

## Regional Reports 2018

Regional Section	Report
Argentina:	YES
Australia-New Zealand	
Austria:	YES
Belgium:	Yes
Brazil:	YES
Bulgaria:	
Canada:	
Caribbean Region	
Chile:	YES
China:	YES
Croatia:	YES
Czech Republic	YES
Denmark:	YES
Estonia:	YES
Finland:	YES
France:	YES
Germany:	YES
Greece:	YES
Hungary:	YES
India:	YES
Iran:	YES
Ireland:	YES
Israel:	YES
Italy:	YES
Japan:	YES
Korea:	YES
Lithuania:	YES
Mexico:	YES
Netherlands:	
Norway:	
Poland:	
Portugal:	YES
Romania:	YES
Russia:	YES
Serbia:	YES
South Africa:	YES
Spain:	YES
Sweden:	YES
Switzerland:	YES
Taiwan:	YES
Turkey:	
Ukraine:	
United Kingdom:	YES
USA:	YES

Córdoba, August 5th 2018

International Society of Electrochemistry  
Annual ISE report of Argentina – 2018

- Currently there are 52 ISE members in Argentina (July 2018)
- A selection of papers from the **20th Topical Meeting of the International Society of Electrochemistry, 19-22 March 2017, Buenos Aires, Argentina** was collected into a *Virtual Special Issue of Electrochimica Acta* edited by **Agustin E. Bolzan, Deborah Jones, myself** (Guest Editors) and **Sergio Trasatti** (Special Issues Editor), and published in "ScienceDirect". This was published on 23 February 2018, and is accessible in the link:  
<https://www.sciencedirect.com/journal/electrochimica-acta/special-issue/10THBWQ227W>
- During the inauguration and closing ceremony of the congress of the Ibero-American Electrochemical Society (SIBAE) 3-8 June, Cuzco, Perú, Agustin Bolzan made a presentation of the ISE to all attendees to disseminate the activities of the ISE and promote the formation of new partners.
- Nine Argentinian scientist will be attending the 69<sup>th</sup> ISE Meeting in Bologna.
- With part of the funds obtained by Argentina form the organization of the Topical Meeting 2017 and in order to promote the participation of young researchers(members of the ISE) from our country to the 69<sup>th</sup> ISE Meeting , we launched a contest. The financial aids were awarded to two females and one male.



Ezequiel P.M. Leiva  
Profesor Titular Plenario DE  
Investigador Superior CONICET  
UNIVERSIDAD NACIONAL DE CORDOBA  
cel:+54-9- 351-7075570  
eze\_leiva@yahoo.com.ar eleiva@fcq.unc.edu.ar

**Institute for  
Chemistry and Technology of Materials**

Assoc. Prof. Dipl.-Chem. Dr. rer. nat.  
Bernhard Gollas

Stremayrgasse 9  
8010 Graz

Tel: +43 (0) 316 873-32338  
Fax: +43 (0) 316 873-1032338

bernhard.gollas@tugraz.at  
www.tugraz.at/institute/ictm/research/  
gollas-group/

DVR: 008 1833

UID: ATU 574 77 929

Graz, 2018-07-27

## Report of the ISE Regional Representative for Austria 2018

### Membership

The number of Austrian ISE members has decreased from 35 in July 2017 to 31 at the time of this report.

### Activities

During a meeting at the Austrian Chemistry Days in Salzburg on September 25<sup>th</sup> 2017, scientists working in the field of electrochemistry in Austria have discussed measures to better network themselves on a national level. It was proposed to found a working party "Electrochemistry" within the Division "Physical Chemistry" of the Austrian Chemical Society (GÖCh). For a better visibility and because not all of the colleagues working on electrochemical topics consider themselves physical chemists, it was proposed also to rename the Division as "Physical Chemistry & Electrochemistry". The members of the Division and the Executive Committee of the Austrian Chemical Society accepted these proposals in February 2018.

After this consolidation of the Austrian electrochemistry community and an invitation of the Scientific Meetings Committee of the ISE, Julia Kunze-Liebhäuser (Innsbruck University) submitted a proposal to hold the Annual Meeting 2023 in Innsbruck/Austria. Unfortunately, the proposal was not successful, because the venue was considered to lack the minimum number of appropriately sized meeting rooms for this event.

The biannual meeting of the Division "Physical Chemistry & Electrochemistry" was held in Graz on May 16<sup>th</sup> & 17<sup>th</sup> 2018, where the majority of contributions dealt with electrochemistry. The [11<sup>th</sup> International Summer School on Polymer Electrolyte Fuel Cells](#), jointly organized by Yokohama National University and Graz University of Technology, will take place in Graz from August 21<sup>st</sup> to 25<sup>th</sup>, 2018. The [3<sup>rd</sup> Graz Battery Days](#), staged in the Kunsthaus Graz from September 24<sup>th</sup> to 26<sup>th</sup> 2018, will feature contributions on various battery related topics including "Cost Effective Li-Battery Production Methods - Materials, Cells and Packs".

Finally, it has just been announced that our colleague Stefan Freunberger (Graz University of Technology) has been awarded the Tajima Price 2018 of the ISE.

Dr. Bernhard Gollas

Tom Breugelmans

Faculty of Applied Engineering

Campus Drie Eiken  
Universiteitsplein 1  
2610 Wilrijk - Belgium

tom.breugelmans@uantwerp.be

DATE  
16 August 2018

SUBJECT  
**ISE Report from the Belgian Regional Representative prepared for  
the 69<sup>th</sup> Annual Meeting of ISE in Bologna, Italy**

## Members

Since 2011, the number of members is at least 40. The last years, this number has increased with currently 58 active persons registered as Belgian members. This is a very stable number, which hasn't changed in the past few years.

The interest and evolution in comparison to 2016 of the Belgian members in the different divisions is given here:

- Division 1: Analytical Electrochemistry: from 21 members to **15 members**
- Division 2: Bio-electrochemistry: from 18 members to **11 members**
- Division 3: Electrochemical Energy Conversion And Storage: from 26 members to **26 members**
- Division 4: Electrochemical Materials Science: from 27 members to **33 members**
- Division 5: Electrochemical Process Engineering And Technology: from 21 members to **24 members**
- Division 6: Molecular Electrochemistry: from 10 members to **8 members**
- Division 7: Physical Electrochemistry: from 18 members to **15 members**

## Activities

1. Each year, the Dutch and Belgian electrochemistry community gathers for the annual meeting of the working group on electrochemistry of the Koninklijke Nederlandse Chemische Vereniging (KNCV). This one day symposium, which benefits from financial support from the ISE provides a common meeting ground for fundamental and applied electrochemistry experts from both countries.

In 2016, the symposium, on the theme of Electrochemistry for quality of life, was held at the Delft University of Technology, the Netherlands and the theme was *Electroanalysis*. In 2018, the meeting

was held in Ghent (UGent), Belgium and the topic was 'Electrochemical CO<sub>2</sub> reduction'.  
A presentation about the ISE and its activities is always given at this meeting.

2. The third **Summer Meeting On Bio-Electrochemistry (SMOBE-2018)**, will be held from **22 to 24 August 2018** in Antwerp, Belgium.

Yours Sincerely,

A handwritten signature in blue ink, consisting of a stylized, elongated shape with a small loop and a horizontal line extending to the right.

Prof. Tom Breugelmans

## Report of the ISE Regional Representative of Brazil - 2018

### A – Membership

The number of ISE members has grown from 62 in December 2011 to 90 in July 2012. It has reached 110 members in July 2013, 107 in July 2014, with peaks of 120 in September 2015, and 119 in August 2016. After this, it decreased to 83 in July 2017, and remained with 83 members in July 2018.

### B - Activities

Forthcoming meetings:

The Brazilian Society of Electrochemistry and Electroanalytical Chemistry (SBEE) will promote the 1<sup>st</sup> Meeting of the Brazilian Society of Electrochemistry and Electroanalytical Chemistry. The conference will cover topics related to advanced electrochemical oxidation technology, electroanalysis, energy conversion and storage and sustainable technologies. During the meeting, there will be specific activities reserved to student participation. The poster sessions will aim to motivate the interaction of Brazilian students with experts in the field of electrochemistry. The plenary lecturers are: Prof. Mehmet A. Oturan (*Université Paris-Est, Laboratoire Géomatériaux et Environnement*), Prof. Dr. Fabio H. B. Lima (*Instituto de Química de São Carlos – USP, Brasil*), and Prof. Dr. Romeu C. Rocha Filho (*Departamento de Química – UFSCar, Brasil*).

The Amatore International Symposium, a symposium in honor of the distinguished work and lifetime achievements of Prof. Christian Amatore, will be held as a division of the 2018 - Sustainable Industrial Processing Summit & Exhibition (ISE sponsored meeting) in 4 – 7 November 2018, in Rio de Janeiro, Brazil. A round table discussion open to researchers will be organized during the symposium. This will allow high level representatives of various industries, technologies, and academic disciplines to discuss and debate all topics of this symposium and identify possible research and development pathways towards a future industry with increased sustainability.

The third scientific meeting that will take place in Brazil is the “*XXII Simpósio Brasileiro de Eletroquímica e Eletroanalítica*”. This traditional meeting (22<sup>nd</sup> edition) will be held in Ribeirão Preto, SP. The conference will accept research studies on the traditional and the new areas of electrochemistry as described within the ten Divisions of the Electrochemical and Electroanalytical Brazilian Society: from molecular and interfacial electrochemistry to power sources and energy conversion, sensors and environmental electrochemistry, and industrial processes. The main topics can be arranged in Electrocatalysis, Environmental Electrochemistry, Electrochemistry of Nanostructured Materials, Fundamental Electrochemistry, and Bioelectrochemistry, Energy Conversion, Electrochemical Materials and Processes, Sensors and Biosensors, Surface Treatment, and Corrosion and Passivation. This symposium will have plenary lecturers, keynote presentations, and poster sessions.

Sincerely yours,

Fabio H. B. Lima

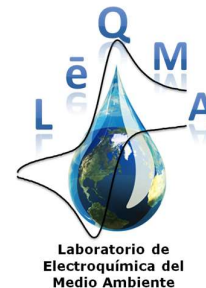
Institute of Chemistry of São Carlos

University of Sao Paulo POBox 780, CEP: 13560-970 São Carlos, SP, Brazil

fabiohbl@iqsc.usp.br



**Universidad Santiago de Chile**  
**Facultad de Química y Biología**  
**Laboratorio de Electroquímica del Medio Ambiente**  
**Departamento de Química de los Materiales**



ALAMEDA LIBERTADOR BERNARDO  
O'HIGGINS 3363 - CASILLA 40  
SANTIAGO 1 - CHILE

FONO: 56 (2) 718 1178  
56 (9) 9 334 1853

Prof. Ricardo Salazar González  
e-mail: ricardo.salazar@usach.cl  
Profesor Asociado

**International Society of Electrochemistry**

**Annual ISE report of Chile – 2018**

- 1.- Currently, there are 36 ISE members in Chile (July, 2018).
- 2.- In January 2018, was realized the Fifth Summer School of Electrochemistry in the University of Santiago of Chile, were 40 students from Chile and Latin-America participated in class and laboratories. The lectures were given by professors of different Universities of Chile, and laboratories were given by young professors, postdocs and PhD students. Sponsors: ISE, DEQ & SChQ, and Agencias RubioyGras (CHInstrument).
- 3.- Chilean community has a new winner of the ISE-Elsevier Prize for Green Electrochemistry: Dr. Abdoulaye Thiam, researcher of the Universidad Tecnológica Metropolitana de Santiago. He will present his work in Bologna.
- 4.- This year my work as Regional Representative ends. The Chilean electrochemical community must choose a new RR.

