

Suzdal, Russia

September 15 – 18, 2016

1<sup>st</sup> International Conference of Young Scientists  
“TOPICAL PROBLEMS OF MODERN  
ELECTROCHEMISTRY AND ELECTROCHEMICAL  
MATERIALS SCIENCE”

**Skoltech**

Skolkovo Institute of Science and Technology



**CONFERENCE PROGRAM**



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## Thursday, September 15

- 12.00 – 16.00 – Registration  
16.00 – 16.15 – Opening (K. Stevenson)  
16.15 – 17.00 – J.-M. Tarascon (Collège de France, Paris)  
From Volta to Li-ion and beyond  
17.00 – 17.45 – E.V. Antipov (Moscow State University)  
Crystal chemistry of battery materials  
17.45 – 18.00 – Coffee break  
18.00 – 18.45 – K. Stevenson (CEE CREI, Skoltech)  
Fundamentals of electron transfer in electrochemical reactions  
18.45 – 19.30 – Yu. Dobrovolskii (Institute of Solid State Physics RAS)  
Low temperature electrochemical devices  
19.30 – 20.30 – Dinner

## Friday, September 16

- 09.00 – 10.00 – Breakfast  
10.00 – 11.00 – Y. Shao-Horn (Massachusetts Institute of Technology, USA).  
Materials for energy conversion  
11.00 – 12.00 – E.R. Savinova (University of Strasbourg)  
Theory and mechanisms of electrocatalysis  
12.00 – 12.15 – coffee break  
12.15 – 13.15 – G.A. Tsirlina (Moscow State University)  
Electrodeposition kinetics for metals, alloys and compounds  
13.15 – 14.45 – lunch  
14.45 – 15.45 – D. Itkis (Moscow State University)  
Advanced characterization techniques for electrode materials  
15.45 – 16.45 – S. Fedotov (tutorial) (CEE CREI, Skoltech)  
Crystal chemistry approaches toward design of cathode materials for rechargeable batteries  
17.00 – 19.00 – Poster session  
19.30 – 20.30 – Dinner

## Saturday, September 17

- 09.00 – 10.00 – Breakfast  
10.00 – 11.00 – J.-M. Tarascon (Collège de France, Paris)  
The richness of Li electrochemistry: insertion, conversion, alloying and displacement reactions  
11.00 – 12.00 – A.M. Abakumov (CEE CREI, Skoltech)  
Transmission electron microscopy for catalysts and battery electrodes  
12.00 – 12.15 – Coffee break  
12.15 – 13.15 – K. Stevenson (CEE CREI, Skoltech)  
Organic Electrode Materials for Redox-Flow and Rechargeable Batteries  
13.15 – 14.45 – lunch  
14.45 – 15.45 – A. Ivanishev (CEE CREI, Skoltech)  
Modern electrochemical methods of kinetic studies of the Li-ion transport in intercalation compounds  
15.45 – 16.45 – V. Nikitina (tutorial) (CEE CREI, Skoltech)  
Cyclic voltammetry of intercalation systems: investigation of the kinetic regimes  
16.45 – 17.00 – Coffee break  
17.00 – 18.00 – S. Luchkin (tutorial) (CEE CREI, Skoltech)  
Scanning probe microscopy for Li-ion batteries  
18.00 – 19.00 – Dinner

## Sunday, September 18

- 8.00 – 9.00 – Breakfast  
9.00 – Departure to Moscow

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<http://crei.skoltech.ru/cee/conference-of-young-scientists-2016/>