

# The 68<sup>th</sup> Annual Meeting of the International Society of Electrochemistry

## Electrochemistry without Borders

27 August to 1 September, 2017, Providence, RI, USA

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International Society of Electrochemistry, chemin du Closelet 2, 1006 Lausanne, Switzerland

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## Electrochimica Acta Travel Awards for Young Electrochemists 2017

Federico Bella, Torino, Italy

Nadim Darwish, Perth, Australia

Sergi Garcia-Segura, Tempe, USA

## ISE Travel Awards for Young Electrochemists 2017

Dominic Bresser, Ulm, Germany

Veronica Celorrio, Bristol, UK

Ruud Kortlever, Pasadena, USA

Jilei Liu, Singapore, Singapore

Ross Milton, Salt Lake City, USA

Hwa Yoon, Berkeley, USA

Aleksandar Zeradjanin, Erlangen, Germany

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### Poster presentation session 1 - Monday

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Symposia: s1, s2, s3, s4, s5, s8, s9

Poster set-up Monday: 08:30-10:30 *See poster locations map on page 174*

**Poster Presentation: Monday, 28 August 2017: 10:45-12:45**

**(Ballroom D+E, 5th Floor)**

Poster take-down Monday: 18:00-19:00

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### Poster presentation session 2 - Tuesday

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Symposia: s7, s11, s12, s13, s14, s16, s18

Poster set-up Tuesday: 08:30-10:30 *See poster locations map on page 174*

**Poster Presentation: Tuesday, 29 August 2017: 10:45-12:45**

**(Ballroom D+E, 5th Floor)**

Poster take-down Tuesday: 18:00-19:00

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### Poster presentation session 3 - Wednesday

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Symposia: s06, s10, s15, s17, s19

Poster set-up Wednesday: 08:30-10:30 *See poster locations map on page 174*

**Poster Presentation: Wednesday, 30 August 2017: 10:45-12:45**

**(Ballroom D+E, 5th Floor)**

Poster take-down Thursday: 12:00-14:00

## Mathematical modelling of electrochemical systems

S12-032

**Fan He** (*Chemical Engineering, Massachusetts Institute of Technology, Cambridge, USA*), Xiao Su, Martin Bazant, T. Alan Hatton

Simulation of electrochemical adsorption system for water treatment

## Safe water

S12-033

**Yinying Ren** (*Department of Chemical Engineering, Massachusetts Institute of Technology, Cambridge, USA*), Xianwen Mao, Wenda Tian, De Xin Chen, Sarah Curtis, Marjorie Buss, Gregory Rutledge, T. Alan Hatton

Electrochemically Tunable Affinity Separation with High Energetic Efficiencies for the Removal of Organic Pollutants from Water

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## S13 The Green Potential of Molecular Electrochemistry

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### Biomass

S13-001

**Christophe Coutanceau** (*IC2MP, University of Poitiers, Poitiers, France*), Jesus Gonzalez-Cobos, Stève Baranton

Development of Bismuth-Modified Pt Nanocatalysts for the Electrochemical Reforming of Polyols into Hydrogen and Low Oxidized C3 Species

### Electrosynthesis

S13-002

**Roel Bisselink** (*Functional Ingredients, TNO, Zeist, Netherlands*)

Electrosynthesis of valeric acid

S13-003

**Roman Latsuzbaia** (*Sustainable Process and Energy Systems, TNO, Delft, Netherlands*), Roel Bisselink, Marc Crockatt, Mark Roelands, Earl Goetheer

Electrochemical synthesis of furandicarboxylic acid

S13-004

**Maximilian Selt** (*Institute of Organic Chemistry, Johannes Gutenberg University, Mainz, Germany*), Stamo Mentizi, Siegfried Waldvogel

New Methods for the Electrochemical Synthesis of 3,3,5,5-Tetramethyl-2,2-biphenol

### Green catalysts

S13-005

**Binbin Huang** (*Environmental Science and Engineering, Hunan University, Changsha, China*)

Effective and simultaneous removal of humic acids and Cr(VI) by electro-Fenton with H<sub>2</sub>O<sub>2</sub> in-situ electro-generated on Pd loaded Fe<sub>3</sub>O<sub>4</sub> nanoparticles

### Green solvents and electrolytes

S13-006

**Patrizia Romana Mussini** (*Dipartimento di Chimica, Università degli Studi di Milano, Milano, Italy*), Serena Arnaboldi, Simona Rizzo, Voichita Mihali, Armando Gennaro, Abdirisak Ahmed Isse, Sannicolò Francesco

“Inherently Chiral” Ionic Liquid Media: Enantioselective Voltammetry on Achiral Electrodes