**Ricardo Salazar González**  
**Regional Representative of Chile**

26<sup>th</sup> July, 2018

**Dr. Ricardo Salazar González**  
**Profesor Asociado**  
**Facultad de Química y Biología**  
**Universidad de Santiago de Chile.**

July 30, 2018

## Annual ISE report of China (2018)

### Members:

ISE Regional of China actively encourages the Chinese scientists in the field of the electrochemistry and the relative fields to become the ISE member through the website of CSE (the Chinese Society of Electrochemistry) and WeChat. The current number of ISE members in China is 278.

### Activities:

ISE regional group organized the 19<sup>th</sup> National Electrochemistry Conference of China in Shanghai on 1<sup>st</sup>-4<sup>th</sup>, December, 2017. More than 2700 participants will attend this meeting. CSE and ECS also organized an “International Symposium on Energy & Environment” paralleled with the national session.

ISE regional group also organized two symposiums during the 31<sup>st</sup> Chinese Chemical Society Meeting held in Hangzhou on May 5-8, 2018. Symposium 1 focus on chemical power sources. The topic is Materials for high-efficiency electrochemical energy conversion. We received 280 abstracts and arranged 72 oral presentations and 170 poster presentations. More than 400 attendees joined the symposium. Symposium 2 is Fuel Cells and Electrocatalysis, the topic is effective strategies in search of electrocatalysts to break the bottleneck facing practical applications of fuel cells. We received 270 abstracts and arranged 61 oral presentations and 180 poster presentations. More than 380 attendees joined the symposium.

Prof. Zhong-Qun Tian in Xiamen University servers as President Elect, Prof. Yongyao Xia in Fudan University is the Chair Elect of the New Topics Committee, and Prof. Ling Zhuang in Wuhan University is the Vice-Chair of the Division 7 Physical Electrochemistry. Dr. Wei Jin in Jiangnan University and Dr. Zexing Wu in Qingdao University of Science & Technology are received ISE Travel Awards for Young Electrochemists for 69<sup>th</sup> Annual Meeting of the International Society of Electrochemistry in Bologna, Italy.

ISE regional group also actively encouraged the Chinese scientists to attend the 68<sup>th</sup> ISE Annual Meeting, in Providence, Rhode Island, USA. More than 150 participants from China attended the meeting.

A handwritten signature in black ink, appearing to read 'Yongyao Xia'.

Yongyao Xia, ISE Regional Representative of China





University of Zagreb  
Faculty of Chemical  
Engineering and Technology



Zagreb, August 1<sup>st</sup>, 2018

Dr. sc. Marijana Kraljić Roković  
University of Zagreb  
Faculty of Chemical Engineering and  
Technology  
Department of Electrochemistry  
Phone: +385 1 4597 112  
E-mail: mkralj@fkit.hr

## ISE - ANNUAL REPORT FOR CROATIA 2017/2018

### Membership

The current number of ISE members in Croatia is 22. Since last report the number has decreased by three.

### Activities

1. Two members from Croatia will actively participated at 69<sup>th</sup> Annual Meeting of the International Society of Electrochemistry in Bologna ( Italy).
2. Our member, Marijana Kraljić Roković, Faculty of Chemical Engineering and Technology, University of Zagreb , participated at Meetings of the Electrochemical Division of the Serbian Chemical Society with lecture "Graphene production by electrochemical exfoliation of graphite" (December 2017).
3. In February 2018 some members actively participated in Open Doors Days organised by Faculty of Chemical Engineering and Technology, University of Zagreb, where Laboratory of Electrochemistry was presented to the public and to the future students. ([https://www.fkit.unizg.hr/najave\\_kongresa?@=2oynya](https://www.fkit.unizg.hr/najave_kongresa?@=2oynya))
4. In May 2018 some members actively participated in Open Doors Days organised by Ruđer Bosković Institute, Zagreb. (<https://www.irb.hr/Dogadanja/Na-Institutu/Otvoreni-dani-IRB-a>)



4. Five members participated at XII Meeting of Young Chemical Engineers in Zagreb (Croatia) with poster presentations (February 2018).

6. Joint 5<sup>th</sup> Day of Electrochemistry and 8<sup>th</sup> ISE Satellite Student Regional Symposium on Electrochemistry took place at Ruđer Bošković Institute (May 2018) ([https://www.hdki.hr/hdki/skupovi/dan\\_elektrokemije](https://www.hdki.hr/hdki/skupovi/dan_elektrokemije)). 20 participants took part in poster presentations of 5<sup>th</sup> Day of Electrochemistry and 21 participants (young scientists, PhD students and undergraduate students) took part in oral presentations of 8<sup>th</sup> ISE Satellite Student Regional Symposium on Electrochemistry. The Student Regional Symposium was supported by ISE. Students from Slovenia and Bosnia and Herzegovina participated in this Meeting.

A handwritten signature in blue ink, appearing to read 'M. Kraljić'.

Marijana Kraljić Roković  
ISE-RR of Croatia



Miroslav Fojta  
Institute of Biophysics of the CAS  
Kralovopolska 135, CZ-612 65, Brno, Czech Republic  
Tel: +420 541 517 197  
E-mail: [fojta@ibp.cz](mailto:fojta@ibp.cz)

July 30, 2018

## **REPORT 2018 of the ISE Regional Representative – Czech Republic**

### **Membership**

Current status of the membership from the Czech Republic is 52 members (according to the members directory). Since 2012 the number of ISE members from the Czech Republic never decreased below 40, typically it was oscillating around 45 with a maximum in 2015 (52) which has been re-attained in 2018 again. PhD students have been an important target group for 2018. Recruitment of new ISE members and/or membership renewal has naturally been attempted during national conferences or international conferences organized in the Czech Republic, particularly those sponsored by the ISE (see below).

### **Activities**

Main activities in 2018 have been connected with organizing of three sponsored international electrochemical meetings:

#### **Modern Electrochemical Methods XXXVIII**

21-25 May 2018, Jetrichovice, Czech Republic; Contact: Tomáš Navrátil

#### **Bioelectrochemistry and Bioelectronics of Macromolecules**

12-15 June 2018, Brno, Czech Republic; Contact: Miroslav Fojta

#### **19<sup>th</sup> Advanced Batteries, Accumulators and Fuel Cells (ABAF),**

26-28 August 2018, Brno, Czech Republic; Contact: Jiří Vondrak

These meetings provided/will provide a good opportunity for students to learn more about the ISE society, as well as membership advantages and benefits.

ISE activities (forthcoming meetings, membership issues etc.) have been announced by the RR as well as other ISE members not only at the above sponsored meetings, but also at other meeting and seminars organized by the Czech electrochemical and analytical chemistry community.

Prepared by:  
Miroslav Fojta  
Regional Representative  
Czech Republic

15. Aug 2018

### **ISE Annual report 2018 (Denmark)**

#### **Membership:**

The number of Danish members 2018 is 39, mainly from the Technical University of Denmark, Copenhagen University and Aarhus University. There is however a potential for more members as there are many activities within electrochemistry and strong centers.

#### **Activities:**

There were several contributing, invited and keynote talks and posters at the annual meeting in Providence 2017.

In Bologna 2018 there is also Danish contributions. Maria Escudero Escribano from Copenhagen University is active in Division 7 and she is co-organizer of Symposium 17 'Physical Electrochemistry: Recent Developments in Spectroscopy, Microscopy and Theory for the Rational Design of Electrochemical Interfaces'.

Sincerely,



Ph.D. Jan Rossmeisl,  
Professor  
Department of Chemistry, University of Copenhagen.  
Universitetsparken 5, 2100, København Ø  
jan.rossmeisl@chem.ku.dk



## ISE REPORT 2018

### ISE Membership

By the date of reporting there are 38 ISE members in Estonia, increased by 7 since the last report (August 2017).

Young scientists are continuously encouraged to become part of the International Society of Electrochemistry community.

### Organization of conference

The members of the Estonian ISE community organizing the **7th Baltic Electrochemistry Conference: Finding New Inspiration** (BEChem 2018) which will be held in **Tartu, Estonia** on **November 4-7, 2018** (<http://bechem2018.ut.ee/home-o>).

### Other activities and participating conferences

ISE members of Estonia have been actively participating worldwide in several conferences and workshops. Young students and scientists have been contributing with talks (invited), publishing scientific papers and popularizing the research results locally as well as abroad to various communities.

My sincerest apologies for not be able to attend myself the ISE meeting in Bologna.

Eneli Härk, PhD  
ISE Regional Representative of Estonia  
Institute of Chemistry  
University of Tartu  
Ravila 14a, 50411 Tartu  
Tel. +372 513 1425  
[eneli.hark@ut.ee](mailto:eneli.hark@ut.ee)

Tartu, August 2018

## ISE REPORT 2018 from the Regional Representative Finland

### Members

The number of ISE members within Finland is currently 21 – which is approximately the same as the previous year. This change is a result of two key factors in that there has been a number of members who have retired or left (particularly at the Post-Doctoral level) to pursue new career opportunities outside of the Finnish region and that in recent years there has been a reduction in the level of national funding available for research. It is anticipated however, that this number will begin to increase over the next year as at least two senior research/professor-level positions in electrochemically related areas have been created and appointed within the last 6 months.

### Activities

Members have been active at a number of electrochemical conferences worldwide in the last 12 months including the 22<sup>nd</sup> Topical Meeting in Tokyo, Japan, ECS meeting in Seattle and the Nordic Battery Conference (Nordbatt 2017). In addition, Prof. Murtomäki (Chair of Physical Chemistry and Electrochemistry, Aalto University) has been actively involved in the scientific committee of the forthcoming [7<sup>th</sup> Baltic Electrochemistry Conference \(BEC'18\)](#) to be held in Tartu, Estonia between November 4-7, 2018.

This year also saw the inaugural award of the ISE Finnish Region's Travel Bursary to attend the ISE Annual Meeting, which is provided from the dividends of the 6<sup>th</sup> BEC in Helsinki. After careful consideration of all the applications this was presented to Fatemeh Davodi from the Electrochemical Energy Conversion Group of Aalto University for her abstract entitled "*Ni@γ-Fe<sub>2</sub>O<sub>3</sub> core-shell nanoparticles supported on Nitrogen functionalized carbon nanotubes for the efficient electrocatalytic water oxidation*".

### Future Plans

It is planned to undertake a membership drive that targets Professors in areas based on electrochemistry (like energy materials and conversion, hydrometallurgy etc.) - and in particular their younger researchers. This will be achieved by a broader promotion of the Finnish Region's Travel Bursary (see above) beyond the current membership list.

I will also be attending the ISE meeting in Bologna and look forward to joining the Regional Representative get-together to discuss with other national ISE representatives.



Dr. Ben Wilson, Regional Representative, Finland ([ben.wilson@aalto.fi](mailto:ben.wilson@aalto.fi))



Université de Lille  
Institut d'Electronique, de Microélectronique et de Nanotechnologie (IEMN-UMR CNRS  
8520)

## ISE ANNUAL REPORT 2018 FRANCE

### ISE Membership

The number of ISE members within France is currently 231, which is a slight decrease to the previous years (260 members in 2016, 265 members in 2015, 233 members in 2014).

