

## Report of activities: Argentine section of ISE

Prepared for the Meeting of Regional Representatives of ISE,  
65th Annual Meeting, Lausanne, Switzerland, August 2014

### Membership

The membership remained almost constant respect to the last year (43 members) although the economical situation in Argentina worsened significantly. This is at variance with the past, when every time an economical crisis arose, the membership automatically decreased. During the last meeting of the Iberoamerican Society of Electrochemistry (SIBAE), which was held in Chile in April, I contacted several SIBAE members that were not members of ISE and some of them expressed their interest on becoming (or returning to be) also members of ISE. Accordingly, I expect a slight increase in the membership during the next months.

### Activities

I have participated in the Queretaro ISE meeting and in the meeting of the ISE Regional Representatives. The presence of Argentina ISE members in Queretaro maintained the increase exhibited since Praga, respect to previous meetings, and about 25% of the Argentina members were present in Mexico. During the ISE Meeting I contacted colleagues of Argentina in order to promote the possibility of organising a Topical Meeting in Argentina with the participation of different research groups in the country. As a result, we agreed to propose a theme that would be of interest for the region and involve as much as possible the different electrochemical groups of Argentina. Therefore, after the Meeting in Querétaro we worked on a proposal for organising a Topical Meeting in 2017 in Buenos Aires, under the title "Advances in Lithium and Hydrogen Electrochemical Systems for Energy Conversion and Storage". This proposal is under consideration by ISE. Furthermore, Dr. M. E. Vela is participating in the organisation of the Topical Meeting to be held in France next year. Finally, as pointed above, I also participated with some other members of the Argentina section in the last SIBAE meeting, which was sponsored by ISE.

Best regards,



Agustin E. Bolzan  
Regional Representative for Argentina

# **Report of the ISE Regional Representative for Australia 2014**

***Dr. Conor Hogan***

## **Membership**

The number of Australian ISE members has decreased since the last report and now stands at 79.

## **Activities**

An ISE sponsored student focussed conference titled “The Future of Australian Electrochemistry” was held on 25 November 2013 in Melbourne, Australia. This postgraduate student-focussed meeting preceded the 19<sup>th</sup> Australian/New Zealand Electrochemistry Symposium (19ANZES) held at the same venue and aimed to promote networking and highlight the diversity of the electrochemical research taking place in Australia and New Zealand. Speakers included Prof. David Williams from the University of Auckland, New Zealand and Prof. Julie Macpherson from the University of Warwick, UK. The number of applicants at this joint meeting exceeded our expectations: in total there were over 120 delegates, representing most of the major electrochemistry groups in Australia and New Zealand. Over the two days, there were 4 plenary lectures, 45 oral presentations and 42 poster presentations.

## **Other**

Prof. Alan Bond (Monash University, Melbourne, Australia) was awarded the ISE’s Electrochimica Acta Gold Medal.



## ISE Report from the Belgian Regional Representative

August 2014

### Members

Since 2011, the number of members is at least 40. Presently ISE counts 47 persons registered as Belgian members. These members are for  $\frac{3}{4}$  belonging to universities and for  $\frac{1}{4}$  to public research institutions or companies. Moreover, nearly half of the members do not received yet a PhD.

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

- Division 4: Electrochemical Materials Science – 22 members
- Division 3: Electrochemical Energy Conversion And Storage – 20 members
- Division 2: Bioelectrochemistry – 15 members
- Division 5: Electrochemical Process Engineering And Technology – 13 members
- Division 7 Physical Electrochemistry – 12 members
- Division 1: Analytical Electrochemistry - 10 members
- Division 6 Molecular Electrochemistry – 8 members

### Activities

- On October 17<sup>th</sup> was organized at the Université Libre de Bruxelles an electrochemical seminar. Prof. Jacek Lipkowski gave a lecture entitled “Building biomimetic membranes at gold electrode surfaces”
- On November 2013, the annual KNCV (Koninklijke Nederlandse Chemische Vereniging) symposium, on the theme of Electrocatalysis, was held at the University of Leiden. This is a common meeting for fundamental and applied electrochemistry experts from the Netherlands and Belgium. Tom Breugelmans and Thomas Doneux are the Belgian members of the organization committee. In 2014, the symposium will be organized in Antwerpen, Belgium and the theme will be “Electrochemistry in non-traditional media”.
- Belgian electrochemists have actively contributed by two oral presentations at the 15<sup>th</sup> Topical Meeting on Interfacial Electrochemistry organized from April 27th to 30th in Niagara Falls, Canada.
- Several electrochemists from Belgium will attend the next Annual ISE Meeting in Lausanne.

Prof. Claudine Buess-Herman

## Report of the ISE Regional Representative of Brazil 2014

### Membership

The number of ISE members has grown from 62 in December 2011 to 90 in July 2012, 110 in July 2013, remaining more or less constant after that and reaching 107 members in July 2014.

### Activities

1) Participation in the Queretaro ISE scientific meeting and in the meeting of the ISE Regional Representatives.

2) Participation of in ISE sponsored meeting: XXI Congreso de la Sociedad Iberoamericana de Electroquímica (SIBAE), La Serena (Chile), 6 to 11 April, 2014

3) Forthcoming meeting: **16<sup>th</sup> ISE Topical Meeting**, organized by Romeu C. Rocha-Filho (S. Carlos Federal University, S. Carlos, Brazil) and Greg M. Swain (Michigan State University, East Lansing, USA). Theme “Electrochemical Properties and Applications of Advanced Carbon Materials”; 22-25 March 2015. Vila Galé Eco Resort de Angra, Angra dos Reis, Brazil.

Home page (initial informations): <http://topical16.ise-online.org/index.php>

Keynote Speakers:

- Robert H. Hurt (Brown University, USA)
- Richard L. McCreery (University of Alberta, Canada)
- Christoph E. Nebel (IAF – Fraunhofer Inst. of Appl. Solid State Physics, Germany)
- Rodney S. Ruoff (University of Texas Austin, USA)
- Prashant V. Kamat (University of Notre Dame , USA)

Best Regards

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## INTERNATIONAL SOCIETY OF ELECTROCHEMISTRY

### REPORT of Republic Bulgaria 2013/2014

#### Membership

For the moment the membership of the Bulgarian section of ISE is constant - 16 persons. We are expecting an increase of the membership in 2015 connected with the organization of the the 10th International Symposium on Electrochemical Impedance Spectroscopy 5<sup>th</sup> Regional Symposium on Electrochemistry – South-East Europe.

#### Activities

1. In 2013 the Bulgarian section actively participated in the 4<sup>th</sup> Regional Symposium on Electrochemistry – South-East Europe (Ljubliana) – with members in the Scientific and Organizing Committees
2. In June 2014 the 10th International Symposium on Electrochemical Impedance Spectroscopy was organized in Bulgaria as ISE sponsored event. The purpose of EIA10 was to provide a common platform for scientists and experts from different countries to share knowledge and ideas on impedance data analysis, which is the crucial step in every electrochemical impedance spectroscopy investigation. There were 52 participants from 18 countries that presented: 7 plenary, 23 oral presentations and 10 posters (with 10 minutes oral presentation), including young scientists dedicated session with awards.
3. In June 2014 the 9th International Symposium on Lead Acid Batteries was organized in Bulgaria. The event was included in the ISE Calendar. More than 300 participants gave 70 oral and 20 poster presentations. Forty companies took part in the exhibition. The topic of the pre-conference seminar was on Batteries for Hybrid and Start-Stop.
4. In June 2015 the 5th Regional Symposium on Electrochemistry South-East Europe will be organized in Bulgaria with the satellite “Sofia Electrochemical Days. The organization is in progress. For a first time 15 from the 17 countries from the region have a representative in the Scientific Committee.

08.08.2014

Zdravko Stoynov

Regional Representative of Bulgaria



Prof. Yunny Meas  
*Vice President, International Society of Electrochemistry*  
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**MEXICO**

August 21<sup>st</sup>, 2014

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Re. Regional Representative's Report – Canada

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Dear Professor Meas:

Canadians are active members of the International Society of Electrochemistry (ISE) and participate in its annual and topical meetings. The number of Canadian members of ISE has increased from 86 in July 2013 to 122 in August 2013 (a 42% increase). This substantial increase in the ISE membership is most likely associated with the ISE Spring Topical Meeting held in Niagara Falls, Canada, 27-30 April 2014.

Recent and new activities in Canada in 2014-2015:

1. A topical meeting entitled “Interfacial Electrochemistry at Atomic, Molecular and Nanoscale Domains”, Niagara Falls, Canada, April 27<sup>th</sup>–30<sup>th</sup>, 2014; and
2. International Symposium on Electrocatalysis 2014, “Explorations of the Volcano Landscape”, Whistler, B.C., Canada, October 26<sup>th</sup>–29<sup>th</sup>, 2014.

The International Symposium on Electrocatalysis 2014, which is sponsored by ISE, will become a unique opportunity for the recruitment of new Canadian ISE members.

Please, do not hesitate to contact me should you require any additional information or clarification.

Yours truly,

Gregory Jerkiewicz, Ph.D., M.Eng.  
Professor  
Canadian Regional Representative

## ISE-Caribbean Regional Section Annual Report 2013/ 2014


After request from some ISE members of Venezuela, Colombia and Puerto Rico to constitute the ISE- Caribbean Regional Section, the proposal was approved by the Executive Committee of the Society at January 2014.

Currently, there are the following members of Caribbean Regional Section:

Colombia: 12  
Venezuela: 8  
Puerto Rico: 4

By first time we will attend the “I Congreso Colombiano de Electroquímica” at 9 - 10 October 2014. It will be the opportunity for encourage the Colombian electrochemists to participate of the ISE.

Unfortunately, I will not be able to come to Lausanne, but I hope my colleague of the Caribbean region will attend the meeting.

