electroporation	Poster		Deposit
11	Konstantin V. Lushnikov	The effect of extremely-high-frequency electromagnetic radiation on immunological indices in healthy mice under different exposure regimens	EMF Health Risk Effects and Dosimetry	Poster	Yes	O.K.
124	Myron K. MacDonald	Clinical experience with capacitively-coupled electric fields	Soft Tissue and Bone Healing	Platform		Deposit
117	F. Madec	Effects of 50-Hz magnetic fields on Ca ²⁺ oscillations in mouse pancreatic islets	Fundamental Mechanisms of EMF interactions	Platform		O.K.
5	Mahadevappa Manjunatha	Computerized analysis of erythrocyte concentration in complex microvascular network	Technology and Devices	Poster	Yes	O.K.
33	Marko S. Markov	New evidence for existence of biological windows	Fundamental Mechanisms of EMF interactions	Platform		O.K.
61	Kiril G. Markov	Influence of modulated uncharged-particle beams on the spontaneous brain activity	Fundamental Mechanisms of EMF interactions	Poster		Deposit
110	Takahide Matsuoka	Chaotic response of integral pulse frequency modulation and consideration on the auditory system	Theory and Models	Platform		O.K.
123	A. L. Mausset	GSM phones and nervous system in rats: quantification and localisation of neurotransmitters with immunohistochemistry and image analysis	EMF Health Risk Effects and Dosimetry	Poster		O.K.
37	Sergei Mazitov	On the method and the device for mechanical impedance measuring of human cervix uteri	Technology and Devices	Poster	Yes	O.K.
6	James H. Meritt	An attempt to replicate microwave effects on calcium efflux from chick brain	EMF Health Risk Effects and Dosimetry	Platform		Due
75	Roberto Merletti	Surface EMG detected with linear electrode arrays: a window on muscle features and force control strategies	Bioelectromagnetic Measurements	Invited		O.K.
102	Lluís M. Mir	Therapeutic perspectives of in vivo cell electroporation: electrochemotherapy and DNA electrotransfer for nonviral gene therapy	Electroporation	Platform		O.K.
7	Vojtech Msun	Impedance characteristics of the vocal tract soft tissues	Bioelectromagnetic Measurements	Poster		O.K.
57	Christopher H. Mueller	Project NEMESIS: double-blind study on effects of 50Hz EMF on physiological parameters during sleep in people suffering from electrical hypersensitivity	EMF Health Risk Effects and Dosimetry	Platform	Yes	O.K.
131	Erwin Neher	New perspectives on neurotransmitter release and synaptic short term plasticity	Invited	Invited		O.K.
135	Eberhard Neumann	Electrooptical and conductometrical relaxation techniques and the crossmembrane transport of genetic polyelectrolytes	Electroporation	Platform		O.K.
53	izumi Nishimura	Development of spontaneous leukemia in AKR mice exposed to 50 Hz, 350 microTms, circularly polarized magnetic field for 6 to 30 weeks	EMF Health Risk Effects and Dosimetry	Poster		O.K.
70	Richard Nuccitelli	Physiological DC electric fields in developing embryos and healing wounds	Soft Tissue and Bone Healing	Platform		O.K.
108	Pavla Obreza	Proprioceptive neuromuscular facilitation with electrical stimulation	Electric and Magnetic Stimulation	Platform		O.K.
132	Mojca Pavlin	Effective conductivity of cell suspensions	Theory and Models	Platform	Yes	O.K.
125	Bertil R.R. Persson	Studies of pulsed 900/1800 MHz RF-fields on the permeability of the blood-brain barrier in rats	EMF Health Risk Effects and Dosimetry	Poster		O.K.
126	Bertil R.R. Persson	Effects of microwaves exposure (GSM-900; CW 915 MHz) on ODC-activity and polyamine levels in mice and rats	Technology and Devices	Platform		O.K.
127	Bertil R.R. Persson	Radiation and electro-pulse treatment of N32 tumors of flank of rats	Electroporation	Poster		O.K.
128	Bertil R.R. Persson	Impedance spectrometry for measurement and controlling tissue effects of electric pulse treatment	Electroporation	Platform		O.K.
12	Arthur A. Pilla	Time-varying and static magnetic field therapeutics: from mechanisms to clinical applications	Theory and Models	Platform		O.K.
130	G. Pina	Temporal skin warming during exposure to cellular telephones	EMF Health Risk Effects and Dosimetry	Platform	Yes	O.K.