### Activities

#### 1. 8<sup>th</sup> meeting of Electrochemistry in Nanoscience ([www.elecnano.fr](http://www.elecnano.fr))

**Dates:** 29-31 May 2018

**Location:** Nancy

**Organisers:** A. Walcarius and members of the Electroanalytical Chemistry group of the Laboratoire de Chimie Physique et Microbiologie pour les Matériaux et l'Environnement (LCPME); Collaboration with sub-division of the "Société Chimique de France"

#### Keynote speakers:

- Jean-Pierre Sauvage, Université de Strasbourg, France, 2016 Nobel Laureate in Chemistry
- Philip N. Bartlett, University of Southampton, UK
- Michael V. Mirkin, Queens College, Energy Institute, The City University of New York, USA
- Wolfgang Schuhmann, Ruhr-Universität Bochum, Germany

#### Invited speakers:

- Tim Albrecht, Imperial College, London, UK
- Lois de Smet, Wageningen University, NL
- Frédéric Kanoufi, ITODYS, Paris, France
- Pooi S. Lee, Nanyang University, Singapore, SG
- Bin Ren, Xiamen University, China

#### 2. International Fischer Symposium (IFS 2018) ([www.fischer-symposium.org](http://www.fischer-symposium.org))

**Dates:** 27-31 Mai 2018

**Location:** Kloster Seeon, Germany

**Organisers:** Prof. P. Allongue (Ecole Polytechnique, Palaiseau, France) together with Prof. O. M. Magnussen (Kiel University, Germany)

The Fischer Symposium is held every 3 years. It is a 4 days Gordon style conference where are traditionally discussed latest work in electrochemistry in relation with other fields of science in an inter-disciplinary approach. IFS 2018 solicited fundamental and applied papers on all aspects of nanometer scale electrochemical phenomena, including but not limited to (a) Structure and dynamic of electrochemical interfaces, (b) Electrochemical energy conversion

and storage , (c) Electrochemistry of new materials, (d) Electrodeposition, (e) Corrosion, passivity, and oxide films, (f) Bioelectrochemistry and functionalized electrodes, (g) Novel techniques in nanoscale electrochemistry, (f) Studies of single molecules and nanoscale objects

**Invited speakers:**

- Nick Birbillis (Monash University, Australia)
- Angel Cuesta (Aberdeen, UK)
- Ulrike Diebold (Uni Wien, Austria)
- Jakub Drnec (ESRF, France)
- Johna Erlebacher (John Hopkins University, USA)
- Thomas Moffat (NIST, USA)
- Toshiyuki Nohira (Kyoto University, Japan)
- Beatriz Roldan Cuenya (Fritz-Haber-Institut, Germany)
- Jan Rossmeisl (Copenhagen, Denmark)
- Elena Savinova (Strasbourg, France)
- Peter Strasser (TU-Berlin, Germany)
- Nonjiang Tao (Arizona State University, USA)
- Kristina Tschulik (Bochum University, Germany)
- Gunther Wittstock (University Oldenburg, Germany)
- Vanessa Wood (ETH Zürich, Switzerland)

**3. Electrospinning for Energy (EEn 2018) ([www. Elen2018.eu](http://www.Elen2018.eu) )**

**Dates:** 13-15 June 2018

**Location:** Montpellier

**Organizers:** Deborah Jones

**Invited speakers:**

- Prof. Jang Kyo KIM - Hong Kong University of Science & Technology (HKUST), Hong Kong
- Dr. Luca MERLO - Solvay Specialty Polymers, Belgium
- Prof. Dario PISIGNANO - University of Pisa, Italy
- Dr. Ivan PONOMAREV - Elmarco s.r.o., Czech Republic
- Prof. David CORNU - ENSCM, Montpellier University, France
- Prof. Christel LABERTY – Sorbonne University, France
- Dr. M.V. REDDY - National University of Singapore, Republic of Singapore

**4. Journée Toulousaine d'Electrochimie (<http://jte.name>)**

**Dates:** 12 July 2018

**Location:** Toulouse

**Organizers:** Mathieu Gibilaro

**Invited speakers:**

Cécile SCHRICKE (société RADIAL)



Mathieu ETIENNE (LSPME, Nancy)

## 5. Symposium of the French Group of Bioelectrochemistry

(<http://www.bioelectrochimie-gfb.org/>)

**Dates:** 24-27 September 2018

**Location:** Sète

**Organisers:** Christophe INNOCENT, Manon GUILLE-COLLIGNON, Elisabeth LOJOU, Benoit PIRO, Maxime PONTIE

This symposium is organized each 2 years. The objective of the symposium is to favor the participation of PhD students

### Invited speakers:

- Frédéric BARRIERE, ISC Rennes
- Arnaud CHOVIN, LEM, Paris
- Marcello GENNARI, DCM, Grenoble
- Alexander KUHN, ISM, Bordeaux
- Pascal MAILLEY, CEA, Grenoble
- Janine MAUZEROLL, McGill Univ., Montréal, Canada
- Christophe LEGER, BIP, Marseille
- Yves LE MEST, CEMCA, Brest
- Christine MOUSTY, ICCF, Clermont-Ferrand

## 6. 8<sup>th</sup> Summer School on the Electrochemical Engineering

(<https://8essee2018.sciencesconf.org/>)

**Dates:** 27-31 August 2018

**Location:** Toulouse

**Organisers:** A. Bergel, P. Chamelot, F. Chauvet, B. Dustou, D. Evrard, P. Gros, M; Gibilaro, L. Latapie, L. Massot, K. Serrano, L. Arrurault, J. Roche, T. Tsedakis, H. Vergnes

The school is organized each three years. The last was organized in the Netherlands.

13 July 2018

Sabine SZUNERITS

Regional Representative for France (2017-2019)

sabine.szunerits@univ-lille.fr

+33 (0)3 62 53 17 25



Technische Universität Braunschweig | Institute of Energy and  
Process Systems Engineering  
Postfach 3329 | 38023 Braunschweig | Germany

Technische Universität  
Braunschweig  
**Institute of Energy and Process  
Systems Engineering**

Franz-Liszt-Str. 35  
38106 Braunschweig  
Germany

Prof. Dr.-Ing.  
Ulrike Krewer

Tel. +49 (0) 531 391-3030  
Fax +49 (0) 531 391-5932  
u.krewer@tu-braunschweig.de  
www.tu-braunschweig.de/ines/

## ISE Report 2017-2018; Region: Germany

Date: July 20, 2018

### **Membership:**

267 (last report in 2017: 272)

### **News:**

After completing his last term as RR Germany, Prof. Helmut Baltruschat handed over the task to Prof. Ulrike Krewer on Jan. 2018. She is placed in TU Braunschweig and focuses on dynamic electrochemical analysis, model-based analysis of electrochemical energy cells from microkinetics to full systems.

### **Past ISE sponsored meetings (since last ISE meeting):**

#### **2nd Gerischer-Kolb Symposium: Modern Aspects of Bioelectrochemistry**

11-13 October 2017, Schloss Reisenburg, Germany (Organisers: T. Jacob, L. A. Kibler)

#### **14<sup>th</sup> International Fischer Symposium on Nanoscale Electrochemistry**

27-31 May 2018, Kloster Seeon, Germany (Chairs: Philippe Allongue, Olaf Magnussen)

#### **11th International Workshop on Engineering of Functional Interfaces**

1-3 July 2018, Wittenberg, Germany (Organisers: A. Heerwig et al.; Scientific advisory board: F. Lisdat et al.)

### **Electrochemical Meetings to come (ISE sponsored \*\*)**

#### **Electrochemistry 2018\*\***

24-26 September 2018, Ulm, Germany (Organisers: Timo Jacob, L. Kibler, S. Kirrwald, S. Passerini)

#### **Advanced School on Impedance Spectroscopy (ASIS)**

25-26 September 2018, Chemnitz, Germany (Organiser: Olfa Kanoun)

#### **Third Bunsen Colloquium on Solid-State Batteries**

Your ref: [xxx]  
Your mail from:  
Our ref: UK  
Our mail from: -

Nord/LB Hannover  
Account number 1 999 200  
Bank code 250 500 00

IBAN: DE79250200000001999200  
BIC (Swift Code): NOLADE2H  
VAT Reg No: DE 152330858  
VAT No: 14/201/24509

14-16 Nov. 2018, Frankfurt/Main, Germany (Organisers: W. Zeier, P. Lamp, et al.)

**International Battery Production Conference**

14-16 Nov. 2018, Braunschweig, Germany (Chairs: A. Kwade, C. Herrmann)

**16th Symposium on Modeling and Experimental Validation of Electrochemical Energy Technology\*\***

12-13 March 2019, Braunschweig, Germany (Organisers: U. Krewer, A. Kwade, R. Hanke-Rauschenbach)

**Insights into Gas Diffusion Electrodes: From Fundamentals to Industrial Applications**

23-25 Sept. 2019, Magdeburg, Germany (Organisers: T. Turek, U. Krewer, C. Roth, W. Schuhmann et al.)

**Kraftwerk Batterie: Advanced Battery Power Conference**

2-4 Apr. 2019, Aachen, Germany (Chairs: D.U. Sauer, M. Winter)

Various industry oriented meetings with exhibitions, e.g.

f-Cell (Sept. 2018, Stuttgart); Hannover Fair with "Hydrogen and fuel cells" (March 2019, Hanover); the Battery Show (May 2019, Stuttgart)

If you have any further questions, do not hesitate to contact me.

Yours sincerely,



Prof. Dr.-Ing. Ulrike Krewer



Report 2018 of the ISE Regional Representative – Greece prepared for the Meeting of the ISE Regional Representatives to be held during the 69th Annual Meeting of the ISE annual meeting in Providence, Bolonia 2-7 September, 2018

## 1. Membership

- The number of ISE members in Greece for the year 2017 are 33 members, which has been increased with respect to 2016 by the registration of new members. Their preferences in the activities of the different ISE Divisions are as follows (3 of them have not expressed specific preferences):
  - Division 1, Analytical Electrochemistry (7)
  - Division 2, Bioelectrochemistry (2)
  - Division 3, Electrochemical Energy Conversion and Storage (21)
  - Division 4, Electrochemical Materials Science (21)
  - Division 5, Electrochemical Process Engineering and Technology (16)
  - Division 6, Molecular Electrochemistry (6)
  - Division 7, Physical Electrochemistry (13)
- Efforts to recruit new members continue, especially targeting young scientists especially postdocs and PhD candidates. This would at least double the Greek members.

## 2. Activities

During the ISE 2017 conference in Providence Greece was represented by 3 oral contributions and the conference was attended by 3 Greek participants.

- Professor S. Sotiropoulos (Aristotle University of Thessaloniki, Greece) continued acting as one of the Editors of *Electrochimica Acta*.
- Professor C. G. Vayenas (University of Patras, Greece), ISE Fellow, continued acting as one of the Editors of *Modern Aspects of Electrochemistry*, Patras, Greece.

Patras, Greece, 09 Aug, 2018

Dr Stylianos G. Neophytides

Research Director

Institute of Chemical Engineering Sciences (ICE/HT)

Foundation of Research and Technology (FORTH)

Email: [neoph@iceht.forth.gr](mailto:neoph@iceht.forth.gr)

Tel: +30 2610 965265



TAMÁS PAJKOSSY  
INSTITUTE OF MATERIALS  
AND ENVIRONMENTAL CHEMISTRY  
RESEARCH CENTRE FOR NATURAL SCIENCES  
HUNGARIAN ACADEMY OF SCIENCES  
H-1117 BUDAPEST, MAGYAR TUDÓSOK KRT. 2.

ADDRESS: H-1519 BUDAPEST, P.O. BOX 286.  
PHONE: +36 1 382 6496  
E-MAIL: pajkossy.tamas@ttk.mta.hu  
www.ttk.mta.hu

Budapest, July 30, 2018.

## Report of activities: Hungarian section of ISE prepared for the Meeting of Regional Representatives of ISE, 69th Annual Meeting, Bologna, Italy, September 2-8, 2018

### 1. ISE members from Hungary

The ISE membership from Hungary was nearly stagnant during the past decade; now a definite growth of membership happened: now we have 27 Hungarian ISE members. It is a fortunate change that the young people belong to groups dealing with „pure electrochemistry” at two major physical chemistry university departments (rather than employing electrochemistry in a group of other disciplines); probably this number will be stabilized.