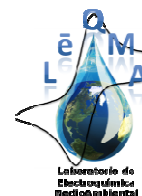


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**D. Sc. Jorge Andrés Calderón G.**  
**Representative of the ISE Caribbean Region**  
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## **International Society of Electrochemistry**

### **Annual ISE report of Chile – 2013/2014**

- 1.- Currently, there are 39 ISE members in Chile (July, 2014).
- 2.- In April 2014, was realized the XXI Meeting of the Sociedad Iberoamericana de Electroquímica, SIBAE 2014, in La Serena, Chile. We had the presence of 400 participants at the Meeting.
- 4.- As representative of the ISE I applied to Dr. José Zagal to the ISE Fellows. Now Chile has its first ISE fellow!!!

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

9<sup>th</sup> July, 2014



# ISE report 2014 -China

## **MEMBERSHIP**

China has 174 members of ISE now. In comparison with 148 members last year, 17.6% increase is accounted.

## **ORGANIZED MEETINGS**

### **1. The 17<sup>th</sup> National Electrochemistry Conference of China**

Chinese Society of Electrochemistry (CSE) organizes regularly national electrochemistry conference every two years. The 17<sup>th</sup> National Electrochemistry Conference of China was held in Suzhou in November 15-17, 2013. More than 2,600 representatives were attended in the conference. The representatives were from different universities, institutes, enterprises in China. The conference has attracted also some foreign scientists, including ECS president Prof. Paul Kohl, ECS Executive Director Roque Calvo, ECJ president Prof. Tomokazu Matsue, and Canada research chair Prof. Jacek Lipkowski. The theme of the conference was “New Energy & Electrochemistry in Low-Carbon Economy”. The conference focused on foundations and cutting-edge issues in electrochemical science and technology domain, including basic electrochemistry, lithium ion batteries, fuel cells, supercapacitors, other batteries, biological and electrochemical analysis, nanotechnology and materials electrochemistry, organic and industrial electrochemical, photoelectrochemical, etc.

### **2. Electrochemical Conference on Energy & the Environment (ECEE2014)**

The 2014 Electrochemical Conference on Energy & the Environment that was co-hosted by the Electrochemical Society (ECS) and the Chinese Society of Electrochemistry (CSE) was held in Shanghai, China from March 13 to March 16, 2014. A total number of 623 representatives attended the conference. They were from different universities, institutes, enterprises in more than 10 countries and regions. The conference not only offers a unique topics of energy and the environment, but also serves as a major forum for the discussion of interdisciplinary research from around the world through a variety of formats such as oral presentations (including invited and keynote talks), poster sessions and exhibits.

### **3. The 14th ISE Topical Meeting**

The 14th ISE Topical Meeting was held in Nanjing, China, from March 29th to April 1st, 2014. The main theme of the 14th ISE Topical Meeting was electrochemical methods for life science and bioanalysis. 168 participants came from 14 countries, such as France, USA, Switzerland, England, Sweden, Ireland, South African, Kenya, Japan, Korea, Singapore and China. The meeting has received 143 registered abstracts in bioelectroanalytical methods and bioelectrochemistry, including 5 keynote lectures, 37 invited and 44 oral presentations, and 57 poster presentations.

#### **4. The 14<sup>th</sup> National Conference on Organic Electrochemistry & Industry**

The National Conference on Organic Electrochemistry & Industry was held for every two years. The 14<sup>th</sup> National Conference on Organic Electrochemistry & Industry will be held in Haikou city, Hainan province, in August 28-30, 2014. More than 100 representatives will attend the conference. The theme of the conference is “Technological Innovation and Application, Industrial Transformation and Upgrade”. It involves fundamental and industrial applications of organic electrochemistry and related fields.

The Chinese Society of Electrochemistry (CSE),

Shi-Gang Sun, ISE Regional representative of China

2014/7/21



## ISE - ANNUAL REPORT FOR CROATIA / HRVATSKA 2013 / 2014

### **Number of members:**

The current number of ISE members in Croatia / Hrvatska is 27. In this period we got a new member Jozefina Katić (above age of 30).

### **Activities:**

The 4th Student Symposium on Electrochemistry ISE Satellite Student Regional Symposium on Electrochemistry and 4. Day of Electrochemistry took place on 04 April 2014 at the Rudjer Boskovic Institute in Zagreb, Croatia / Hrvatska.

Totally 10 participants for ISE-SSRSE (3 undergraduate and 5 graduate students, as well as 2 participants with PhD) from different universities and institutes described their investigations through oral presentations. The traditional ISE Satellite Student Regional Symposium on Electrochemistry was made possible through the financial support of ISE.

The program of symposium was divided into three sections: 1. Physical electrochemistry and electrochemistry of materials, 2. Bioelectrochemistry and 3. Analytical electrochemistry. Within the first group there were three lectures: “Electrochemical impedance spectroscopy: Advantages and disadvantages”, held by Katja Magdić, “Electrochemical methods for optimization of biocompatible metal implant surfaces under real physiological conditions: deposition of hydroxyapatite on Nitinol” by Jozefina Katić and “Electrochemically synthesized graphene oxide/polypyrrole composites and their use as active materials in supercapacitors”, by Gabriela Ljubek.

This time the meeting was organized by Petra Vukosav.

The details for 4. Day of Electrochemistry please see on [www.elektrokemija.com](http://www.elektrokemija.com).

This year again undergraduate students from Faculty of Chemical Engineering and Technology in Zagreb, University of Zagreb, Croatia / Hrvatska have visited aluminum production plant (Aluminij d.d.) in Mostar, Bosnia and Herzegovina . International Society of Electrochemistry has supported this visit and partially covered transportation expenses from Millennium Fund.

Some of our members will be present on our 65<sup>th</sup> meeting in Switzerland.

Šeojka Komorsky-Lovrić

ISE-RR of Croatia / Hrvatska

Zagreb, 20. 07. 14.



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July 8, 2014

## **REPORT 2014 of the ISE Regional Representative – Czech Republic**

### **Membership**

Current status of the membership from the Czech Republic is 56 members (Prof. Vetterl passed away in 2013, though this has not been reflected in the membership directory available on the www pages of the society), whereas in 2013 the membership was 47. We are pleased to notice that a lot of young people joined the society. This significant increase is without doubt due to increased publicity of the ISE at the international meetings held in the Czech Republic, in which PhD students participate in larger proportion compared to the conferences abroad. PhD students are important target group in 2013 and remain so in 2014. RR will try to keep interest of this membership after completion of their studies. This is also connected with the possibility to work in the field of Electrochemistry after graduation. Additional recruitment was attempted via invitation letters based on the *Electrochimica Acta* publications.

### **Activities**

Main activities in 2014 were connected with preparation of two ISE sponsored international electrochemical meetings: 34<sup>rd</sup> International Conference on Modern Electrochemical Methods, Jetřichovice, 19 - 23 May 2014 and 47<sup>th</sup> Heyrovský Discussions entitled ELECTROCHEMISTRY OF ORGANIC AND BIOACTIVE COMPOUNDS, Třeřt, 25-29 May, 2014. These meetings provided good opportunity for the students to learn more about the ISE society and membership advantages.

### **Other**

Two candidates (ISE members) were selected by the vote of the Czech ISE membership to be nominated by RR for (i) Brian Conway Prize for Physical Electrochemistry (Prof. Samec) and (ii) Jaroslav Heyrovsky Prize for Molecular Electrochemistry (Prof. Pospisil). The results are not known to RR at this moment.

Prepared by:  
Magdaléna Hromadová  
Regional Representative  
Czech Republic

**International Society of Electrochemistry**  
**Annual Regional Report of Denmark**  
**July 2014**

21. July 2014

## 1. ISE members

By the date of reporting there are 38 ISE members in Denmark, increased by 1 since the last report by August 2013.

## 2. Activities during the reporting period

In association with an annual meeting of a PEMFC-focused research centre (4M Centre funded by The Danish Council for Strategic Research), a one-day ph.d. seminar was organized, involving several ISE members, on Electrochemical Impedance Spectroscopy. The seminar was held at Aalborg University 20th May 2014 with about 30 participants.

The Danish Battery Society (DBS) organized the 2014 symposium with program covering current and future battery activities in Denmark. The symposium was held on Friday, 28th of February 2014 at Haldor Topsøe A/S in Lyngby near Copenhagen.

Another DBS organized workshop was on Wednesday the 21st of May at Department of Energy Technology, Aalborg University. The workshop was devoted to discussion and sharing of the knowledge and experience on different battery testing protocols within the DBS members.

The 3rd Summer School on "**Reactivity of nanoparticles for more efficient and sustainable energy conversion**" - with the subtitle "**Rising technologies**", with active ISE members as organizers (Ifan Stephens and Ib Chorkendorff, CINF, DTU), is to be held at the Conference Center Kobæk Strand, the west coast of Zealand, Denmark. A list of internationally known experts with complementary backgrounds in the theoretical and experimental aspects of photo catalysis, electro catalysis and heterogeneous catalysis are invited to present a span of lectures from basic concepts to cutting edge research. This is also an ISE sponsored event.

Qingfeng Li  
The ISE Representative in Denmark



## ISE REPORT 2014

### ISE Membership

By the date of reporting there are 33 ISE members in Estonia, increased by 3 since the last report (August 2013).

### Research activities and conferences

A lot of Estonian electrochemists attended the 64th ISE Annual Meeting in Santiago de Querétaro, Mexico (September 8-13, 2013). Some of the ISE members of Estonia also participated at the 15th Topical Meeting of the ISE, Interfacial Electrochemistry at Atomic, Molecular and Nanoscale Domains, Niagara Falls, Canada, (April 27-30, 2014).

