

Symposium 12: Electrochemical Engineering for Environmentally Friendly Processing and Environmental Protection

Organizers:

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Dear Participants of Symposium 12,

This year we had a great number of submissions, however, because of the limitations with delivering the program via online, we have reduced the number of presentations in our program.

I am happy to report that our symposium will take place via zoom (see instructions below) the following days and times:

Schedule times and dates:

Times	Belgrade	US Central	China
Wednesday (Sept 2, 2020)	2 to 4 pm	7:00 to 9:00 am	8:00 to 10:00 pm
Thursday (Sept 3, 2020)	2 to 4 pm	7:00 to 9:00 am	8:00 to 10:00 pm
Friday (Sept 4, 2020)	2 to 4 pm	7:00 to 9:00 am	8:00 to 10:00 pm

A schedule of your presentation is provided on Attachment A.

The zoom link and instructions are provided below. For security issues it is important that you do not forward and/or share this link with anybody. Only registered authors will be allowed to attend, so please make sure that your registration has been cleared with the ISE.

Please login into the zoom link at least 10 minutes before the start of the session.

Because of the time limitations, we will keep strict timing. Speakers should plan on leaving ~4 minutes for questions within the timeframe. Each day we will have a closing roundtable session (see schedule on Attachment A).

ZOOM INSTRUCTIONS

Topic: ISE Belgrade Symposium 12

Time: Sep 2, 2020 07:00 AM Central Time (US and Canada)

Join Zoom Meeting

Link will be available on the WebApp

ATTACHMENT A: SCHEDULE OF SESSIONS

Wednesday , september 2nd			
Belgrade Time	Presentation Number	Presentation Title	Authors
14:00-14:30	200359. Invited	Electrochemical systems for the treatment of contaminated water: limitations, challenges and prospective	Jelena Radjenovic ^{1,2} , Natalia Sergienko ^{1,3} , Nick Duinslaeger ^{1,3} , Giannis Florjan-Norra ^{1,3} , Luis Baptista-Pires ^{1,3}
14:30-14:50	201787	Continuous separation of ionic contaminants and particles from water by shock electro dialysis	Mohammad A. Alkhadra ¹ , Huanhuan Tian ¹ , Martin Z. Bazant ^{1,2,*}
14:50-15:10	202817	Capacitive Desalination with Sulfonated Nanoporous Carbon Electrodes	Yinke Chen ¹ , Eric N. Guyes ² , Charles E. Diesendruck ^{1,3} , and Matthew E. Suss ^{*1,2}
15:10-15:30	200341	Application of Ionic Rectification for Water Purification: Desalination with a Nafion Cationic Diode	Budi Riza Putra ^{1,2} , Frank Marken ^{1*}
15:30-15:50	200590	Micro-scale capacitive-faradaic fuel cells for ions separation from water	Youri Gendel [*] , Gidon Amikam, Paz Nativ, Naama Manor-Korin
15:50-16:00		round table for discussion	

Thursday, september 3rd			
Belgrade Time	Presentation Number	Presentation Title	Authors
14:00-14:30	201130. Invited	Electrochemical Decomposition of Ozone for the Treatment of Textile Wastewaters: a real case-study.	Elisabetta Petrucci, Irene Bavasso,
14:30-14:50	202995	Highly Energy-efficient Electrochemical Advanced Oxidation Processes Based on Natural Air Diffusion Electrode	Minghua Zhou [*] , Qizhan Zhang, Yanchun Li, Yawei Li
14:50-15:10	200861	Influence of Micrometric Inter-electrode Distances and Water Hardness on Mineral Scaling at the Electrode Surface during Electrochemical Advanced Oxidation Process	Faidzul Hakim ADNAN, Emmanuel MOUSSET, Marie-Noëlle PONS
15:10-15:30	200281	Two steps synthesis of D-glucaric acid by electrocatalytic oxidation of D-glucose on a gold electrode: influence of operational parameters	Giulia Moggia ^{1,2} , Jonathan Schalck ¹ , Nick Daems ^{1,2} , Tom Breugelmans ¹
15:30-15:50	200294	Modified Hydrocyclone as Electrochemical Reactor: Modelling, Characterization and Applications	A. N. Colli, J. P. Fornés, O. González Pérez, J. M. Bisang
15:50-16:00		round table for discussion	

Friday, september 4th			
Belgrade Time	Presentation Number	Presentation Title	Authors
14:00-14:30	202761. Invited	Sustainable electrocatalytic water treatment: Considering the use of earth-abundant materials for nitrate remediation	Ana S. Fajardo ^{a,b} , Paul Westerhoff ^a , Carlos M. Sanchez-Sanchez ^b and Sergi Garcia-Segura ^a
14:30-14:50	200093	Sustainable Electrochemical Metal Extraction from Waste Streams: From Removal to Recovery	Wei Jin
14:50-15:10	201137	Recycled silicon slicing slurries by carbon coating for lithium ion batteries	Jong Seok Kima [*] , Ik Tae Imb, Tae Hyun Kimc,
15:10-15:30	202980	Sewage Sludge Treatment by a Novel Electrochemical Technique	Maasoomeh Jafari, Gerardine G. Botte
15:30-15:50	203056	Environmental-electrosynthetic approach to produce selectively acetic acid from cashew-nut shell liquid waste by using non-active electrode	Mateus C. Medeiros ^a , Elisama V. dos Santos ^b , Djalma R. da Silva ^a , Suely S. L. Castro ^c , Carlos A. Martínez-Huitle ^{a,d} ,
15:50-16:00		round table for discussion	