### 2. Scientific activity

Electrochemistry in Hungary has always played a central role in physical chemistry teaching – both on undergraduate and graduate level. This is so also nowadays: the two basic subject at the above-mentioned two universities are focused on photoelectrochemistry and electrochemical kinetics, respectively. There exist also other smaller scale studies (done by ISE members) on corrosion, batteries/supercapacitors and metal deposition in other institutions. Two Hungarian groups (of non ISE-members) are active in sensor-related electrochemistry.

The ISE members working in Hungary published altogether 7 (seven) papers in the *Electrochimica Acta* since the last report (since 2017 summer).

### 3. Meetings:

This year there were no electrochemistry-related international conferences held in Hungary; nevertheless, we organized a couple of local meetings at the universities.

A handwritten signature in blue ink that reads "Tamás Pajkossy".

Tamás Pajkossy  
Regional ISE representative of Hungary

FROM:

**Dr. Suresh Kumar Aggarwal**

ISE Regional Representative of India (2017-19)

Former President, ISEAC, Mumbai, India

Email: *skaggr2002@gmail.com*

Tel: (0091) 98-925-78865

(Available on whatsapp and viber)



## **Report to ISE for 2017-18 from RR in India**

### 1. **ISE Members:**

At present, there are 43 members to ISE from India. Their interests in various branches are given below :

Analytical Electrochemistry (19), Bioelectrochemistry (7), Electrochemical Energy Conversion and Storage (23), Electrochemical Materials Science (24), Electrochemical Process Engineering and Technology (6), Molecular Electrochemistry (4), Physical Electrochemistry (13).

Efforts are continued to encourage the electrochemistry community in India to join ISE, and publish their research work in ISE Journal "*Electrochimica Acta*".

### 2. **ISEAC Conference (CEAMCR-2018)**

An International Conference as 13<sup>th</sup> Meeting of the Indian Society for ElectroAnalytical Chemistry (ISEAC), founded in 2003 with its headquarters at Mumbai,

Maharashtra, was organised at Mumbai during February 15-17, 2018. The Conference was organised under the thematic title “*Conference on Electrochemistry in Advanced Materials, Corrosion and Radiopharmaceuticals, CEAMCR-2018*” at DAE Convention Centre, Anushakti Nagar, Mumbai 400 094, India. Under the Scope of this Conference, the expediency of electrochemistry was discussed in the context of Sensors and Biosensors, Electrochemistry of Biomolecules, Li-ion battery, Supercapacitor, Solar energy harvesting, Corrosion, Molten salt electrochemistry, Development of radiopharmaceuticals, etc. The Scope of the Society was broadened to include the activities from all branches of Electrochemical Science and Technologies. ISEAC aims to promote the electrochemistry in India, to disseminate scientific and technological knowledge within the country, and to advance both national and international cooperation in the area of Electrochemistry. An overwhelming response from all corners of India and also from overseas was received, with over 300 registered delegates at this Conference.

Since its inception, scope of the society has been broadened to cover the entire spectrum of the scientific activities in the field; this has resulted in the increased number of life-members from the scientific fraternity across various Institutes. The official website of the ISEAC was changed to [www.iseac.org.in](http://www.iseac.org.in) . Along with the abstracts book, a Souvenir cum Bulletin of ISEAC was released during the opening ceremony of the Conference, and this Bulletin contains tutorial articles on different aspects of electrochemical science and technology. Different Government and Academic organisations supported the conference, including Board of Research in Nuclear Science (BRNS), Heavy Water Board (HWB), Atomic Energy Regulatory Board (AERB), ONGC Energy Centre, International Society of Electrochemistry (ISE), American Chemical Society (ACS), Royal Chemical Society (RSC) and Elsevier KeAi Science press. The industrial partners who supported the Conference are Metrohm India Limited, Sinsil International, Labguard India Pvt. Limited, Ipgi Instruments Pvt. Limited, PG Tech Pvt. Limited, Enlitech, IR technology Services Pvt. Limited, Kanopy Techno Solutions Pvt. Limited, and ICON Analytical.





3. **SAEST Activity:**

The Society for Advancement of Electrochemical Science and Technology (SAEST) with its headquarters at CECRI, Karaikudi, Tamilnadu, founded in 1964, ([www.saest.com](http://www.saest.com)) organised the following activity : Three days workshop on School and Hands-on Training on Photovoltaics for Solar Energy Harvesting at CECRI, Karaikudi , during September 2017.

4. **ECS Activity:**

The Electrochemical Society of India, founded in 1964, with its headquarters at Bengaluru, Karnataka, ([www.ecsi.in](http://www.ecsi.in)) publishes one Journal ([www.jecsi.in](http://www.jecsi.in)) and also holds Seminars and Conferences.

*Submitted by Dr S.K.Aggarwal, RR from India to ISE  
Acknowledgement to Dr Ashis Satpati (Secretary, ISEAC)*

# **Report of the ISE Regional Representative for I.R. Iran**

**(Aug. 2018)**

## **A- Membership**

In 2018, 15 Iranian scientists are active in different ISE sections. Currently, due to the problem of sending the membership fee to overseas, Iranian ISE active members have decreased vs. 2017.

## **B- Activities**

The Iranian electrochemists have participated in several international and national conferences on electrochemical topics including:

- 1- 13<sup>th</sup> Annual Electrochemical Seminar, Nov. 22-23, 2017, Materials & Energy Research Center, Karaj, Iran; by Electrochemical Soc. of Iran.
- 2- 19<sup>th</sup> Iranian Chemical Society Conference (with a separate section in electrochemistry), 21-23 Feb. 2016, Shiraz University, Shiraz, Iran.
- 3- 24<sup>th</sup> Iranian Analytical Chemistry Seminar, Sept. 1-3, 2017, Sahid Madani University of Azarbayegan, Tehran, Iran.
- 4- XII ECHEMS Electrochemistry in Ingenious Molecules, Surfaces and Devices, Milano Marittima, Italy, 6-9 June 2017.
- 5- ISE 68th Annual Meeting, 27 August to 1 September, 2017, Providence, RI, USA
- 6- 20th Topical Meeting of the International Society of Electrochemistry, Advances in Lithium and Hydrogen Electrochemical Systems for Energy Conversion and Storage 19-22 March 2017, Buenos Aires, Argentina
- 7- 21st Topical Meeting of the International Society of Electrochemistry, Photoelectrochemistry of semiconductors at the nanoscale: from fundamental aspects to practical applications, 23-26 April 2017, Szeged, Hungary

## **C-Published articles**

Based on Scopus reports more than 1350 papers have been published in 2017 by Iranian scientists in the field of electrochemistry. This is an increase in the Iranian publication in electrochemical methods vs. 2017. From the published papers, thirty six papers in 2017 are published in *Electrochimica Acta*.

Isfahan, Aug. 03, 2017

Ali A. Ensafi

Regional Representative of I. R. IRAN

Department of Chemistry

Isfahan University of Technology,

Isfahan 84156-83111

IRAN



University College Cork  
Lee Maltings  
Cork  
Ireland

31<sup>st</sup> July 2018

## ISE Ireland Regional Representative Annual Report (2017-2018)

### **Members.**

The number of ISE members in Ireland has increased by nine to thirty two over the past year with five of the universities, one of the institutes of technology and now four members from industry represented. Division 4, Electrochemical Materials Science with seventeen members has the largest affiliation. Post graduate students still account for approximately 40% of the membership.

### **Activities.**

The electrochemistry community is expanding through the increased focus nationally on nanotechnology and materials research. To assist with the interaction of the groups around Ireland the student members at Tyndall in UCC hosted the first Student Meeting on 27<sup>th</sup> October 2017. Both ISE and non-ISE members were in attendance. In addition to the scientific content of the meeting and the social aspect the activities of the society were promoted which appears to have assisted with further interaction and growth of the society activities and membership in Ireland. A report on the meeting was prepared and submitted by the organiser, Ian Seymour, a Ph.D. student at Tyndall National Institute in University College Cork. The second annual ISE Student Meeting in Ireland is being planned for Q4 2018 and is likely to take place at the University of Limerick.

At the Annual Meeting in Bologna there will be six oral presentations and eight posters from electrochemists based in Ireland.

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Dr. James Rohan

Electrochemical Materials & Energy

Tyndall National Institute

University College Cork

Ireland

[tyndall.ie](http://tyndall.ie)

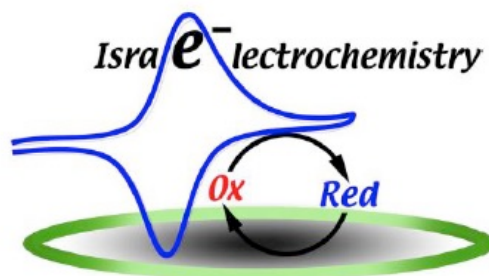
[tyndall.ie/emd-electrochemical-materials-and-energy](http://tyndall.ie/emd-electrochemical-materials-and-energy)

[connectcentre.ie](http://connectcentre.ie); <http://edge-research.eu/supervisors/james-rohan/>

Prof. Lital Alfonta, Israeli RR of ISE

Department of Life Sciences and Ilse Katz Institute for Nanoscale Science and Technology,  
Ben-Gurion University of the Negev, POBOX 653 Beer-Sheva, Israel 84105

Email: [alfontal@bgu.ac.il](mailto:alfontal@bgu.ac.il); website: [:http://www.bgu.ac.il/~alfontal](http://www.bgu.ac.il/~alfontal)



### *ISE Report from the Israeli Regional Representative*

*August 2018*

#### **Members**

Presently there are 35 Israeli ISE members, most are from academia. This number reflects an increase from 30 members in 2017. The number of electrochemists in the academy including graduate students is estimated to be over 150. With new faculty members that have joined the electrochemical community in the past three years by University name:

Bar-Ilan University: Malachi Noked, Lior Elbaz.

Ben-Gurion University of the Negev: Hadar Ben-Yoav, Emmanuel Shalom, Idan Hod.

Technion: Mathew Suss, David Eisenberg, Dario Dekel.

Tel-Aviv University: Brian Rosen

#### **Honors**

Doron Aurbach of Bar-Ilan University was awarded the Frumkin Memorial Medal award of the ISE: **“in recognition of his many and great achievements across fundamental aspects of electrochemistry for more than 35 years, especially in the area of batteries, where he was recognized as the founder of the field of rechargeable Mg batteries”**. The Award will be given in the 69<sup>th</sup> ISE meeting in Bologna, Italy.

Doron Aurbach was also awarded the Allen J. Bard Award of the ECS for **“Electroanalytical Techniques Coupled with *in-Situ* Structural Characterization of Electrodes in Devices for Energy Storage and Conversion”**

**Daniel Mandler** was elected as the head of the ISE Division of Analytical Chemistry.

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Prof. Lital Alfonta, Israeli RR of ISE

Department of Life Sciences and Ilse Katz Institute for Nanoscale Science and Technology,  
Ben-Gurion University of the Negev, POBOX 653 Beer-Sheva, Israel 84105

Email: [alfontal@bgu.ac.il](mailto:alfontal@bgu.ac.il); website: <http://www.bgu.ac.il/~alfontal>

**Hadar Ben-Yoav** has received the ISE Travel Award for a Young Electrochemist

4 of the ISE members in good standing are ISE Fellows: Aurbach, Gileadi, Lev, Mandler. This respectable number (out of 73 ISE Fellows overall) reflects the achievements of Israeli electrochemists.

### Activities

The annual meeting of electrochemistry is called Israelectrochemistry and is held almost every year at a different University. These meetings are usually supported by the Baruch Zinger Foundation, and recently also by the family of the late Prof. Chaim Yarnitzki which awarded a few prizes for the best lecture and poster presentations. A future meeting is planned for the winter of 2019 and it will be held in the Memory of Prof. Israel Rubinstein. In addition to the annual meeting, a few industry oriented meetings are organized by Shmuel De-Leon Energy Ltd. ([www.sdle.co.il](http://www.sdle.co.il)). The Annual Israanalytica meeting that was held in January 2018, includes many electrochemists in its program.