ISE Members have also been active in several other international meetings and conferences related to electrochemistry as follows:

- 13th International Symposium on Solid Oxide Fuel Cells, Okinawa, Japan, (October 6–11, 2013);
- 224th ECS Meeting, San Francisco, USA, (October 27–November 1, 2013);
- Winter seminar "Latest Developments in Electrochemical Capacitors", Tartu, Estonia, (December 16–18, 2013);
- 23rd Australian Conference on Microscopy and Microanalysis (ACMM23) and the International Conference on Nanoscience and Nanotechnology (ICONN 2014), Adelaide, Australia, (February 2–6 2014);
- International conference "Functional materials and Nanotechnologies-2014", Tartu, Estonia (March 4–5, 2014);
- Electrochemical Conference on Energy & the Environment (ECEE), Shanghai, China, (March 13–16, 2014);
- 225th ECS Meeting, Orlando, FL, USA, (May 11–16, 2014);
- International Conference on Advanced Capacitors, Osaka, Japan, (May 27–30, 2014).

PhD students and young scientists from Tartu University, Tallinn University and Tallinn University of Technology are encouraged to become part of the ISE research community with the opportunity to participate in conferences and workshops, present and publish the research results.

### Election of a new regional representative

Dr. Eneli Härk was elected as regional representative for Estonia in December 2013.

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ISE Regional Representative of Estonia  
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Tartu, July 2014

## ISE REPORT 2014 from the Regional Representative Finland

### Election of a new regional representative

A new regional representative for the term 2014 to 2016 was duly elected: Ben Wilson of Aalto University School of Science and Technology has replaced Rose-Marie Latonen of Åbo Akademi University and we all thank Rose-Marie for all her valuable contributions.

### Members

The number of ISE members within Finland is currently 27 but as a significant number of postgraduate students based in Finland will be attending this year's ISE Conference in Lausanne it is hoped that this number will gradually increase over the coming year. In addition, current ISE member, Professor Lasse Murtomäki has recently been appointed as the new chair of Physical Chemistry and Electrochemistry at Aalto University demonstrating electrochemistry's continuing importance within the Finnish research community.

### Activities

A number of members attended the ISE meeting in Niagara Falls, Canada representing several of the ISE divisions. There will also be a strong presence from Finland at this year's Annual Meeting in Switzerland, including an invited presentation by Johan Bobacka. Moreover members have also been active in several other conferences related to electrochemistry, polyelectrolytes, energy technologies, electrochemical sensors and conducting polymers.

### Future Plans

As a surplus of the organization of the past 9th Spring Meeting in Turku, Finland, in 2011, our Regional Section has been allocated some money to the benefit of the local ISE members. It is anticipated that this money will be used to organize a one-day electrochemistry symposium in 2015 in Espoo at Aalto University, possibly in conjunction with the next Baltic Electrochemistry Conference (BEC).

Unfortunately, I will not be able to attend the ISE meeting in Lausanne, for which I send my sincerest apologies.



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



## ISE report 2013-2014 (France)

### MEMBERSHIP

France has now **233 members** (224 members in 2013, 250 members in 2012).

### SPONSORED MEETINGS

- 1- Thematic School “BIODEMAT 2014”, co-organised by I. Frateur, F. Feugeas, R. Sabot and B. Tribollet

**BIODEMAT 2014 “Biodétérioration des matériaux : interactions biofilms-alliages métalliques ou bétons”**

**Dates:** October 12-17, 2014

**Location:** La Rochelle

**Sponsored by:** Executive Committee

Registration fees for two students will be paid thanks to the ISE support.

- 2- National meeting: “**Journee Toulousaine d’Electrochimie**” (JTE 2014)

**Date:** 20 July, 2014

**Location:** Toulouse

**Sponsored by:** Executive Committee

The book of Pr. Allen Bard has been offered to the PhD students presenting an oral communication.

### ACTIVITIES

The **17<sup>th</sup> ISE Topical Meeting** will be held in **Saint-Malo** in the “Palais du Grand Large” in the heart of the city, from 31 May – 3 June, 2015. The theme is: “**Multiscale analysis of electrochemical systems**”. I will present the Topical Meeting in Lausanne, during the General Assembly.

*July 31, 2014*

*Nadine Pebere  
Regional Representative for France  
Institut Carnot CIRIMAT  
Toulouse, France*

## ISE Report 2013-2014 - Germany

Membership: 223 (from **231 members** on august 16<sup>th</sup> 2013). The difference is due to the large fluctuations within a year.

past ISE and ISE Sponsored meetings:

-

other electrochemistry meetings in Germany:

**14<sup>th</sup> Ulm ElectroChemical Talks**, June 23-26, 2014

ISE sponsored Meetings to come in 2014:

**Electrochemistry 2014: Basic Science and Key Technology for Future Applications** Mainz (22. to 24. September)

**7th International Workshop on Impedance Spectroscopy (IWIS)**, Chemnitz, 24-26 September 2014

**1st Gerischer-Kolb Symposium: Electrochemical Surface Science**, Berlin, 15-17 October 2014

**3rd Ertl Symposium on Surface Analysis and Dynamics**, Berlin, 9-12 November 2014

Helmut Baltruschat

## **Report 2014 of the ISE Regional Representative - Greece**

*prepared for the Meeting of the ISE Regional Representatives to be held during the 65<sup>th</sup> Annual Meeting of the ISE in Lausanne, Switzerland on Monday, September 1, 2014*

### **1. Membership**

- The number of ISE members in Greece has increased by ca. 18% since the last RR Meeting in Santiago de Queretaro, Mexico and, at present, the Greek ISE section numbers 32 members. Their preferences in the activities of the different ISE Divisions are as follows:
  - Division 1, Analytical Electrochemistry (10)
  - Division 2, Bioelectrochemistry (1)
  - Division 3, Electrochemical Energy Conversion and Storage (21)
  - Division 4, Electrochemical Materials Science (20)
  - Division 5, Electrochemical Process Engineering and Technology (15)
  - Division 6, Molecular Electrochemistry (5)
  - Division 7, Physical Electrochemistry (10)
- Efforts to recruit new members continue, especially targeting young scientists.

### **2. Activities**

#### **Participation in international conferences *organized or sponsored by the ISE***

- *64<sup>th</sup> Annual Meeting of the ISE, Santiago de Queretaro, Mexico (8-13 September, 2013):*  
Unfortunately, it did not become possible for ISE members from Greece to participate in the 64<sup>th</sup> Annual Meeting of the ISE. However, a significant number of them are expected to participate in the 65<sup>th</sup> ISE Meeting.
- *19<sup>th</sup> Meeting of the Portuguese Society of Electrochemistry & 16<sup>th</sup> Iberic Meeting of Electrochemistry, 30 June-2 July, 2014, Aveiro, Portugal:*  
Two (2) contributions from Greece & participation in the Scientific Committee of the Meeting (Dr. S. Bebelis).

#### **Editorial activities of Greek members of the ISE**

- Dr S. Sotiropoulos (Associate Professor, 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, 25 July 2014

Symeon Bebelis

Associate Professor

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Institute for Solid State Physics and Optics  
Wigner Research Centre for Physics  
Hungarian Academy of Sciences

## **Report of activities: Hungarian section of ISE**

Prepared for the Meeting of Regional Representatives of ISE,  
65<sup>rd</sup> Annual Meeting, Lausanne, Switzerland, September 2013

### 1. ISE members from Hungary

The ISE membership from Hungary was practically stagnant during the last year, similarly to the situation in the earlier period. Now we have 15 Hungarian ISE members. These people belong to traditional research groups dealing with electrochemistry. Although I regularly make an attempt to invite new ISE members from research groups dealing with electroanalysis or other field using electrochemistry as a sample preparation technique, these groups tend to work in a segregated manner. The current level of membership, and, hence, the existence of the national representative status, seems to be sustainable. Since several colleagues from the Hungarian ISE community retired in the last few years, an increase in ISE membership is expected when the new electrochemistry research groups with young leaders get stronger in a few years.

### 2. Scientific activity

Due to the large distance and the financial difficulties, Hungarian ISE members working in Hungary could not attend the previous ISE Annual Meeting in Mexico. Since the last report period, there was no ISE-sponsored international electrochemistry meeting in Hungary. Hungarian ISE members took part in some ISE-sponsored meeting like the 10<sup>th</sup> International Symposium on Electrochemical Impedance Analysis.

Besides the activity our members at the meeting, several Hungarian ISE members indicated that they find an important task to contribute to the level of the society journal, *Electrochimica Acta* with their frequent reviewing activity.



Institute for Solid State Physics and Optics  
Wigner Research Centre for Physics  
Hungarian Academy of Sciences

### 3. Meeting organization

The Hungarian ISE community has submitted a proposal for organizing one of the topical meetings in 2017 in Szeged, Hungary. The proposal will be evaluated in the upcoming annual meeting.

Budapest, 4 August 2014

A handwritten signature in blue ink, appearing to read "László Péter".

László Péter

Scientific advisor

Head of the Electrodeposited Nanostructures Group

Department of Complex Fluids, Institute for Solid State Physics and Optics

Wigner Research Centre for Physics, Hungarian Academy of Sciences

# INDIAN SOCIETY FOR ELECTROANALYTICAL CHEMISTRY (ISEAC)

(Reg. No. MAH/MUM/1173/2006 GBBSD)

C/o Fuel Chemistry Division, Bhabha Atomic Research Centre,  
Trombay, MUMBAI - 400 085, INDIA

Tel : (022) 2559 3740 / 2559 0642 • Fax : (022) 2550 5151, 2551 9613

E-mail : info@iseac.org • Website : www.iseac.org



## Annual Regional Report of India for ISE

July 2014

### 1. ISE Members

I was elected Regional Representative of India, on December 21, 2013, for the period 2014-2016. The total number of ISE Members at present is 29, which is same as was last year. Several electrochemistry groups working in India are aware of the benefits and visibility of ISE in Indian perspectives.