81	Rosanna Pinto	Comparison between SAR values induced in the head by cellular phones and hands-free kits	EMF Health Risk Effects and Dosimetry	Poster		Deposit
94	Matija Ponikvar	Adaptive modeling of electrically stimulated muscle using reference models	Electric and Magnetic Stimulation	Platform		O.K.
96	Tomislav Pribanic	Usefulness of double plane method for 3D reconstruction	Theory and Models	Platform	Yes	O.K.
140	Marko Puc	Pharmacokinetic model of transmembrane transport caused by electroporation	Theory and Models	Poster	Yes	O.K.
138	Gorazd Pucihar	The influence of conductivity of extracellular media on permeabilization and survival of the cells after electroporation	Electroporation	Poster	Yes	O.K.
86	Hanna-Greta Puurtinen	Dependency of the inverse ECG solutions on the number of electrodes - Effects of modelling error and measurement noise	Theory and Models	Poster		O.K.
89	Dietmar Rafolt	Functional electrical stimulation (FES) as a countermeasure against muscular atrophy in long-term space flights	Electric and Magnetic Stimulation	Platform		O.K.
30	Airton Ramos	Modelling the electric field and ionic charge distribution in biological tissue through the equivalent electric circuit method	Theory and Models	Platform		O.K.
113	Martina Rebersek	Electrochemotherapy with cisplatin of breast cancer tumour nodules in male patient	Electroporation	Poster	Yes	O.K.
73	James T. Ryaby	Combined magnetic fields reverse osteopenia and restore strength in a rodent model of osteoporosis	Fundamental Mechanisms of EMF interactions	Platform		O.K.
74	James T. Ryaby	Combined magnetic fields accelerate primary spine fusion: a prospective, double blind, randomized, placebo controlled clinical study.	Soft Tissue and Bone Healing	Platform		O.K.
43	N. Saeedi	The effects of tripolar precutaneous lumbar stimulation on the H-reflex recruitment curve	Electric and Magnetic Stimulation	Poster		O.K.
31	Jose L. Sebastian	Cell models and RF electric field absorption distribution	Theory and Models	Poster		O.K.
105	Igor Sersa	Treatment of in-stent restenosis by RF heating	Soft Tissue and Bone Healing	Poster		O.K.
95	Gregor Sersa	Tumor blood flow modifying and anti-vascular effect of electrochemotherapy	Electroporation	Platform		O.K.
14	Betty F. Sisken	Spinal cord explants in vitro: effects of static magnetic fields (SMF) and ara-C on neurite growth.	Soft Tissue and Bone Healing	Platform		O.K.
9	Alan Stimac	Acoustical evaluation of ultrasonic horns for an endoscopic contact ultrasonic probe	Technology and Devices	Platform		O.K.
59	Stoyan Stoytchev	Influences of the peripheral resistance and graft diameter on the wall shear stress near arterial anastomoses	Theory and Models	Poster		O.K.
2	Xiao Wei Sun	A computer-based acupuncture medical instrument	Technology and Devices	Poster		O.K.
16	Selma Supek	Numerical simulation studies on neuromagnetic source discrimination: when, where, and how many	Theory and Models	Platform		O.K.
120	Martin Tomsic	Electrically conductive and ferromagnetic nerve guide hinders regeneration of rat's sensory axons. Preliminary report.	Soft Tissue and Bone Healing	Poster		Deposit
15	Natasa Tozon	Electrochemotherapy: first treatment of mast cell tumour in a dog	Electroporation	Poster		O.K.
32	Lubomir Traikov	MMW pretreatment initiate protective effect in thylakoid membranes after adding of electron flow inhibitors	Fundamental Mechanisms of EMF interactions	Poster		Due
139	Katja Trontelj	Influence of vinblastine on electroporation of B16F1 cell line	Electroporation	Poster		O.K.
109	Ivancica Trosic	Is the macrophage multinucleation consequence of microwave irradiation	EMF Health Risk Effects and Dosimetry	Poster		O.K.
29	Viu Tuulik	The new analysing method for the surface EMG data	Bioelectromagnetic Measurements	Platform		O.K.
134	Shoogo Ueno	Recent advances in brain magnetics and tissue engineering	Electric and Magnetic Stimulation	Platform		O.K.
47	Gerard M.J. Van Leeuwen	Retrieval of brain temperatures from radiometric brightness temperature measurements using 3-D EM and thermal modelling	Bioelectromagnetic Measurements	Platform		O.K.
13	Bart Vanrumste	Localization errors due to noise versus localization errors due to the 3-shell spherical head model	Theory and Models	Poster	Yes	O.K.
27	Federica Vatta	Sensitivity of EEG source localisation to brain lesion conductivity as a method to improve source estimate position	Bioelectromagnetic Measurements	Poster	Yes	O.K.
83	Jan Vrba	Technical and clinical activities of microwave thermotherapy in Czech Republic	Technology and Devices	Poster		Due