Prof. Lital Alfonta



July 25<sup>th</sup>, 2018

## ISE Annual Report 2018 from the Regional Representative of Italy

**ISE membership.** The number of members has increased substantially in comparison with recent years, owing to the promotional effect of the annual ISE Meeting 2018 in Bologna. At the date of this report the membership has reached the gratifying value of **178 active members**.

### Participation to ISE operative bodies.

- Marco Musiani (CNR – Padova), Executive Secretary for the term 2014-2018;
- Francesca Soavi (University of Bologna), Chair Elect of Division 3 (Electrochemical Energy Conversion and Storage) for the years 2017-2018;
- Monica Santamaria (University of Palermo), Chair Elect of Division 4 (Electrochemical Materials Science) for the years 2017-2018;
- Patrizia Mussini (University of Studies of Milan), Chair Elect of Division 6 (Molecular Electrochemistry) for the years 2017-2018;
- Francesco Paolucci (University of Bologna), Past-Chair of Division 6 (Molecular Electrochemistry) for the years 2017-2018.

### Sponsored Meetings.

 ISE sponsorship has been granted to the following Congresses in 2018:

1. Giornate dell'Elettrochimica Italiana – Annual Meeting of the Electrochemistry Division of the Italian Chemical Society, 21-25 January 2018, Sestrièrè (Torino), Italy, sponsored by the Executive Committee.
2. International Workshop on Supercapacitors and Energy Storage, 31 Mai – 1 June 2018, Salerno, Italy, sponsored by Division 3.
3. 12<sup>th</sup> International Symposium on Electrochemical Micro & Nano System Technologies 2018 (EMNT 2018), 28 August-1 September, Milano, Italy, sponsored by Division 4.
4. 2<sup>nd</sup> International Workshop on Physics of Membrane Processes, 2 September 2018, Bologna, Italy, sponsored by Division 5.
5. 6<sup>th</sup> International Conference on Ionic Liquids for Electrochemical Devices (ILED-6), 9-11 September 2018, Rome, Italy, sponsored by the Executive Committee.

**ISE Activities.** Italy hosts in 2018 the **69<sup>th</sup> Annual ISE Meeting (2-7 September 2018, Bologna, Italy)**.

The number of attendees at the date of this report is around 2000, the highest number so far in the ISE's meetings history.



Sandro Cattarin, Regional Representative of Italy ( [sandro.cattarin@cnr.it](mailto:sandro.cattarin@cnr.it) )



**International Society of Electrochemistry**  
**Annual ISE report of Japan – 2017/2018**

1. ISE members and recruitment

New members have been recruited via e-mail according to the list sent by Dr Musiani. Requirement was also done at some meetings organized by Electrochemical Society of Japan (ECSJ). Currently, there are 820 ISE members in Japan (August, 2018). ECSJ is one of the major societies of electrochemistry community and now the number of ECSJ member is more than 4,600. So, strong collaboration with ECSJ will be essential for further development of ISE.

2. Electrochemical research activities and conferences

ECSJ handles all fields of electrochemistry including fundamental and applied studies. Also ECSJ has the strong relationship with major enterprises.

The 2017 Fall Meeting of ECSJ was held at Nagasaki University during September 10-11, 2017. Total attendee was 1032.

The 85th Anniversary Meeting of ECSJ was held at Tokyo University of Science during March 9-11, 2018. Total attendee was 1,856.

The 22nd Topical Meeting of ISE was held at Waseda University during April 15-18. The main theme of the meeting was “Material Engineering and Process, Optimization at Electrified Solid/Liquid Interfaces.” There were 5 Symposiums in the meeting, in which 5 keynote lectures, 15 invited lectures, and 155 oral and 141 poster contributions were presented. Three hundred sixty-two participants came from 34 countries.

The 2018 Fall Meeting of ECSJ will be held at Kanazawa University during September 25-26.

Susumu Kuwabata

Regional Representative of Japan

Professor, Graduate School of Engineering, Osaka University

## ISE REPORT 2018 from Korea

### Members

The number of active ISE members from Korea is somehow decreasing. We are trying to boosting up the continuation of the membership and the recruit of new members.

### Activities; Preparation of ISE 2021 annual meeting in Jeju Island, Korea

We hosted the 2021 ISE annual meeting to ICCJEJU (International Convention Center JEJU) which is located in the Jungmun Resort Area which is in the southern part of the island (<http://www.iccjeju.co.kr/EN/Main>). It is built only for conference and will be exclusively utilized by ISE meeting during the conference time. Newly built Booyoung Hotel & Resort ([http://www.booyoungjejuhotel.com/view/index.do?SS\\_SVC\\_LANG\\_CODE=ENG](http://www.booyoungjejuhotel.com/view/index.do?SS_SVC_LANG_CODE=ENG)) in front of the venue adds up the convenience.



The Korean Electrochemical Society (KECS) fully supports the meeting and decided to combine 2021 KECS Fall meeting to ISE 2021, if ISE allows.

The Organizing Committee from local side and Local Organizing Committee is fixed as follows and started working for the preparation.

OC members from Korean side

**Woonsup Shin** (Sogang University), **Chair**, current RR of ISE, current Vice President of KECS  
**Seung Mo Oh** (Seoul National University), **Co-Chair**, Secretary of 2005 ISE meeting in Busan, Korea  
**Jaeyoung Lee** (Gwangju Institute of Science and Technology), **Secretary**, Chair of ISE topical meeting in Gwangju, Korea in March 2016  
**Hye Jin Lee** (Kyungpook National University), current Secretary General of KECS  
**Taek Dong Chung** (Seoul National University), current Vice-chair of Bioelectrochemistry Division of ISE

LOC and Advisor

**Wonil Cho** (KIST, Korea Institute of Science and Technology), **Chair of LOC**, current President of KECS, an active participant of ISE meetings, in battery division.  
**Hasuck Kim** (DGIST, Daegu and Gyeongbuk Institute of Science and Technology), **Advisor**, ISE fellow, Past President of ISE, Chair of 2005 ISE meeting in Busan, Korea

Above 7 people are the main body for the preparation of ISE 2021 and actively communication each other and electrochemistry societies in Korea.

I am looking forward to seeing you all soon in Bologna.

August 5, 2018

Woonsup Shin, Regional Representative of Korea  
Department of Chemistry/ BioMedical Engineering, Sogang University, Seoul, Korea.

## State research institute Center for Physical sciences and Technology

Savanorių Ave. 231, LT-02300 Vilnius, Lithuania. Ph. +370 5 266 1640/1643, fax. +370 5 260 2317, e-mail: info@ftmc.lt

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International Society of Electrochemistry

### ISE ANNUAL REPORT LITHUANIA

Vilnius, 10-07-2018

#### Members

The number of the members in the ISE regional group increased **from 21 to 37** in the last year. The increase is related to the 23<sup>rd</sup> Topical Meeting.

#### Activities

ISE regional group organised the 23<sup>rd</sup> ISE Topical Meeting, **Electrochemistry for Investigation of Biological Objects: from Functional Nanomaterials to Micro/Nano-Electrodes**, in Vilnius, May 8-11. The detailed report on the meeting is available at [http://www.ise-online.org/ise-conferences/annmeet/reports/topical\\_report\\_2018-2.pdf](http://www.ise-online.org/ise-conferences/annmeet/reports/topical_report_2018-2.pdf)

R. Pauliukaite is a member of the Scientific Committee of the *ESEAC 2018 in Rhodes Island, Greece*. ESEAC will be organized in **Vilnius in 2020**. She is also a member of the Scientific Committee of the 7<sup>th</sup> *Baltic Electrochemistry Conference*, which will be in *Tartu, Estonia*.

#### Publications by ISE regional group members:

**2 presentations** were presented *ISE Annual Meeting in Providence* last year, 1 of them is invited and given by Prof. Gintaras Valinčius;  
**8 presentations** in the 22<sup>nd</sup> *ISE Topical Meeting in Tokio* (Japan);  
**25 presentations** in 23<sup>rd</sup> *ISE Topical Meeting in Vilnius* (Lithuania);  
**1 presentation** will be presented in the *ISE Annual Meeting in Bologna* (Italy);  
**2 presentations** were presented in ISE sponsored meeting *ESEAC 2018, Rhodes* (Greece);  
**4 papers** were published in *Electrochimica Acta* by ISE members in 2017-2018.

#### Future perspectives

Edit Special Issue of *Electrochimica Acta* devoted to the 23<sup>rd</sup> *ISE Topical Meeting in Vilnius* (Lithuania); attend ISE and ISE sponsored meetings.

Chief researcher Dr. Rasa Pauliukaitė  
Department of Nanoengineering  
Center for Physical Sciences and Technology  
Savanorių pr. 231, LT-02300 Vilnius  
Lithuania

Email: [pauliukaite@ftmc.lt](mailto:pauliukaite@ftmc.lt)

Phone +370 5 2644866

## **ISE Report from the Mexican Regional Representative August 2018**

### **ISE Membership:**

The number of ISE members is at this moment of 59. This number concerns academics and students of the different universities and institutes that develop different disciplines of electrochemical science.

### **Participation to ISE operative bodies**

Ignacio González, organizing committee of “The 68th Annual Meeting of the International Society of Electrochemistry” (August 27 to September 1, 2017, Providence USA)

Carlos Frontana; organizing committee of Symposium 13: The Green Potential of Molecular Electrochemistry

Ignacio González and Jorge Ibanez; organizing committee of the Symposium 18: Education for Electrochemistry and Electrochemical Engineering.

Juan Manuel Peralta was the past chair of Division 5, Electrochemical Process Engineering and Technology.

### **Sponsored Meetings**

Next year, some active ISE members (Carlos Frontana, Ignacio González, Linda González-Gutiérrez) will participate in the organization of the 24<sup>th</sup> ISE Topical Meeting which will be held in, Merida, Mexico from 7 to 10 April 2019. The main theme of this conference is “Electrochemical Assembly at the Meso, Nano and Molecular Scale” and the abstracts submission will be opened in October 1, 2018.



Felipe J. González, regional representative of Mexico (fgonzale@cinvestav.mx)



## International Society of Electrochemistry Annual report of Portugal – 2017/2018

2<sup>nd</sup> August 2018

### 1. Membership

The number of ISE members in Portugal has increased from **20** in August 2017 to **26** at July 2018. We hope to further increase the number of members through the dissemination of ISE and all its activities in national meetings.

Currently, the member interests on ISE divisions are as follows:

Division 1. Analytic electrochemistry (14 members)

Division 2. Bioelectrochemistry (10 members)

Division 3. Electrochemical Energy Conversion and Storage (9 members)

Division 4. Electrochemical Materials Science (16 members)

Division 5. Electrochemical Process Engineering and Technology (4 members)

Division 6. Molecular Electrochemistry (8 members)

Division 7. Physical Electrochemistry (3 members)

### 2. Activities

ISE Members have been active in the organization and have also participated in several meetings sponsored by ISE, namely:

- XXIII Meeting of the Portuguese Electrochemical Society – SPE2018, 2-4 May 2018 Porto, Portugal. (*Chair, Scientific Committee, several contributions*)
- 3<sup>rd</sup> International Summer School on Multifunctional Smart Coatings and Surfaces, 16- 21 July 2018, University of Aveiro, Aveiro, Portugal. (*Chair, Organizing committee*)
- 23<sup>rd</sup> Topical Meeting of the International Society of Electrochemistry, 8-11 May 2018, Vilnius, Lithuania. (*Several contributions including a plenary session*)
- SIBAE 2018, XXIII Congresso da Sociedade Iberoamericana de Eletroquímica, 3-8 June 2018, Cusco, Peru. (*Scientific committee, several contributions*)
- 8<sup>th</sup> International Symposium of Aluminum Surface Science & Technology – ASST 2018, 27-31 May 2018, Helsingor, Denmark. (*International organizing committee, contributions*)
- The 16<sup>th</sup> International Symposium on Polymer Electrolytes, 24-29 June 2018, Yokohama, Japan. (*Scientific Committee, several contributions*)
- EMCR 2018, Electrochemical Methods in Corrosion Research 2018, 21-27 July 2018, Cambridge, UK. (*Scientific committee, contributions*)

Ana S. Viana

Faculty of Sciences, University of Lisbon

Regional Representative of Portugal

([anaviana@fc.ul.pt](mailto:anaviana@fc.ul.pt))

## **ISE Report from the Romanian Regional Representative prepared for the 69th Annual ISE Meeting in Bologna, Italy**

### ***Members***

Currently, Romania has 29 ISE members, constant since the 68th Annual Meeting of ISE in Providence, RI, USA. The number did not increase due to the lack of international projects, but efforts to recruit new members continue, especially targeting young scientists.