### 2. Activities during the Reporting Period

Indian Society of ElectroAnalytical Chemistry (ISEAC) with its head quarters at Fuel Chemistry Division, Bhabha Atomic Research Centre, Trombay, Mumbai organised 11<sup>th</sup> ISEAC International Discussion Meet on Electrochemistry and its Applications (*11<sup>th</sup> ISEAC-DM-2014*) at Radisson Blu Hotel, Amritsar during February 20-25, 2014. This Discussion Meet was co-sponsored by ISE and Bioelectrochemical Society (BES).

The Discussion Meet was attended by about 150 participants with 20 foreign nationals from 12 countries and delegates from different parts of India. The inauguration function was held in the evening of February 20, 2014 at the venue. Prof. (Mrs.) Ana Maria Oliveira Brett from Portugal, President of Bio-Electrochemical Society (BES) formally released the bound Volume of the Conference Proceedings (Edited by Suresh K. Aggarwal, Saurav K. Guin, Ruma Gupta and Arvind S. Ambolikar; 276 pages; ISBN 978-81- 901950-6-5). Prof. S.K. Aggarwal formally released the Souvenir cum Bulletin of ISEAC entitled *Highlights in ElectroAnalytical Techniques (HEAT)*, Volume 3, Issue I, 2014. Mr. Saurav K. Guin formally released the CD-ROM of the Proceedings and HEAT. 11<sup>th</sup> ISEAC-DM-2014 was spread over 16 technical sessions covering 32 invited talks, 6 short invited lectures, 67 poster presentations, 12 oral presentations by research scholars and 1 vendor's presentation. Invited speakers from overseas included Prof. H. Terryn (Belgium); Prof. K. Vytras and Prof. R. Metelka (Czech Republic); Dr. Frederic Maillard, Dr. J. Gaubicher and Dr. Valentina Ivanova (France); Prof. D. Fattakhova-Rohlfing (Germany); Prof. Hiroshi Nishihara (Japan); Dr. Keith Baronian (Newzealand); Prof. W. Kutner (Poland); Prof. Christopher M.A. Brett and Prof. (Ms.) A.M. Oliveira-Brett (Portugal); Prof. Sangaraju Shanmugam (Republic of Korea); Dr. Chee-SengToh, Prof. Harry Ernst Hoster and Dr. M.V. Reddy (Singapore); Prof. Lo Gorton (Sweden); Dr. Carsten Schwandt, Prof P. Vadgama and Prof. Ritu Katakya (UK). The speakers from India included Prof. Rakesh Kumar Mahajan (Amritsar); Prof. Rama Kant and Prof. Suddhasatwa Basu (Delhi); Prof. S. Balaji (Kanchipuram); Dr. R. Mukhopadhyay (Kolkata); Prof. A.Q. Contractor and Dr. S.K. Ghosh (Mumbai); Prof. R.N. Patel (Rewa); Prof. A.C. Hegde (Surathkal) and Prof. Annamalai Senthil Kumar (Vellore). The short invited lectures were delivered by Dr. Sudhanshu Sharma (Ahmedabad); Dr. Murali Rangarajan (Coimbatore); Dr. Rahul Pal (Delhi); Dr. Alka Sharma; Dr. A.K. Satpati and Mr. Saurav K. Guin (Mumbai, India).

A Panel Discussion on *“Emerging Trends in Electrochemistry”* was also conducted during the Discussion Meet. A special session viz. *“Unconference”* was organized to discuss the technical aspects, suitability of the instruments, personal working experience, discussing about companies

# INDIAN SOCIETY FOR ELECTROANALYTICAL CHEMISTRY (ISEAC)

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selling instruments etc. About 16 abstracts were shortlisted for publication in a Special Issue viz. "*Electroanalysis in India*" of *Electroanalysis* Peer-Reviewed Journal, with Dr. S.K. Aggarwal as Guest Editor. This special issue publication is in progress and will be released shortly. The importance of ISE and the benefits of the ISE membership were also addressed by Prof. Christopher Brett from Coimbra, Portugal to the Indian participants of International Discussion Meet, 11<sup>th</sup> ISEAC-DM-2014.

ISEAC, founded by myself, has now 231 members and is a Corporate Member of ISE.

One of Indian ISE members, *Mr. Saurav K. Guin (Secretary, ISEAC, BARC, Mumbai)*, attended 64<sup>th</sup> Annual Meeting of ISE held at Santiago de Querétaro, Mexico during September 8-13, 2013. He was also given the Best Poster Presentation award sponsored by ISE Division 1. He also attended the ISE sponsored meeting ECHEMS 2014: Electrochemistry in Molecular Understanding held at Wells in United Kingdom during June 17-20, 2014. He was also given the First Prize in Poster Presentation award.

### **3. Activities Planned for next year**

It is proposed to hold the next event i.e. 12<sup>th</sup> ISEAC International Conference on Electrochemistry Applications and Challenges (*12<sup>th</sup> ISEAC-2015*) during January 12-16, 2015 at Kochi, Kerala. The information about this International event, sponsored by ISE, is available on ISE website as well as on ISEAC website (www.iseac.org). It is proposed to invite internationally known experts in different areas of electrochemistry.

Three representatives **Dr. V. Ganesan** (ISE Member), **Ms. Ruma Gupta** (ISE Member) and **Dr. Subir Kumar Ghosh** from India will be attending the 65<sup>th</sup> Annual Meeting of ISE during 31 August - 5 September, 2014 at Lausanne, Switzerland.

All efforts would be made to increase the number of ISE members from India.

*S.K. Aggarwal*  
**Prof. Suresh K. Aggarwal**  
*24/7/2014*  
ISE Regional Representative of India  
President, ISEAC; President ISMAS,  
Senior Professor, HBNI  
Distinguished Scientist  
Associate Director, Radiochemistry and Isotope Group  
Bhabha Atomic Research Centre  
Trombay, Mumbai 400 085, India  
Email: skaggr2002@gmail.com

## **ISE-Regional section of I. R. IRAN Annual Report 2013/ 2014**

### **Membership**

Up to 2012, 24 Iranian scientists were active in different ISE sections. Currently, due the problem to send the membership fee to overseas, Iranian ISE active members have decreased.

### **Activities**

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

- 1- 7<sup>th</sup> National Fuel Cell conference was held by the Iranian Electrochemical Society (IECS) on Feb. 27-29, 2013 in Gheshm Island, Iran. One national electrochemistry seminar was held by the Iranian Electrochemical Society (IECS) (The 9<sup>th</sup> Annual meeting on 4-5 Nov. 2013 at Tarbiat Modares University, Tehran, Iran. In addition, one national electrochemistry seminar will be held by the Iranian Chemical Society (ICS) (The 11<sup>th</sup> Annual meeting on 7-9 Sept. 2014 at Gilan University.
- 2- One national analytical chemistry seminar (contain a separate section of electrochemistry) was held by the Iranian Chemical Society (ICS) (The 20<sup>th</sup> Annual meeting on 26-28 Feb., 2014 at Isfahan University of Technology, Isfahan, Iran; and One national chemistry congress (contain a separate section of electrochemistry) was held by the Iranian Chemical Society (ICS) on 7-9 Sept., 2013 at Yazd University, Yazd, Iran.
- 3- Just one paper present by Iranian researchers in the 64<sup>rd</sup> Annual Meeting of the International Society of Electrochemistry, 19-24 August 2012, Prague, Czech Republic. Two papers presents by Iranian researchers in 13<sup>th</sup> Topical Meeting of the International Society of Electrochemistry 7 to 10 April, 2013, Pretoria, South Africa.
- 4- **Published articles**  
Based on Sciencedirect reports in 2013, more 83 papers have been published in Electrochimica Acta and more than 6000 chemistry articles by Iranian researchers have been published in ISI indexed Journals.

Isfahan, July 11, 2014

Ali A. Ensafi

Regional Representative of I. R. IRAN





## **ISE REPORT 2014 from the Regional Representative - Ireland**

### **Members**

The number of ISE members within Ireland has increased from 21 to 23 on August 2014. Division 1&4 (12 and 13 members, respectively) and Division 7 (9 members) are the divisions with most members among those that explicitly choose a division. Surprisingly, given the significant research on amperometric sensors and biosensors in Ireland, bioelectrochemistry is not explicitly mentioned in the member's preferences. The Irish Electrochemical community is well represented across the academic institution. However, only one member is fully associated with industry. I suggest we should attempt to involve more corporate membership in the region.

### **Activities**

In the last four years, I have actively promoted bioelectrochemistry within the Society for Industrial Microbiology and Biotechnology (USA) that has strong interest in bioelectrochemistry and bio-electroreactors.

Since May 2013, I moved to Singapore on a visiting researcher position. Due to the obvious difficulty of interacting with Irish members from such a remote location, there was relatively little communication in the last year.

August 31<sup>st</sup>, 2014

Enrico Marsili  
School of Biotechnology  
Dublin City University  
Ireland

האוניברסיטה העברית בירושלים

THE HEBREW UNIVERSITY OF JERUSALEM

Prof. Daniel Mandler  
Faculty of Science  
Institute of Chemistry  
Jerusalem

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## ISE Report from the Israeli Regional Representative

August 2014

### Members

Presently there are 21 Israeli ISE members. Almost all are from the academy. The number of electrochemists in the academy including graduate students is estimated to be over 120.

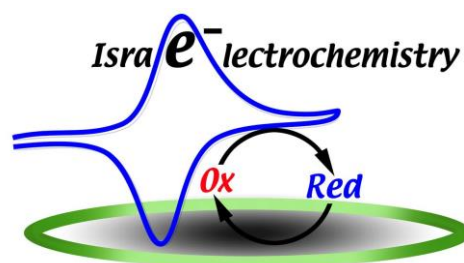
### Activities

The activity in electrochemistry in Israel keeps growing constantly and attracts the academy as well as industry. The annual meeting of electrochemistry is called Israelectrochemistry and is held every year in a different University. Last year it was organized by Professor Doron Aurbach and Dr. Gilead Shafir at the Bar Ilan University on July 10<sup>th</sup> 2013. The meeting was supported by INREP and by the Baruch Zinger Foundation. More than 120 attendees participated, where 16 lectures were given and approximately 40 posters were presented mostly by graduate students. The Baruch Zinger Foundation awarded a few prizes for the best lectures and posters.