84	Jan Vrba	Mcrowave applicators compatible "NMR"	Technology and Devices	Poster		Due
85	Jan Vrba	Mcrowave applicators for "BPH" treatment	Technology and Devices	Poster		Due
136	C. D. Williams	Therapeutic electromagnetic field effects on angiogenesis during tumor growth	Soft Tissue and Bone Healing	Poster		O.K.
10	Anna Wojcik	The intestinal myoelectrical activity-related electromagnetic field exposure of bacteria induces protection against subsequent UV254nm (UVC) irradiation	Fundamental Mechanisms of EMF interactions	Poster		Deposit

Preliminary Time Schedule

PRELIMINARY PROGRAM

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	SUNDAY <i>8 October 2000</i>	MONDAY <i>9 October 2000</i>	TUESDAY <i>10 October 2000</i>	WEDNESDAY <i>11 October 2000</i>	THURSDAY <i>12 October 2000</i>	
8:00		8:15-30 Opening Remarks 8:30-9:15 Invited Lecture (<i>Erwin Neher</i>)	8:30-9:00 Invited Lecture (<i>Roberto Merletti</i>)	8:30	8:30-10:15 <i>Electric and Magnetic Stimulation</i>	8:00
9:00		9:15-10:15 Official Photography, Toast	9:00-10:00 <i>Bioelectric Measur. I</i>	Buses depart from Grand Hotel Toplice		9:00
10:00		10:15-12:15 <i>Electroporation</i>	Poster Viewing Coffee Break		Coffee Break	10:00
11:00			11:00-12:15 <i>Bioelectric Measur. II</i>		10:45-12:00 <i>Technology and Devices II</i>	11:00
12:00				<i>Excursion to the Institut of Rehabilitation of the Republic of Slovenia in Ljubljana</i>		12:00
13:00		12:30-14:00 Lunch	12:30-14:00 Lunch	<i>Lunch</i>	12:30-14:00 Lunch	13:00
14:00		14:00-16:00 <i>Theory & Models</i>	14:00-15:30 <i>Fundamental Mechanisms of EMF Interactions</i>	<i>Trip to Postojna Caves</i>	14:00-16:00 <i>EMF Health Risk Effects and Dosimetry</i>	14:00
15:00			Poster Viewing Coffee Break			15:00
16:00		Poster Viewing Coffee Break	16:30-17:45 <i>Soft Tissue and Bone Healing</i>		(16:00-17:00) Results of Student Competition & Closing	16:00
17:00	17:00-20:00 Registration & Poster Mounting (Festival Hall)	17:00-17:45 <i>Technology and Devices I</i>	17:45-18:30 Poster Dismounting	Estimated time of return to Bled: 18:30		17:00
18:00		Free Evening			Free Evening	18:00
19:00				Free Evening		19:00
20:00	20:00-22:00 Get Together Party (Festival Hall)		20:00-23:00 Cocktail & Conference Banquet (Grand Hotel Toplice)			20:00
21:00						21:00

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