The interest of the Romanian members in the different divisions is given here:

- Division 1: Analytical Electrochemistry - 20 members (decreased by 3 members)
  - Division 2: Bioelectrochemistry – 16 members (increased by 1 member)
  - Division 3: Electrochemical Energy Conversion and Storage – 3 members (increased by 1 member)
  - Division 4: Electrochemical Materials Science – 17 members (increased by 1 member)
  - Division 5: Electrochemical Process Engineering and Technology – 5 members (constant)
  - Division 6: Molecular Electrochemistry – 9 members (decreased by 2 members)
  - Division 7 Physical Electrochemistry – 10 members (decreased by 1 member)
- There are 2 members without affiliation to a specified division.

### ***Activities***

Most of the activities related to electrochemistry are performed in universities and research organizations possessing Physical Chemistry and Materials Science specialties. Generally, they consist in:

- **Preparation and publication of papers in ISE journals** (El. Acta) or other ones which are specific to their R&D activities, including materials science, sensors/biosensors, medicine, renewable energy, etc.

- **Defended PhD theses in the field of Applied Electrochemistry:** 1. Oana Hosu, *New strategies in sensor design for analytical and bioanalytical applications*, 20.09.2017, co-supervised by Prof. Dr. R. Sandulescu and Prof. Dr. Christopher Brett (University of Coimbra, Portugal), 2. Chim. Georgiana-Luiza ARNOLD, *Sensors based on azulene modified electrodes for testing metals in waters*, 12.09.2017, supervised by Prof. Dr. Eng. E.-M. Ungureanu, 3. Ing. Marian-Laurentiu TATU, *Electrochemical and spectral studies of some indolisines*, 12.09.2017, supervised by Prof. Dr. Eng. E.-M. Ungureanu.

#### **- Organization of scientific meetings**

1. The 2nd edition of the Workshop on *Bioelectrochemistry in the Service of Life*, 19th of September 2017, Cluj-Napoca, Romania organized by Analytical Chemistry Department, UMF Iuliu Hatieganu University with international participation (Christopher M.A. Brett, Coimbra, Portugal, Giovanna Marrazza, Florence, Italy)

2. The 3<sup>rd</sup> edition of the Workshop on *Bioelectrochemistry in the Service of Life*, 29th of May 2018, Cluj-Napoca, Romania organized by Analytical Chemistry Department, UMF Iuliu Hatieganu University with international participation (Florence Geneste, Université de Rennes 1, France, Alizée Lemaire, Université de Rennes 1, France)



3. The 3<sup>rd</sup> edition of the *Summer meeting of Bio-elethrochemistry* (SMOBE), 22-24 of August 2018, Antwerp, Belgium, co-organizer Prof Cristea Cecilia, <https://www.uantwerpen.be/en/conferences/bioelectrochemistry-2018/>

4. The 5<sup>th</sup> edition of the francophone workshop *Nouveaux matériaux pour la reconnaissance électrochimique des minéraux et des espèces biologiques* acronyme « NOMARES » (*New materials for electrochemical recognition of mineral and biological species*), with the support of Association Universitaire de la Francophonie, in Constanta, Romania, with the occasion of the International Conference on Chemistry *CHIMIA 2018*, May 24 – 26th, 2018.

5. The 20<sup>th</sup> Romanian International Conference on Chemistry and Chemical Engineering *RICCCE 20*, September 6 – 9, 2017, Poiana Brasov, Romania

6. The Conference *Biosensors as tools for today's challenges*, EraNet-Manunet II “SENS 4WINE”

7. Bilateral Romania-France (Brancusi) *FOODVALUE*, organised by International Centre of Biodynamics, Bucharest, Romania on 23.07.2018

- **Participation of ISE members at ISE sponsored and other international meetings**, respectively:

1. 2 poster presentations in ISE topical meeting in Vilnius, May 2018
2. 3 poster presentations and 1 oral communication in ESEAC symposium, Rhodes, June 2018
3. 2 oral and 2 poster presentations in SMOBE, August 2018, Antwerp
4. 2 posters in NanoPortugal 2018
5. 3 poster in ElecNano8 - the 8th International Conference on Electrochemistry in Nanosciences in Nancy, France, 29-31 May 2018.
6. ANNIC 2017 –Applied Nanotechnology and Nanoscience International Conference , Rome, Italy, 18-20 October 2017

- **Participation of ISE members at national scientific events**

1. **ERASMUS one day workshop**, Bucharest, *Center for Surface Science and Nanotechnology*, July 12, 2018.

- **Review article on several aspects of electrochemistry:**

1. George M. Vlăsceanu, Roxana-Maria Amărăndi, Mariana Ioniță, Teddy Tite, Horia Iovu, **Luisa Pilan**, Jorge S. Burns *Versatile Graphene Biosensors for Enhancing Human Cell Therapy*, *Biosensors and Bioelectronics* 117, 2018, 283-302.

- **International research projects on electrochemistry**, such as:

- **Luisa Pilan** participant in a grant of the National Authority for Scientific Research and Innovation, Operational Program Competitiveness Axis 1 - Section E, Program co- financed from European Regional Development Fund "Investments for your future" *GRABTOP - A Novel Graphene Biosensor Testing Osteogenic Potency; Capturing Best Stem Cell Performance For Regenerative Medicine*.

- The Romanian electrochemists from UPB-CSSNT are also involved in **international research networks** in cooperations with University of Porto (Prof. A.F. Silva), IST Lisbon (Prof. Fatima Montemor) through M ERANET projects.
- **H2020-MSCA-ITN-2017** project “*Advanced integrative solutions to Corrosion problems beyond micro-scale: towards long-term durability of miniaturized Biomedical, Electronic and Energy systems — mCBEEs’ facilitated the enrollment of 1 PhD student who will be trained in electrochemical topics (surface coatings involving ionic liquid electrolytes, corrosion assesment at micro and nano-scale).* The Romanian project leader and many of the key team members are ISE members.

### **Others**

Prof.Dr. Eng. Eleonora-Mihaela UNGUREANU was member of the doctoral examination committee for the PhD thesis: Wathiq Sattar ABDUL-HASSAN, Matériaux moléculaire électro-stimulables et assemblages organisés reposant sur des briques élémentaires de type viologènes, UFR de Chimie Biologie, Grenoble, France, defended in 14.02.2018.

Active members from the Romanian Society of Electrochemistry have contributed to the dissemination of various aspects of electrochemistry and electrochemical methods within the community of chemists and chemical engineers by publishing featured articles in the Bulletin of the Romanian Society of Chemistry (in Romanian) including topics on former electrochemists in Romania (Danut-Ionel VAIREANU - *In memoriam of Professor Ion ATANASIU*).

Awarding the title *Doctor Honoris Causa* of University Politehnica of Bucharest and Medal *Costin D Nenitescu* of the Romanian Sosity of Chemistry to Professor Christian Amatore, ENS Paris France..

Prof.Dr. Eng. Eleonora-Mihaela UNGUREANU



Regional Representative of Romania  
 Department of Inorganic Chemistry, Physical Chemistry and Electrochemistry  
 Faculty of Applied Chemistry and Material Science University "Politehnica" of Bucharest  
 1-7 Gheorghe Polizu Str., 011061, Sector1, Bucharest, code: 011061, ROMANIA , Room E  
 201 C  
 FAX: +4021 7607834;  
 Phone:+ 4021 402 39 77; 4021 402 38 55  
 E-mail: [eleonoramihaelaungureanu@gmail.com](mailto:eleonoramihaelaungureanu@gmail.com), [em\\_ungureanu2000@yahoo.com](mailto:em_ungureanu2000@yahoo.com)

## REPORT 2017-2018 of the ISE section in Russia

### Membership

Within the period of 2011-2017 the Russian section of ISE consisted of 45 to 55 members. The actual number is 49.

### Activities

Main research activities of the section in the period from August 2017 till August 2018 were in the area of pure and applied electrochemistry.

M. A. Vorotyntsev is actually a vice-chair of Division 4 of ISE, a member of the Committee in charge of awarding the ISE Prize for Electrochemical Materials Science as well as the Deputy Editor-in-Chief of the Russ. J. Electrochem. and Elektrokimiya.

A. A. Karyakin is an Associate Editor for bioelectrochemistry of Electrochem. Commun.

G. A. Tsirlina is a member of the Editorial Board of J. Electroanal. Chem. and a Topical Editor of J. Solid State Electrochem.

O. A. Petrii is a member of the Editorial Board of J. Solid State Electrochem.

A. D. Davydov is a member of the Editorial Board of Corrosion Science.

M. A. Vorotyntsev has been Guest Editor of special issue "ISE-2017" of Electrochimica Acta. He is actually Guest Editor of special issue "ISE-2018" of Electrochimica Acta.

A. D. Davydov, B. M. Grafov and M. A. Vorotyntsev were Guest Editors of special issue "100th V. G. Levich anniversary" published in journals Russ. J. Electrochem. and Elektrokimiya, vol. 53 (n° 9 and n° 10), 2017.

A number of Russian ISE members are actually members of the Editorial Board of the Russ. J. Electrochem. as well as serve as reviewers for Electrochimica Acta, Sensors and Actuators B Chemical, Electroanalysis, J. Electroanalytical Chemistry, J. Solid State Electrochemistry and other international electrochemical journals.

Participation of members of the Russian section in the 68th Annual ISE Meeting-2017 in Providence, USA was minimized due to the policy of the US Consulates in Russia which did not provide visas for trips for this conference. M. A. Vorotyntsev was serving as an Organizer of Symposium 11 "Synthesis and Applications of Electrochemically Active Materials" within this ISE Meeting.

Numerous members of the Russian section of ISE are planning to participate in the 69<sup>th</sup> Annual ISE Meeting-2018 in Bologna, Italy. M. A. Vorotyntsev is serving as an Organizer of Symposium 10 "Materials for and from Electrochemistry: State of the Art and Future Trends" within this ISE Meeting.

The main event for Russian electrochemists within this period was XV International conference "Topical Problems of Energy Conversion in Lithium Electrochemical Systems" (Suzdal, Russia, September 2017) and its satellite event Young scientists' school on electrochemical energy storage. Other international conferences related to electrochemistry took place in Ekaterinburg (XVII conference on Physical Chemistry and Electrochemistry of Melted and Solid Electrolytes) and in Sochi (Ion Transport in Organic and Inorganic Membranes).