The next meeting of Israelectrochemistry will be held on Sept. 16<sup>th</sup> 2014 at the Technion Institute of Technology and organized by Professor Yair Ein Eli.

In addition to the annual meeting there were held a few industrial oriented meetings, organized by Shmuel De-Leon Energy Ltd ([www.sdle.co.il](http://www.sdle.co.il)). For example, the 4<sup>th</sup> Israeli Power Sources Conference was held on May 29<sup>th</sup> 2014 where mostly industrial presentations were given by Israeli and foreign experts in batteries, supercapacitors and other power related technologies. Other workshops, for example focusing on supercapacitors, were also held and attracted participants from industry and academy.

During the last years a new center; Israel National Research Center for Electrochemical Propulsion (INREP) was established. The center combines forces on the development of new materials, new concepts and new analytical methodologies, as well as functioning prototypes. There is electrochemistry activity in the following Israeli Universities: Ariel University, Bar Ilan University, Ben Gurion University, Hebrew University of Jerusalem, Technion, Tel Aviv University and Weizmann Institute. The activity spans over various fields including electroanalytical chemistry, physical electrochemistry, (nano)materials and energy. There is also substantial activity in the Israeli industry and several new start-ups were established recently that deal with electrochemistry (mostly in electrical power and sensing).



*Dani Mandler*

Professor Daniel Mandler  
Jerusalem, Israel

## ISE Annual Report 2014 - Italy

**ISE membership.** Promotion of membership renewal and new recruiting led to significant increase of the members number over the last year. At the time of writing this report the membership has attained **125 active members in Italy**, the largest number over the last five years. The effort to recruit new members is mostly focused on the authors of papers published in *Electrochimica Acta*, new PhD students and young scientists.

**Participation to ISE operative bodies.** Marco Musiani (CNR – Padova), Executive Secretary; Francesco Paolucci (University of Bologna), Chair Elect of Division 6 (Molecular Electrochemistry) for the years 2013-2014.

### Sponsored Meetings.

ISE sponsorship has been granted to the following Congresses in Italy in 2014:

1. International meeting on the chemistry of graphene and nanotubes, 30 March-3 April 2014, Riva del Garda (Trentino-Alto Adige), sponsored by Division 3;
2. International workshop on electrogenerated chemiluminescence, 7-10 September 2014, Bertinoro (Emilia Romagna), sponsored by Divisions 1 and 6;
3. 10th European Symposium of Electrochemical Engineering, 28 September-2 October 2014, Cagliari (Sardegna), sponsored by Division 4.

The annual national meeting of the Electrochemistry Division will take place within the general Congress of the Italian Chemical Society, in Arcavacata di Rende (Calabria), 7-12 September 2014. In this occasion the advantages of ISE membership will be illustrated to young scientists.

**ISE Activities.** The proposal for organizing the Annual ISE Meeting 2018 in Italy has been approved by the Executive Committee.

July 10<sup>th</sup>, 2014

Sandro Cattarin  
Regional Representative of Italy  
CNR-IENI - Institute for Energetics and Interphases  
Padova, Italy

# ISE REPORT 2014 from Korea

## Meetings

November 7-9, 2013: KECS fall meeting was held at DaeJeon Convention Center, Daejeon city, Korea. Memorial symposium for the late Prof. Su-Moon Park was also held simultaneously in the same place.

April 10-12, 2014: KECS spring meeting was held at Changwon Exhibition Convention Center, Changwon, Korea. The meeting was successful with 700 participants covering all electrochemistry disciplines from fundamentals to applications.

## Members

Prof. H. Kim, chair professor in Energy Systems Engineering Faculty of DGIST, Daegu, Korea, is now serving the society as the president of ISE from 2013 for two years this year.

The Korean section of ISE decreased some but still maintained its members above 130 as almost same as previous year's members. (132 as of March 2014 from 185 in 2013)

The memorial symposium to remember the late Prof. Su-Moon Park's academic career in various fields of the electrochemistry was successfully finished. Many colleagues including invited speakers, friends, and his students had a chance to look back good old memories related with Prof. Park scientifically or personally.

No other special activities related to the society were here in Korea.

I am not able to attend the 65<sup>th</sup> ISE meeting in Lausanne, Switzerland. Some of participants are newly joined ISE. Look forward to seeing you next time.

July 14th, 2014

In-Hyeong Yeo, Regional Representative of Korea

Prof. of Chemistry, Dongguk University, Seoul 100-715, Korea.

## State research institute Center for Physical Sciences and Technology

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International Society of Chemistry

2014 07 10 Nr. *SR-2520-617*

### ISE ANNUAL REPORT 2014

New Regional Representative was elected at the end of 2013 and prof. Rimantas Ramanauskas was replaced by dr. Rasa Pauliukaitė, who started her term of 2014-2016.

#### Members

The ISE regional group is small, consisting of **18 members** at the moment, and we expect at least small increase in future.

#### Activities

Two events were organised by ISE members together with Institute of Chemistry of the Center for Physical Science and Technology and Lithuanian Academy of Science in September 2013: **International seminar "Functional Materials and extraction technologies"**, where two well known ISE members prof. Prof. Christopher M.A. Brett (Portugal) and Dr. Zenonas Jusys (Germany) have shared their professional experience. ISE regional group also took part in organizing the **National conference „Chemija 2013“**.

ISE members attended ISE Topical Meetings this year: 2 persons were in Niagara Falls (Canada). 3 members will take part in ISE annual meeting in Lausanne.

Proposal for organizing ISE Topical Meeting in 2017 has been submitted to the Scientific Meetings Committee.

#### Future perspectives

ISE Regional group plans to recruit new members, organize national and international events and attend ISE meetings.

ISE Regional Representative, Lithuania

*Rasa Pauliukaitė*  
Rasa Pauliukaitė

Director

*Gintaras Valušis*  
Gintaras Valušis

Chief researcher, dr. RASA PAULIUKAITĖ,  
Department of Nanoengineering  
Center for Physical Science and Technology



**Dr. Carlos Eduardo Frontana-Vázquez**

Centro de Investigación y Desarrollo Tecnológico en Electroquímica, S. C.  
Tel. 52-442-211-6000 Ext 7849, Fax. 52-442-211-6001  
Pedro Escobedo, Querétaro, July 8<sup>th</sup>, 2014

## **REPORT OF THE ISE REGIONAL REPRESENTATIVE – MEXICO**

As of today, July 8<sup>th</sup>, 2014, the region has 269 members, which is the highest historical number and represents a huge increase from last year 40-50 members. This number is in accordance with the organization of the 64<sup>th</sup> Annual Meeting in Queretaro, which gather a high number of attendants and allows to improve significantly the presence of the Society in Mexico. Also, four more ISE-sponsored events took place: MicroEchem 2013 “New Materials and Processes Based on Electrochemical Concepts at the Microscopic Level”, as a follow-up satellite meeting cosponsored by the American Chemical Society, the Electrochemical Society, the Mexican Electrochemical Society among other sponsors. Also, during the first week of July of 2014, we held MicroEchem 2014 – “First Summer School in Molecular Electrochemistry”. On both events, ISE Regional Student Meetings were organized, counting with an average number of 50-70 participants in each event, mainly students, which consistently ask for new and more diverse activities, besides those typically organized by the Mexican Electrochemical Society

I am finishing my last year of my first term as ISE Regional Representative and a new representative for the region will be elected. Therefore, I wish to thank all my fellow regional representatives for their help and also for being very kind and patient with me, along with the members of the Executive Committee, on which I specially mention Prof. Marco Musiani. Of course, the invaluable assistance of Thierry Lenzin and Kathleen Vionnet for all the support that they have granted in all the organized activities.

I look forward to see you in further meetings and also I hope that, as a member of the society, I can provide as much assistance as possible for its development

Sincerely,

Dr. Carlos Eduardo Frontana Vázquez  
Centro de Investigación y Desarrollo Tecnológico en Electroquímica, S. C, México

## ISE Report 2014 from the Regional Representative the Netherlands

(Prepared for the ISE Regional Representatives meeting to be held during the 65<sup>th</sup> Annual Meeting of the ISE, Aug. 31<sup>st</sup> – September 5<sup>th</sup>, 2014, Lausanne, Switzerland)

### Members

The number of members within the Netherlands is currently 27. A number of scientists based in the Netherlands have been contacted directly or following publications in *Electrochimica Acta*, as suggested. The number of members has slightly increased with respect to last year.

The interest of the Dutch ISE members in the different divisions is given here (listed from high to lower interest):

- Division 3: ELECTROCHEMICAL ENERGY CONVERSION AND STORAGE (11)
- Division 4: ELECTROCHEMICAL MATERIALS SCIENCE (10)
- Division 5: ELECTROCHEMICAL PROCESS ENGINEERING AND TECHNOLOGY (7)
- Division 1: ANALYTICAL ELECTROCHEMISTRY (7)
- Division 7: PHYSICAL ELECTROCHEMISTRY (6)
- Division 2: BIOELECTROCHEMISTRY (4)
- Division 6: MOLECULAR ELECTROCHEMISTRY (2)

Unfortunately, Dr. Kees van Velzen, a longtime member of the society passed away on April 23<sup>rd</sup> this year.

### Activities

67<sup>th</sup> annual meeting of the ISE

In 2013, preparations for the 67<sup>th</sup> Annual Meeting of the ISE in Den Haag started. Together with Marc Koper, the scope and organizing committee for the meeting was defined:

- Christian Amatore, Paris, France
- Maarten Biesheuvel, Wageningen, the Netherlands
- Bernard Dam, Delft, the Netherlands
- Justin Gooding, Sydney, Australia
- Annick Hubin, Brussels, Belgium
- Marc Koper, Leiden, the Netherlands (Co-Chair)
- Yunny Meas, Querétaro, Mexico
- Peter Notten, Eindhoven, the Netherlands
- Mark Orazem, Gainesville, USA
- Maarten Van Brussel, Utrecht, the Netherlands

Together with the ISE office, the first announcement brochure was also created.

### KNCV Symposium

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 2013, the symposium, on the theme of Electrocatalysis, was held at the University of Leiden on November 29<sup>th</sup>.

This year, the symposium will be organized in Antwerpen, Belgium and the theme will be the Electrochemistry in non-traditional media.

A presentation about the ISE and its activities will be held at this meeting.

August 12<sup>th</sup>, 2014  
Maarten Van Brussel  
Metrohm Autolab B.V.

Utrecht, the Netherlands





Programme of the Annual Symposium of the KNCV Working Group on Electrochemistry

## Electrocatalysis

Date: **Friday 29 november 2013**  
Location: **Leiden University, zaal 1 of Gorlaeus Laboratorium**  
**Einsteinweg 55, 2333 CC Leiden**

- 
- 9:30 – 10:00 **Welcome and coffee**
- 10:00 – 10:15 **Introduction by Prof. Marc Koper** (Chairman, Leiden University)
- 10:15 – 11:00 **Stability of electrocatalysts for electrochemical energy conversion**  
Dr. Karl J.J. Mayrhofer (Max-Planck-Institut, Düsseldorf)
- 11:00 – 11:30 **Electrochemical approaches to treat water and recover resources**  
Dr. Adriaan Jeremiassen (MAGNETO Special Anodes)
- 11:30 – 12:00 **Nitrogen-doped ordered mesoporous carbon as electrocatalyst for oxygen reduction to H<sub>2</sub>O<sub>2</sub>**  
Prof. Paolo Pescarmona (KU Leuven)
- 12:00 – 13:30 **Lunch**
- 13:30 – 14:00 **Structure sensitivity of making and breaking bonds at atomically well-defined electrocatalyst surfaces**  
Drs. Hongjiao Li (Leiden University)
- 14:00 – 14:30 **Heterogeneous catalysis in aqueous phase, or electrocatalysis?**  
Prof. Leon Lefferts (University of Twente)
- 14:30 – 15:00 **Coffee & Tea break**
- 15:00 – 15:30 **Surface and electrochemical characterisation of a Pt-Cu/C core-shell electrocatalyst, prepared by galvanic displacement**  
Drs. Bart Geboes (University of Antwerp, Vrije Universiteit Brussel)
- 15:30 – 16:00 **Electrocatalysis in the production of chlorine and sodium chlorate**  
Dr. Thijs De Groot (Akzo Nobel)
- 16:00 – 16:15 **Annual ISE meeting 2016 in the Netherlands**  
Dr. Maarten Van Brussel – Prof. Marc Koper
- 16:15 – 18:00 **Drinks**

*Symposium language: English*



## **Short report on Norwegian ISE activities in 2013/2014**

### **Membership**

The number of Norwegian members of the ISE steadily increased till 2009, but has in spite of some new members recruited in 2014 has reduced to 15 members in 2014. Given the importance of electrochemistry in the Norwegian industry, there should be a basis for a larger number of members. However, most of the current members are affiliated with the Norwegian University of Science and Technology (NTNU). Renewed attempts of increasing the member base will be made in the forthcoming period.

### **Participation in ISE sponsored meetings**

ISE member from the Norwegian University of Science and Technology (NTNU) and the Norwegian industry participated in the ISE annual meeting in Santiago de Querétaro, Mexico in 2013 and at 6th Kurt Schwabe Symposium in Krakow September 2013.

### **Other**

Beyond approaching prospective members to the ISE directly no other activities specific to the organization were organised in 2013/14.

August 20, 2014

Regional representative Norway  
Svein Sunde  
Department of Materials Science and Engineering  
Norwegian University of Science and Technology  
Trondheim, Norway  
Svein.Sunde@material.ntnu.no



Prof. Magdalena Skompska  
University of Warsaw  
Faculty of Chemistry  
ul. Pasteura 1, 02-093 Warsaw, Poland  
fax (+48 22) 822 59 96



29 July 2014

## Report on ISE activities in 2013/2014 – Poland

### **ISE Membership:**

In Poland we have now **104** ISE members

### **ISE Sponsored meetings organized in Poland**

#### ***- 6th Kurt Schwabe Symposium***

Date: 16-19 September 2013  
Location: Krakow, Poland  
Sponsored by: Division 3

#### ***- Surface Modification for Chemical and Biochemical Sensing,***

Date: 8-12 November 2013,  
Location: Lochow, Poland.  
Sponsored by Division 1

#### ***- International Symposium on Clean Energy from Ethanol***

Date: 28-31 July, 2014  
Location: Rzeszow, Poland  
Sponsored by Executive Committee

### **Future Meetings:**

#### ***- International Scientific Conference Corrosion 2014***

Date: 18-21 November 2014  
Location: Gliwice, Poland  
Sponsored by: Division 4

### **Co-organization of Symposia during Topical and Annual ISE Meetings:**

- Prof R. Bilewicz and Prof. P. Krysinski (University of Warsaw) organized Symposium 8 "Electrochemistry at cells and tissues" during Topical Meeting "Bioelectrochemistry 2013" in Bochum - March 2013
- Prof. E. Frackowiak (Poznan University of Technology) was co-organizer of Symposium 4a - "Novel Materials and Devices for Energy Storage and Conversion: Capacitors" during 64th ISE Meeting, 8-13 September, 2013, Querétaro, Mexico
- Prof. P. Kulesza (University of Warsaw) was co-organizer of Symposium 6 during 64th ISE Meeting, 8-13 September, 2013, Querétaro, Mexico ,

Other activities:

Prof. R. Bilewicz (University of Warsaw) is a Chair Elect of Division 2

Prof. Renata Bilewicz was appointed as member of Publication Committee of ISE for the period 2014-2016

Many electrochemists from Poland will attend **65<sup>th</sup> Annual ISE Meeting in Lausanne**. The participation fee for 11 young scientists (PhD students) will be covered by the funds available from the profits of the 7<sup>th</sup> Spring Meeting in Poland (Szczyrk) .

Magdalena Skompska

Polish ISE Regional Representative for the term 2013-2015



## **International Society of Electrochemistry Annual ISE report of Portugal – 2013/2014**

### **Membership**

The number of ISE members increased 12% from last year, passing from 34 to 38. Besides the direct contact with authors in *Electrochimica Acta* using the very helpful lists provided by the Executive Secretary, other approach to get new members is the advising of the participants on the courses and workshops of electrochemistry in Portugal.

The interest of the Portuguese members in terms of ISE divisions is as follows:

Division 1. Analytic electrochemistry (17 members)

Division 4. Electrochemical Materials science (15 members)

Division 6. Molecular Electrochemistry (13 members)

Division 2. Bioelectrochemistry (12 members)

Division 3. Electrochemical Energy Conversion (7 members)

Division 5. Electrochemical process Engineering and technology (6 members)

Division 7. Physical Electrochemistry (5 members)

### **Activities**

During this period Portuguese ISE members have been involved in the organization and have participated in several ISE sponsored meetings in Europe.

Other domestic organizations sponsored by ISE were the E-Inov Forum 2013 - III Forum on Electrochemistry and Innovation (Vila-Real (PT), Sept 2013) and the XIX Meeting of the Portuguese Electrochemical Society and XVI Iberic Meeting of Electrochemistry (Aveiro, Jun/Apr 2014), both organized by portuguese ISE members.

Jorge Correia  
Regional representative  
Portugal  
August 2014



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## Report of the Romanian Regional Representative

**Prof. Dr. Liana Maria MURESAN**

“Babes-Bolyai” University

Dept. of Chemical Engineering

Phone: + 40 264 595872

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E-mail: [limur@chem.ubbcluj.ro](mailto:limur@chem.ubbcluj.ro)

- **Membership**

At the moment, there are 39 active members in the Romanian section. To recruit new members, e-mails have been sent to the authors of papers published in *Electrochimica Acta*. Efforts to recruit new members continue, especially targeting young scientists.

- **Contacts with other scientific societies from Romania**

Electrochemical Society of Romania (**SER**)

Romanian Chemical Society (**SCR**)

Romanian Analytical Chemistry Society (**RACS**)

Romanian ISE members have taken part in a number of national and international conferences on electrochemical topics. As concerning the ISE Annual Meeting in Lausanne, the expected number of participants from Romania is, unfortunately, relatively small, most probably due to economic reasons.

Cluj-Napoca, 9<sup>th</sup> July 2014

Prof. Liana Maria MURESAN

A handwritten signature in blue ink, appearing to be 'L. Muresan', is written below the printed name.

## **REPORT 2013-2014 of the ISE section in Russia**

### **Membership and global situation**

Within the period of 2011-2013 the Russian section of ISE consisted of 50 to 56 members. The actual number is 60. It seems that this increase is related mostly to a greater activity of young researchers, in particular in view of the active participation of the Russian section in the Annual ISE Meeting-2014 in Lausanne.

The global situation with research in Russia is still difficult to evaluate and its prospects are not clear. The law accepted by the Russian parliament at the end of 2013 changed essentially the status of the Russian Academy of Sciences (**RAS**) merged with two other Russian academies. Namely, RAS has lost its functions of the direct management of its former research institutes and of the corresponding money fluxes from the state budget allocated for the fundamental research. On the other hand, its members continue playing a crucial role in various fund-distributing bodies, in particular the Russian Foundation of Basic Research (RFBR) and the newly created (end of 2013) the Russian Science Foundation (RSF). During the first half of 2014 RSF issued several announcements of various research grants (for small research teams, for support of existing laboratories, for creation of new laboratories, for international collaboration as well as for support of research institutes), the results being now available only for the first two of these competitions.