ISE members of the Institute for Problems of Chemical Physics RAS (IPCP RAS, Chernogolovka, Moscow region), of the M. V. Lomonosov Moscow State University, of the A. N. Frumkin Institute of Physical Chemistry and Electrochemistry (IPCE RAS, Moscow) and of the Institute of General and Inorganic Chemistry (IGIC RAS, Moscow) have been participating actively in preparation and realization of several national and international conferences:

1. International Conference "Ion transport in organic and inorganic membranes". Sochi, Russia, May 2018;
2. XV International conference "Topical Problems of Energy Conversion in Lithium Electrochemical Systems", Suzdal, Russia, September 2018;
3. 5<sup>th</sup> National conference "Fuel Cells and Energy Devices on their Basis", Suzdal, Russia, June 2018.
4. Young scientists' school on electrochemical energy storage, Suzdal, Russia, September 2018.
5. International Workshop on Electrochemistry of Electroactive Materials (WEEM-2019), in preparation, Borovets, Bulgaria, 2019.

Members of the section also participated in other international and national electrochemical conferences within the period from September 2017 to August 2018, in particular

- European Corrosion Congress (Eurocorr – 2017), Prague, Czech Republic, September 2017;
- International Conference on Metamaterials and Nanophotonics (METANANO – 2017), Vladivostok, Russia, September 2017;
- Anodize it ! 2017 Conference, Noulouse, France, June 2017;
- 5th Global Conference on Polymer and Composite Materials (PCM 2018), Kitakyushu, Japan, 2018;
- 28th International Ocean and Polar Engineering Conference (ISOPE-2018), Sapporo, Japan, 2018;
- The Tenth International Conference on Materials Technologies and Modeling (MMT-2018), Ariel, Israel, 2018;
- International Conference on Metamaterials and Nanophotonics (METANANO – 2018), Sochi, Russia, 2018;
- Fourth Asian School-Conference on Physics and Technology of Nanostructured Materials (ASCO-NANOMAT 2018), Vladivostok, Russia, 2018.

Young electrochemists took active part in the specialized Youth Forum "Lomonosov-2018" (only for university and PhD students), which took place in Moscow, April 2018.

Each year the electrochemistry chair of the Moscow State University organizes in October the A. N. Frumkin Hearings (chaired in 2017 by E. V. Antipov) with several invited lectures devoted to various areas of electrochemistry and related disciplines, including invitations of top Russian and foreign electrochemists.

Since 2013 a new forum for discussions of modern trends and problems in electrochemistry among Russian electrochemists has been developing: "Moscow Region Seminar on Electrochemistry", Academician A. R. Khokhlov being its Coordinator, M. A. Vorotyntsev serving as its Academic Secretary. The choice of lecturers at the seminar is managed by its counsel. 30 presentations of top Russian and foreign electrochemists have already taken place at this seminar, see the site: <http://seminar-elchem.msu.ru/> for the further information.

Mikhail A. Vorotyntsev  
ISE Regional Representative - Russia



## ISE Regional Representative of Serbia - 2017/2018 Report

Currently there are 35 ISE members from Serbia. The trend of increasing number of members registered last year is continuing, as a result of the fact that Serbia will host ISE Annual Meeting in 2020. This is the largest number of members since Serbia is the independent ISE region.

### ACTIVITIES

1. A series of activities of ISE members from Serbia (primarily members of the Organizing Committee and the Local Organizational Committee of the Annual Meeting 2020 in Belgrade) on the preparation of the proposal of the First Announcement and Presentation of Belgrade as host at the 69<sup>th</sup> ISE Meeting in Bologna.

#### 2. Joint meeting

**54<sup>th</sup> Meeting of the Serbian Chemical Society and 5<sup>th</sup> Conference of Young Chemists of Serbia**, Belgrade, September 29-30, 2017, <http://www.shd.org.rs/54SHD>

The meeting celebrates 120 years since the founding of the Serbian Chemical. More than 130 papers were presented, including ten from the field of electrochemistry:

- Invited lecture: **Electrochemical power sources based on polypyrrole and aqueous electrolytes** by *Milica Gvozdenović and Branimir Grgur*, Faculty of Technology and Metallurgy, University of Belgrade
- two oral presentations and
- seven poster presentations.

#### 3. 55<sup>th</sup> Meeting of the Serbian Chemical Society, Novi Sad, Serbia, June 8-9, 2018,

<https://www.shd.org.rs/index.php/%D0%BF%D0%BE%D1%87%D0%B5%D1%82%D0%BD%D0%B0/home-page>

Three Plenary Lectures, four Invited Lectures, seven oral and more than 90 poster presentations, including seven from the field of electrochemistry

#### 4. Meetings of the Electrochemical Division of the Serbian Chemical Society

##### September 13, 2016

Lecture: **Dr Nenada Marković**, Argonne National Laboratory, USA:  
*Past, present and Future of Electrochemistry*

##### September 19, 2016

Lecture: **Dr Jasna Janković**, Automotive Fuel Cell Cooperation Corp. (AFCC) 9000 Glenlyon Parkway, Burnaby BC, CANADA  
*Nove metode fabrikacije i strukturne analize materijala za gorivne ćelije / New methods of fabrication and structural analysis of fuel cell materials*

##### December 15, 2017

Lecture: **Dr Marijane Kraljić Roković**, Faculty of Chemical Engineering and Technology, University of Zagreb, Croatia:  
*Elektrokemijski pristup procesu raslojavanja grafita i pripremi grafena / Electrochemical approach for exfoliation of graphite and graphene production*

**May 30, 2018.**

A series of lectures dedicated to the deceased member of the Division, **Professor Nedeljko Krstajić**. Four associates of Dr Krstajić presented a review of the results of their joint researches:

**Prof. Dr Velimir Radmilović**, member of the Serbian Academy of Sciences and Arts, Faculty of Technology and Metallurgy, University of Belgrade, Serbia:

*Novel nanostructured materials for energy conversion*

**Dr. Maja Obradović**, Institute of Chemistry, Technology and Metallurgy, University of Belgrade, Serbia:

*The influence of the oxide carrier of the Pt and PtRu nanoparticles on the electrochemical oxidation of methanol and the H<sub>2</sub>/CO mixture in the acidic medium*

**Dr Nevenka Elezović**, Institute for Multidisciplinary Research, University of Belgrade, Serbia:

*Synthesis and characterization of nanostructured catalysts on metal oxide carriers for application in low temperature fuel cells*

**Dr Uroš Lačnjevac**, Institute for Multidisciplinary Research, University of Belgrade, Serbia:

*Development of new electrode materials for hydrogen and oxygen evolution within the project OI172054 in the period from 2011 to 2017.*

- 5. XX·YuCorr** (*Meeting Point of the Science and Practice in the Fields of Corrosion, Materials and Environmental Protection*) was held on **May 21-24, 2018**, Hotel OMORIKA, Tara Mountain, Serbia, organized by the Serbian Society of Corrosion and Materials Protection – UISKoZaM - <http://sitzam.org.rs/YUCORR/>. Conference was sponsored by ISE. Report was available on ISE web site: <http://www.ise-online.org/ise-sponsoring/reports/2018/REPORT-Yucorr-2018.pdf>
- 6.** Serbian members of the Scientific Committee of the Association of South-East European Electrochemists (ASEEE) have actively participated in the creation of the association's website [www.aseee.eu](http://www.aseee.eu) and preparations for the 7<sup>th</sup> Regional Symposium on Electrochemistry of South-East Europe, which will take place in the last week of May 2019 in Split, Croatia.
- 7.** At the end of 2017 a Serbia (Institute of Chemistry, Technology and Metallurgy, Department of Electrochemistry) - Croatia (Faculty of Chemical Engineering and Technology) bilateral cooperation project **High Power Graphene/Redox Pseudocapacitive Materials Based Electrochemical Supercapacitors** was successfully concluded.



Aleksandar Dekanski

[Dekanski@ihm.bg.ac.rs](mailto:Dekanski@ihm.bg.ac.rs) <http://elchem.ihm.bg.ac.rs>

# Faculty of Natural Science

## Chemistry Department

Private Bag X17, Bellville, 7535  
South Africa  
Tel: +27 (0) 21 959-3051/6  
Fax: +27 (0) 21 959-1316  
E-mail: [pbaker@uwc.ac.za](mailto:pbaker@uwc.ac.za)

31 July 2018

### REGIONAL REPORT SOUTH AFRICA

at

### *The 69th Annual Meeting of the International Society of Electrochemistry*

From Knowledge to Innovation, 2 - 7 September 2018 Bologna, Italy

#### **Preparation for ISE 2019:**

The 70th ISE meeting to be held in Durban, South Africa, 4-9 August 2019. Prof Kenneth Ozoemena (conference chair) has prepared a presentation and video which he will share at the AGM and division officers meeting, at the annual meeting in Bologna. The regional representative has solicited support from the National Research Foundation (South Africa) and the Department of Science and Technology, to provide conference funding particularly in support of mobility for African scholars to participate in the ISE annual meeting, (Durban, 2019)

#### **Satellite meeting hosted in Cape Town:**

The South African Chemical Institute has executively approved the hosting of the 5<sup>th</sup> International symposium on Electrochemistry in Cape Town, South Africa from 11-14 August 2019. The meeting has been co-ordinated to follow on immediately after the ISE annual meeting in Durban, in order to encourage delegates of the ISE annual meeting, to attend and support the local electrochemistry activities and capacity building in South Africa in the broader context. Hence the meeting theme has been coined as Electrochemistry at Nanostructured interfaces (which may yet be revised). The ElectrochemSA symposium will take place at the University of the Western Cape from 11-14 August 2019, 10km away from Cape Town International Airport. Provisional scope and contact details are available at [http://www.saci.co.za/ElectrochemSA/5th\\_First\\_announcement.html](http://www.saci.co.za/ElectrochemSA/5th_First_announcement.html)

#### **Regional representative activities:**

Priscilla Baker was the co-ordinator for symposium 1 "New Experimental Trends in Analytical Electrochemistry" of 68<sup>th</sup> ISE meeting (68<sup>th</sup> Annual meeting, Providence, USA) assisted by Carol Korzeniewski (Texas Tech University, USA), José M. Pingarron, (Complutense University of Madrid, Spain) and Philippe Buhlmann (University of Minnesota, USA). Representatives from South Africa who will attend the Providence meeting include the following collaborators Prof Arotiba and three of his researchers (University of Johannesburg), Dr Jessica Chamier (University of Cape Town), Dr Masikini and Makelane (SensorLab, UWC) as well as Dr Phillippe Banet (France) who will be presenting the collaborative research of a c-tutelle shared PhD student, between University of the Western Cape (South Africa) and his host institution.



***Electrochemistry activities in South Africa:***

The South African Chemical Society electrochemistry chapter (Prof Baker, chairperson) hosted its 4<sup>th</sup> International symposium on Electrochemistry, 3-5 April 2018 at the University of Johannesburg (South Africa). The local organising committee was headed by Prof Omotayo Arotiba. At a meeting of the society chapter an official election was held at which occasion, Prof Arotiba was voted in as the new chairperson of ElectrochemSA for 2018 and beyond.

[http://www.saci.co.za/ElectrochemSA/symposium\\_home.html](http://www.saci.co.za/ElectrochemSA/symposium_home.html)

***ISE Membership:***

The membership totals have remained steady and support and commitment to ISE meetings and objectives have been consistent. Various membership drives have been initiated to increase the South African and regional membership status.

***Member participation at ISE events:***

- (i) 23<sup>rd</sup> ISE Topical Meeting – Vilnius, Lithuania, 8-11 May 2018.  
Prof P Baker (University of the Western Cape)
- (ii) 22<sup>nd</sup> ISE Topical Meeting- Tokyo, Japan, 15-18 April 2018  
Prof E Iwuoha (University of the Western Cape)

***ISE sponsored events:***

There are no ISE sponsored meetings for the reporting period.

Sincerely,

Yours sincerely,

  
Prof. Priscilla G L Baker

**PROF PRISCILLA G L BAKER**  
**REGIONAL REPRESENTATIVE FOR SOUTH AFRICA**





### Members

According to the Member Directory of ISE, the number of members from Spain is currently 119 coming from Universities, Research Institutes of CSIC, Technological centers and Spin-offs. The number has been stable during the last years.