### **Activities**

Main activities of the section in the period from August 2013 till August 2014 were in the area of pure and applied electrochemistry.

In view of a weak publication activity of Russian electrochemists in international journals special efforts have been made in this direction, in particular, owing to the thematic issue of *Electrochimica Acta* "Electrochemistry of Electroactive Materials" (EEM-2013, vol. 122, issued in March 2014, M. A. Vorotyntsev being its organizer and a Guest Editor) where 9 contributions of research teams from Russia have been published as well as to the Memorial issue in *J. Solid State Electrochemistry* dedicated to Prof. V. S. Bagotsky (vol. 18, issue 5, May 2014, A. M. Skundin and G. A. Tsirlina being its Guest Editors).

M. A. Vorotyntsev is actually one of the Guest Editors of the special issue of *Electrochimica Acta* "ISE-2014" to be published in 2015.

Members of the section took part in the 64th Annual ISE Meeting-2013 in Santiago de Queretaro, Mexico with oral and poster presentations. A. A. Karyakin delivered "Bioelectrochemistry Prize Lecture", R. R. Nazmutdinov was among Invited Lecturers.

A great number of participants from the Russian section is expected in the 65th ISE Meeting in Lausanne where they will make both oral and poster presentations. M. A. Vorotyntsev is the Coordinator of Symposium 8 "Modern Electroactive Polymeric, Organic, Inorganic and Nanocomposite Materials" in the course of this meeting.

A. A. Karyakin delivered two invited lectures at international conferences in Sweden: *Analysdagarna-2014* in Stockholm and *ESEAC-2014* in Malmö, both in June 2014.

ISE members of the Institute for Problems of Chemical Physics RAS (IPCP RAS, Chernogolovka, Moscow region), of the electrochemistry chair 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 Saint-Petersburg State University have

been participating actively in preparation and realization of several national and international conferences:

1. 9th National Conference "Physicochemical Problems of Renewable Energy Sources", Saint-Petersburg, Russia, November 2013.
2. 2nd Russian Congress on Analytical Chemistry, Moscow, Russia, 2013;
3. International Conference "Ion Transport in Organic and Inorganic Membranes", Tuapse region, Russia, June 2014.
4. 18th International Symposium on Reactivity of Solids (ISRS-18), Saint-Petersburg, Russia, June 2014.
5. 19th National Conference "Physicochemical Problems of Renewable Energy Sources", Chernogolovka, Moscow region, Russia, June-July 2014.
6. 12th Symposium "Fundamental Problems of Solid-State Ionics", Chernogolovka, Moscow region, July 2014.
7. 18th National Meeting "Electrochemistry of Organic Compounds", Tambov, September 2014 (under preparation);
8. National Conference "Chemistry of Organoelemental Compounds and Polymers 2014", Moscow, September 2014 (under preparation);
9. 13th International Conference "Fundamental Problems of Energy Conversion in Lithium-Based Electrochemical Systems", Almaty, Kazakhstan, September 2014 (under preparation);
10. "International Workshop on Electrochemistry of Electroactive Materials" (WEEM-2015), Bad Herrenalb, Germany, May-June 2015 (under preparation).

Members of the section also participated in other international electrochemical conferences, in particular

- "International Symposium on Metal Complexes" (ISMEC 2013), Burgos, Spain, June 2013;
- 14th International Conference "Advanced Batteries, Accumulators and Fuel Cells" (ABAF 14th), Brno, Czech Republic, September 2013;
- 3rd International Conference "Nanomaterials: Application and Properties 2013" (NAP' 2013), Alushta, Ukraine, September 2013;
- Joint International Conference (5th Conference "Modern Methods of Theoretical and Experimental Electrochemistry" and 4th Conference "Electrochemical and Electrolyte-Plasma Methods of Metal Surface Modification"), Ples, Russia, September 2013;
- "Heterogeneous catalysis: recent advances in preparation and characterization", Orleans, France, March-April 2014, where I. Brink, Yu. Dobrovolsky, N. Kononenko, N. Smirnova and B. Tarasov were among invited lecturers;
- International Conference "ELEC NANO6" (ISE-sponsored meeting), Paris, France, May 2014;
- 10th ECHEMS Meeting "Electrochemistry in Molecular Understanding" (ISE-sponsored meeting), Wells, Somerset, UK, June 2014.

Young electrochemists took active part in the 2nd National Youth Conference "Advances in Chemical Physics", Chernogolovka, Moscow region, Russia, June 2014 as well as in the specialized Youth Forum "Lomonosov-2014" (only for university and PhD students), which took place in Moscow, April 2014, where some of them were awarded by the organizers.

Special lecture course on the theory and practice of electrochemical impedance (organized by electrochemists of IPCP RAS) was delivered for young participants of the 12th Symposium "Fundamental Problems of Solid-State Ionics", Chernogolovka, Moscow region, July 2014.

Young Russian electrochemists passed short-term research stages: A. V. Yudina at the University of Stony Brook, USA, topic: "Supercapacitors", May 2014 and D. V. Konev at the University of Warsaw, Poland, topic: "Electroactive polymers", April 2014.



Each year the electrochemistry chair of the Moscow State University organizes in October the A. N. Frumkin Hearings (chaired by B. B. Damaskin) with several invited lectures devoted to various areas of electrochemistry and related disciplines, including invitations of top Russian and foreign electrochemists. Besides, a winner of the annual competition for the A. N. Frumkin prize among young researchers delivers a presentation. In 2013 such a lecture on electrochemical transformations of  $\text{NO}_3^-$  and NO on Pt single-crystal faces was delivered by I. G. Botryakova (IPCE RAS, Moscow).

The Russian section of ISE also participated actively in the "Young researcher competition" at IPCP PAS, Chernogolovka.

Early in 2013 a new forum for discussions of modern trends and problems in electrochemistry has been created: "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. 13 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.

Two members of the section are Associate Editors of international journals: A. A. Karyakin (Electroanalysis) and G. A. Tsirlina (J. Electroanal. Chem.).

M. A. Vorotyntsev is actually a vice-chair of Division 4 of ISE.

A number of Russian ISE members serve as reviewers for *Electrochimica Acta* and other international electrochemical journals.

Mikhail A. Vorotyntsev

ISE Regional Representative - Russia



## 2013/2014 Report of ISE Regional Representative of Serbia

Currently there are 45 ISE members from Serbia, 6 more than a year ago. After several years of stagnation, the number of members has increased due to the increased interest of young people in electrochemistry, which is reflected in the increasing number of young people involved in research

During the fall of 2012 and spring of 2013, Electrochemical Division of the Serbian Chemical Society was preparing the Application for the organization of the 70<sup>th</sup> ISE Annual Meeting in 2020, with main theme "Electrochemistry towards Excellence". Letter of Intent (including Signed Rules for ISE Annual Meetings, Bid Book, supports from electrochemists in the region, Information about the Serbian Chemical Society and Information about Belgrade) was sent to the **Executive Committee of the International Society of Electrochemistry** in early May of 2013. Unfortunately, until now we have not received any feedback, except that the application is registered

Until the meeting in Lausanne, we will provide additional material, rough description of the costs of the potential conference venue, and local organizations costs, including the approximate cost of accommodation at the moment.

### ACTIVITIES

1. In November of 2013 I organized elections for ISE regional representatives of Serbia. Elections were held by electronic voting, and I was elected as regional representatives for the following 3 years, in the second term.
2. Activities on the organization of **5<sup>th</sup> Regional Symposium on Electrochemistry: South-East Europe (RSE-SEE 5)** to be held in Bulgaria in 2015, began this spring. At the last meeting of the Electrochemical Division of the Serbian Chemical Society board members from Serbia were chosen: Vesna Mišković Stanković as a member of the Scientific Committee and Aleksandar Dekanski as a member of the Organizing Committee. The first joint meeting of both committees is scheduled for autumn this year. The plan also envisages organization of the **Satellite Student Regional Symposium on Electrochemistry – SSRSE**. We expect that the International Society of Electrochemistry (ISE) will support both of these scientific meetings, as well as all those that have been held.
3. As a regional representative I addressed the participants of the international conference **XV·YuCorr - Science and Practice in the Fields of Corrosion, Materials and Environmental Protection**, held on September 17–20, 2013, on Tara Mountain, Serbia. Conference was organized by the Serbian Society of Corrosion and Materials Protection – UISKoZaM, sponsored by the International Society of Electrochemistry (ISE).

On this occasion, I gave a short presentation about the organization and activities of the ISE and urged attendees to become members of the International Society of Electrochemistry. I believe it contributes to increasing the number of ISE members from Serbia

More than 70 contributions were presented, by the author from more than 10 countries, mostly from the region. <http://www.sitzam.org.rs/15YUCORR/>

4. Activities within the Electrochemical Division of the Serbian Chemical Society includes the organization and participation on the **51<sup>st</sup> Meeting of the Serbian Chemical Society**, held in Niš, June 5-7, 2014, particularly Electrochemical Section of the Meeting (1 oral and 4 poster presentations).
5. Few members of the ISE from region was involved in the organization of **XVI·YuCorr - Meeting Point of the Science and Practice in the Fields of Corrosion, Materials and Environmental Protection**, held on 23-26 June 2014 on Tara Mountain, Serbia, and more than 20 participate this regional conference (<http://www.sitzam.org.rs/16YUCORR/>). Conference was organized on the occasion of 60<sup>th</sup> Anniversary of UISKoZaM - Serbian Society of Corrosion and Materials Protection.
6. During the past year the following lectures were organized by the Division:
  - a. Dr Aleksandar R. Žerađanin, Max-Planck-Institut für Eisenforschung GmbH, Dusseldorf, Germany: „The effect of electrode morphology on the efficiency of electric catalytic reaction with gas evolution“
  - b. Dr Vladimir Jović, Institute of Multidisciplinary Research, Kneza Višeslava 1, Beograd, Srbija: „Electrochemically deposited coatings based on Ni and base metals as cathodes for hydrogen evolution in chlor-alkali electrolysis“.
7. Improving cooperation with the electrochemists from the region, primarily from Croatia. As a result of this cooperation four issues (Vol 3 and 4) of the Open Access Journal of Electrochemical Science and Engineering – jESE (which is published as a result of this cooperation) were published: (<http://www.jese-online.org>). Special Issue of the Journal (Vol. 3, No 3) was dedicated to the **6<sup>th</sup> European Summer School on Electrochemical Engineering (ESSEE6)**, held in Zadar, Croatia in September 2012.