### Activities

- The ISE-sponsored *XXXIX Meeting of the Electrochemistry Group of the Royal Spanish Society of Chemistry and 3rd E3 Mediterranean Symposium: Electrochemistry for Environment and Energy* attended by more than 200 people, was hold in Madrid (Spain) between July 2<sup>th</sup> and 5<sup>th</sup> 2018. It was organized by Dr. José Manuel Pingarrón (chair) from Universidad Complutense de Madrid. Plenary lectures were delivered by Prof. Alain Walcarius (Lorraine University, France), Prof. Ángela Molina, (Universidad de Murcia , Spain), Prof. Héctor D. Abruña, (Cornell University, USA).

-During the Meeting, 10 PhD students defended their Thesis Plan and 8 Master students presented their Master Research work in Electrochemistry. The registration fees of all these students were sponsored by the ISE-Spanish Group.

- The interuniversity master degree on electrochemistry - "*Electrochemistry: Science and Technology*" had his sixth edition. 12 students registered for this edition of the master degree. The compulsory part of the degree took place in Alicante during January and February 2018. It is coordinated by Prof. Vicente Montiel (University of Alicante) and it is offered in 9 different Spanish universities

- 10 new students entered during the 2016/2017 academic year in the interuniversity PhD program on electrochemistry - "*Electrochemistry: Science and Technology*". The program is offered in 11 Spanish Universities and has the certification of excellence from the Spanish Ministry of Education.

July 16<sup>th</sup>, 2018

Enrique Herrero

Spain ISE Regional Representative

Universidad de Alicante.



## **ISE Annual report 2018 (Sweden) for the RR meeting in Providence 2018.**

### **Membership:**

The number of Swedish members 2018 is quite stable. In August 2018 we had 46 members, which is a slight decrease from last year's 50 members. Largest group of members are active at Uppsala University followed by KTH Royal University of Technology, Stockholm University, Chalmers University of Technology, and Göteborg University but there are also members from Lund, Malmö, Linköping and Umeå Universities. In addition, several electrochemists from Swedish industry are participating. Participation in Division 3 and 4 dominates but there are Swedish members in all divisions.

### **Activities:**

At the ISE annual meeting in Providence 2017, Swedish members were contributing with 5 oral presentations and 1 poster.

At the ISE annual meeting in Bologna 2018, 17 oral presentations and 9 posters have a Swedish affiliation.

### **ISE sponsored meetings in Sweden:**

No ISE sponsored meetings took place in Sweden 2017.

Rakel Wreland Lindström, PhD  
Regional representative ISE Sweden

Associate Professor  
Applied Electrochemistry,  
School of Chemical Science and Engineering,  
KTH Royal Institute of Technology, Sweden

tel +46 (0)8 7906615,      email: [wreland@kth.se](mailto:wreland@kth.se)

# ISE - ANNUAL REPORT 2017/2018 Switzerland

Department of Chemistry and  
Biochemistry

PD Dr. Peter Broekmann  
Lecturer/group leader  
ISE representative in Switzerland

Phone.: +41 (0)31 631 4317  
E-Mail: peter.broekmann@dcb.unibe.ch

Bern, 06/08/2018

1. We have currently **62 active ISE members** in Switzerland.
2. Three ISE sponsored meetings have been organized in 2017/2018

5-9 March 2018 \*\* (Sponsored by Division 3)

**International Winter School: *Challenges and Opportunities in Energy Research (NRG2018)***

Crans-Montana, Switzerland

Contact: Raffaella Buonsanti; [raffaella.buonsanti@epfl.ch](mailto:raffaella.buonsanti@epfl.ch)

<https://nrg2018.epfl.ch/>

12-13 April 2018 \*\* (Sponsored by Divisions 3 & 5)

15th Symposium on Modeling and Experimental Validation of Electrochemical Energy Devices

(ModVal 2018)

Aarau, Switzerland

Organizers: Felix N. Büchi, Erik J. Berg, Jens Eller, Lorenz Gubler

<http://www.modval2018.ch>

27-31 August 2018 \*\* (Sponsored by Executive Committee)

**International Summer School: *Power to X: Fundamentals and Applications of Modern Electrosynthesis***

Villars-sur-Ollon, Switzerland

Contact: Peter Broekmann; [peter.broekmann@dcb.unibe.ch](mailto:peter.broekmann@dcb.unibe.ch)

<https://power2x.dcb.unibe.ch/index.shtml>

With best regards,



Regional Representative Meeting  
ISE Annual Meeting 2018, Bologna, Italy

Annual ISE Regional Report of Taiwan

July 31, 2018

Regional Representation of Taiwan has been established in the end of 2014. ISE active members from Taiwan increase dramatically from less than 10 people in 2013 to more than 270 members by the date of reporting. In 2018, several local activities have been engaged or planned. They are summarized below.

In March, we submitted a proposal for an ISE Topical Meeting entitled “Metal Deposition for Semiconductor and Green Energy,” which will be held in Tainan, Taiwan in Spring, 2020. The targeted number of participants in this meeting is 150-250 people with expected duration of 3 days. The venue will be in the International Conference Hall of National Cheng Kung University in Tainan, Taiwan. We are confident of organizing this event under the ISE guidelines and financial constraints, without sacrificing the comfort or convenience of the participants. The proposal of Topical Meeting 2020 Tainan was officially approved in the Executive Committee meeting on March 24<sup>th</sup>.

In June, we had meetings with Taiwan Printed Circuit Association (TPCA) and reached an agreement to co-host workshops for developing materials related to electrochemistry and interface science, which are crucial topics for the promotion of printed circuit companies. The purpose of the workshops is envisaged to facilitate the dialogues between universities and companies, so as to speed up more knowledge and technology transfer between research teams and companies.

A two-day electrochemical workshop will be taking place from 9/6-9/7, 2018 at National Cheng Kung University in Taiwan. 11 different lectures are planned to cover fundamentals, and major applications, such as energy conversion & storage, analytics, sensors, ..., etc. The audience comprises of young post graduate students and

industrial professionals, especially R&D teams from companies located in neighboring science parks. The fundamental courses emphasize on the RDE/CV and EIS impedance techniques to enhance the understanding of practical experimental skills. In addition, a special technical session about lithium ion batteries is designed to demonstrate new material development, production, and applications as well as possible academic-industrial cooperation.

The 2018 (4<sup>th</sup>) International Conference of Green Energy Technologies (ICGET) is taking place from 11/23-11/24. The conference is anticipated to include 53 of plenary, keynote, and invited speeches, given by international (US, Japan, Korea, etc.) and local scholars from various institutions. More than 80 oral speeches will be accepted and more than 100 poster presentations are expected. A student poster competition is also planned.

These summarize electrochemistry related events in Taiwan in 2018.

Sincerely,

Prof. Hsisheng Teng

ISE Taiwan Representative  
Department of Chemical Engineering  
National Cheng Kung University  
The Electrochemical Society of Taiwan (ECSTw)  
#1, University Rd., Tainan 70101, Taiwan  
hteng@mail.ncku.edu.tw

15/08/2018

## Report of the ISE Regional Representative for the United Kingdom

### Membership

The membership currently stands at 200 members (190 at this time last year).

### Activities

The following ISE sponsored meetings took place:

- Electrochemical Methods in Corrosion Research 2018, 22-27 July 2018, Cambridge.  
(<http://emcrconference.org/>)
- SCI electrochemistry postgraduate conference, 31 May 2017, University of Strathclyde.  
(<https://www.strath.ac.uk/engineering/chemicalprocessengineering/scielectrochemistrypostgraduateconference2018-savethedate>)
- Electrochem 2017, Birmingham University, 10<sup>th</sup>-12<sup>th</sup> September 2017, 200 participants.

### Involvement of UK members in ISE

The following members are currently involved in the ISE organisation or have recently received ISE prizes:

- Andrea Russell: past chair division 7
- Angel Cuesta: chair elect division 7
- Geoff. Kelsall: vice chair division 5
- Patrick Unwin: past chair new topics committee
- Phil Bartlett: ISE president, 2017-2018
- Richard Compton, member of ISE Fellows Nominating Committee (2015-2019)
- Ritu Katakya: vice chair of division 1
- Rob Hillman, Editor in Chief of Electrochimica Acta since 2014
- Tim Albrecht: elected Secretary General for 2018-2020

Yours sincerely



Dr Guy Denuault

Associate Professor of Electrochemistry

Tel: +44 (0)23 80592154

Email: [gd@soton.ac.uk](mailto:gd@soton.ac.uk)

Web: [www.southampton.ac.uk/chemistry/about/staff/gd.page](http://www.southampton.ac.uk/chemistry/about/staff/gd.page)

### **Electrochemistry**

Chemistry, University of Southampton, Highfield Campus, Southampton SO17 1BJ United Kingdom

Tel: +44 (0)23 80593597 [www.southampton.ac.uk/chemistry](http://www.southampton.ac.uk/chemistry)

July 10, 2018

## ISE Annual Report Meeting 2018 - USA

### Memberships

As of today, there are 338 members from the United States, which is up from 246 members last year. This represents an increase when compared to the average number of members over the past five years, which was in the 190s. The increase in the number of members is likely due to the annual meeting in Providence, Rhode Island (there were 258 abstract submissions from the US), as well as a combination of recruitment efforts. Recruitment of members is taking place on an ongoing basis by directly emailing colleagues and talking to them at ISE and ECS meetings. Also, by co-sponsoring meetings, such as the Fuel Cells Gordon Research Conference two years ago and PCET2018 this year.

### Activities

1. Providence 2017 Annual Meeting. The US group, under the leadership of Sanjeev Mukerjee (Northeastern University), Mark Orazem (University of Florida), and Plamen Atanassov (University of New Mexico) -co-chairs for the annual meeting, organized the 2017 Annual Meeting in Providence, Rhode Island on August 27-September 1, 2017. Nineteen symposia topics were submitted by the divisions and approved and local co-organizers were identified for all symposia topics. 1237 abstracts were submitted. Members of the organizing committee of the 2017 annual meeting include:

- Plamen Atanassov, Albuquerque, NM, USA (co-Chair)
- Philip N. Bartlett, Southampton, UK
- Gerardine Botte, Athens, OH, USA
- Ignacio Gonzalez, Mexico, Mexico
- E. Jennings Taylor, Englewood, OH, USA
- Hasuck Kim, Daegu, South Korea
- Daniel Little, Santa Barbara, CA, USA
- Shelley Minter, Salt Lake City, UT, USA
- Sanjeev Mukerjee, Boston, MA, USA (co-Chair)
- Mark E. Orazem, Gainesville, FL, USA (co-Chair)

2. Co-sponsoring of meetings. We have co-sponsored two meetings in the USA: PCET 2018 and the 2018 Fuel Cells Gordon Research Conference. PCET2018 was held June 10<sup>th</sup>-14<sup>th</sup>, 2018 in Blowing Rock, North Carolina with 135 attendees from the US and Europe. The focus of the meeting was on proton coupled electron transfer as it applies to electrocatalysis and photoelectrocatalysis. The Fuel Cells Gordon Conference will take place on July 28-August 3, 2018 in Rhode Island. The focus of the meeting will be on the next generation of durable, high-performance components and fuel cells, including modeling, diagnostics, and materials development advancements.

3. 2020 Topical Meeting – The US group also put in an application for a 2020 Topical Meeting in the United States focused on Electroanalytical Chemistry and Bioelectroanalysis. The meeting will be held in May 2020 at Snowbird, UT. This application was recently approved.

Shelley D. Minter, PhD, Regional Representative for the USA  
USTAR Professor of Chemistry and Materials Science and Engineering, University of Utah