Sincerely,



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

## **Report 2014 of the ISE Regional Representative, South Africa**

*Prepared for the ISE Regional Representatives meeting to be held during the 65<sup>th</sup> Annual Meeting of the ISE, Aug 31 – Sept 5, 2014, Lausanne, Switzerland*

### **Membership**

- 1) Our membership has grown to 109 members in 2014.
- 2) Efforts to recruit new members are a continuous process, targeting young electrochemists and postgraduate students.
- 3) Some of our members hold important positions in the Universities and Science Councils.

### **Activity**

There are some electrochemistry-related meetings in South Africa:

1. CARISMA, Cape Town, Monday 1 – Wednesday 3 December 2014 (ISE-sponsored)
2. CATSA, Johannesburg, 9 - 12 November 2014 (ISE-sponsored)
3. MAM-2014: 23 - 27 November 2014 (ISE-sponsored)
4. SA-Korea meeting: Pretoria, 4 – 6 August 2014



## Members

According to the Member Directory of ISE, the number of members within Spain is currently 114 (109 in 2013, 107 in 2012), coming from Universities, Research Institutes of CSIC, Technological centers and Spin-off. All the Spanish co-authors of papers published in *Electrochimica Acta* during 2014 which are not members of the society have been contacted publicizing the benefits of the ISE (using the information provided by the Executive Secretary of the ISE, Prof. Marco Musiani).

## Activities

-The ISE-sponsored *XXXV Annual Meeting of the Electrochemistry Group of the Spanish Royal Society of Chemistry (RSEQ) and 1<sup>st</sup> symposium of Electrochemistry for the Environment of the Mediterranean* attended by more than 200 people, was held in Burgos between July 14<sup>th</sup> and 16<sup>th</sup> 2013. It was organized by Prof. M. Julia Arcos Martínez (chair), Prof. Aránzazu Heras Vidaurre (Vice-Chair) and Prof. Álvaro Colina Santamaría (Secretary), all of them from the University of Burgos. Plenary lectures were given by Prof. Juan M. Feliu (Spain), Prof. Patrick R. Unwin (UK) and Prof. Jean-Michael Kauffmann (Belgium). It should be highlighted that 1<sup>st</sup> symposium of Electrochemistry for the Environment of the Mediterranean was organized in collaboration with the Electrochemistry division of the Italian Chemical Society.

-During the Meeting, 9 PhD students defended their Thesis Plan and 25 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*" was taught for the second time. 26 students register for this edition of the master degree. The compulsory part of the degree took place in Alicante during January and February 2014. It is coordinated by Prof. Vicente Montiel (University of Alicante) and it is offered in 9 different Spanish universities

-The interuniversity PhD program on electrochemistry - "*Electrochemistry: Science and Technology*" adapted its structure to the new Spanish regulation. It was definitively approved on September 2013, and in the 2013/14 academic year 9 new PhD students enter the program. The program is offered in 11 Spanish Universities and has the certification of excellence from the Spanish Ministry of Education.

July 21, 2014

Enrique Herrero

Spain ISE Regional Representative

Universidad de Alicante.

**Report for the RR meeting in Lausanne 2014, Sweden**

**Members:**

The number of members has dropped slightly since last year, and is presently 41 (43 in 2013).

**Conferences:**

ESEAC 2014 (European Society for ElectroAnalytical Chemistry) was held in Malmö, June 11-15. Prior to that meeting, an electrochemistry session was also organized at the National conference in Analytical Chemistry (Stockholm), where A. J. Bard and A. Heller were awarded the Torben Bergman-medal.

The same team will also plan and host the Bioelectrochemical Society's annual conference (BES 2015) in the Öresund region 2015.

The first Nordic battery conference took place at the Ångström Laboratory at Uppsala University in early December, 2013. Four internationally recognized battery scientists were invited, and several topics related to lithium ion batteries were discussed during the meeting.

Best Regards,

Dr. Fredrik Björefors, RR Sweden, Aug 04, 2014  
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ISE Regional Representatives

Geneva, 4 August 2014

2014 Report of the ISE Regional Representative for Switzerland

Prepared for the ISE Regional Representatives meeting at the 65th Annual Meeting of the ISE, 31 August to 5 September, 2014, Lausanne, Switzerland.

Membership:

The ISE membership stands at 66 members in 2014.

New members are being solicited on an ongoing basis by directly contacting authors who publish in *Electrochimica Acta* and who have an address in Switzerland.

Activity:

Our main activity in 2014 is the organization of the 65th Annual Meeting of the ISE in Lausanne, with a number of Swiss-based ISE members as the conference Chair (Hubert Girault) and in the Organizing and Local Organizing Committees. Swiss-based ISE members form also part of the Symposium Organizers for 9 out of the 15 symposia during the conference.

Sincerely,

Dr. Eric Bakker



September 15, 2014

## 2014 ISE Report for Turkey

Regional Representation of Turkey has been established in the beginning of 2014. As of July 8th, 2014, the numbers of members from Turkey are 25 with representation in all divisions.

Now, an e-mail list has been formed to communicate with ISE members and non-members interested in electrochemistry research. Through this channel of communication, number of ISE members is expected to increase along the way.

In the first half of 2014, Electrochemistry community in Turkey organized 3<sup>rd</sup> Electrochemistry Summer School (3-7 June 2014) and 3<sup>rd</sup> Physical Chemistry Days (5-8 June 2014). 13th. International Corrosion Symposium is scheduled to take place between 15-17 October 2014.

More than 10 electrochemists are expected to participate at the Annual Meeting to make presentations on their research area.

Sincerely,

Suha Yazıcı

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**ISE Annual Meeting 2014, Lausanne - Regional Representatives Meeting**

United Kingdom (Regional Representative: Dr Tim Albrecht, since 2011 (re-elected 2013))

Annual report, ISE UK Regional Section (2013-2014)

Over the last year, the ISE has continued to be involved in a range of annual, local student meetings in an effort to publicize the Society and its activities. This included four regional meetings (three of which student-run), namely, the "Electrochemistry Northwest" Meeting (Dr Laurence Hardwick, Liverpool), the "Great Western" Electrochemistry Meeting (Prof. Frank Marken, Bath), the ECHEMS meeting in Wells and the Midlands Electrochemistry Meeting (Dr Roger Mortimer/Dr Upul Wijayantha-Kahagala-Gamage, Loughborough). All these meetings were well-attended - they have typically about 40-50 student participants and a poster session, as well as a small number of plenary talks from established academics. The UK national electrochemistry meeting in Loughborough is supported by the ISE as well, and formally a satellite meeting to the ISE annual meeting in Lausanne.

At the time of writing this report, the membership has increased to 188 (active) members (up from 172 in the previous year).

Finally, as of today, the UK Regional Group is also heavily involved in other activities of the Society with Dr Mary Ryan (Imperial) as the Chair of Division 4, Dr Jay Wadhawan (Hull) as (joint) Vice-Chair of Division 6, Prof. Andrea Russell (Southampton) as Chair Elect of Division 7 and Prof. Patrick Unwin (Warwick) as Chair Elect of the New Topics Committee. Prof. Phil Bartlett (Southampton) has just been elected as "President Elect" of the Society, starting from next year.

Yours sincerely,

*Tim Albrecht*

08th July 2014



Regional Representative (USA) Vadim F Lvovich  
Summary of activities  
9 July 2014

#### Membership

Currently there are 217 (215 in 2013, 165 in 2012) active paying members in the USA section of ISE. The Section has achieved ~32% growth for active members since 2012.

#### Activities

1. With input from the ISE members, organizational structure is being put in place and location of the meeting has being decided (Providence, RI, USA) for the 2017 68<sup>th</sup> ISE annual meeting.
2. Oncoming major conferences: 10th Annual Lithium Battery Power Conference, 11-12 November 2014, Washington, DC, USA; 227th Meeting of The Electrochemical Society (ECS), 24-28 May 2015, Chicago, IL, USA.

My activities as the Regional Representative, accomplished since February 2012, can be summarized in the following items:

#### Membership recruitment

This activity seemed to be netting directly a large influx of new active paying members (in 2014-2012 we gained 52 new active members). However, the efforts are not excessive and its continuation is definitely a good idea. As in the previous years, this task was accomplished with significant input from Dr. Marco Musiani. The editorial board of the *Electrochimica Acta* provides regularly a handy spreadsheet that lists the names, country of residence and e-mails of all authors, who are presently not members of ISE. From this list I select the authors listed as residing in the United States and I mail them correspondence inviting them to join ISE. With the official letter from the ISE president I also include my own personal letter as well.

This significant membership gain achieved in the last 2 years came as a result of both determined effort from the USA Regional Leadership, and the Spring 2012 topical meeting in Washington. It is worth mentioning that recruitment gains achieved in 2012/2013 became sustainable as indicated by the 2014 membership numbers. We are certainly looking forward to continuing current vigorous recruiting effort – with emphasis on personal recruitment, as well as the USA membership gains that may result from 2017 ISE Annual Meeting in Providence, RI.

#### Contact with members, helping to resolve some issues.

The ISE members in the USA are well aware that I am their representative, and they contact me on occasion with some ISE they cannot resolve, or with an issue that allows me to bring them in contact with other members of ISE in the country. I am also routinely asked to act as a co-signer for a new applicant, very likely in response to the invitation letters that I am mailing out.

Sincerely,  
Vadim F Lvovich