



Reports of the ISE Regional Representatives

(September 2011 – August 2012)

The reports in the following pages were submitted to the ISE Executive Committee on August 2011, on the occasion of the Regional Representatives meeting held in Prague, Czech Republic. The individual reports are preceded by a summary prepared by the ISE Vice-President responsible for Regional Sections, Hiroshi Nishihara.

August 16, 2012
Hiroshi Nishihara

Summary of the RR reports (2011-2012)

I have delivered the collection of all reports I had received two days ago just before leaving Japan which contains reports from 30 regions. After then, we received three reports from Scandinavian regions, Sweden, Norway, and Finland. And now the total number is 33 and waiting reports from 8 regions.

This time, most of the reports are just usual indicating the number of the members with their efforts to increasing the number and the activities concerned with ISE and those not directed to ISE but relating electrochemistry. Some reports are interesting, for example, Justin Gooding send a report showing how excellent was the Topical meeting in Perth.

I just summarize the Change in the number of ISE members, Announcement of Future meetings, and Problems to discuss

Increase: Australia, Belgium, Brazil, Canada, Chile, Croatia, Czech Republic, Denmark, Germany, Japan, Serbia, South Africa, Sweden

Decrease: Iran, Norway, Venezuela

Constant: Estonia, France, Greece, Hungary, Israel, Korea, Lithuania, Russia, Spain, UK, Netherlands,

Not mentioned: China, Poland, Romania, Switzerland

Plan to increase: Argentina

II.

Belgium: In 2012, The KNCV symposium will be held at the TU Delft on November 9th. The symposium, will be focused on the Electrochemistry of (photon) conversion processes. A presentation about the activities of the ISE will be held at this meeting.

Canada: Our proposal to organize one of the ISE 2014 Spring/Topical Meetings in Niagara Falls, Ontario, Canada, has been approved. Preparation for the meeting is under way. Some highlights will be presented at the 2012 ISE General Assembly.

Chile: Now, we are also preparing the SIBAE-2014 (Sociedad Iberoamericana de Electroquímica) Symposia, to be held probably in March 2014. You will send the information to participate in defining the date, place and theme of the meeting.

Croatia: Zoran Mandić, ISE member, (University of Zagreb) will organize The 6th European Summer School of Electrochemistry Engineering from 16. till 21. September 2012 in Zadar. The school will be sponsored by ISE. Irena Ciglencčki (ISE member) is organizing workshop named "Voltammetry and Geotraces" ESF COST 801 Meeting in Šibenik, Croatia/Hrvatska, at the Ruđer Bošković Institute marine station Martinska, from October 6th to October 9th 2012

Denmark: The Danish ISE members have actively involved in organizing the ISE sponsored Carisma 2012 – the 3rd Carisma International Conference on Medium and High Temperature Proton Exchange Membrane Fuel Cells, to be held on 3 - 5 September 2012, Copenhagen. About 120 abstracts have been received.

Another event, also jointly organized with the Danish ISE members, is a local workshop on materials and technologies for intermediate temperature fuel cells and water electrolyzers, to be held on 6th September 2012, at Technical University of Denmark, Lyngby, Denmark. 6 invited speakers and 8 ph.d. students, of whom are 3 ISE members, will give oral presentations.

France: 8th Sino-French Workshop on “Surface Electrochemistry of Molecules of Biological Interest & Biosensor Applications” *and the* 13th Workshop of the French Group of Bioelectrochemistry (Dates: 24-28 September, 2012; Location: Lacanau-Ocean; Sponsored by: Division 2). The expenses of Jean-Michel Kaufmann (invited speaker), Professor at the University “Libre de Bruxelles” will be paid thanks to ISE France support.

We are pleased to announce that the 16th ISE Topical Meeting will be held in Saint-Malo (France) from 31 May – 3 June 2015. The theme is: “Multi-scaled analysis of electrochemical systems”. The Meeting will be held in the “Palais du Grand Large” in the heart of the city of Saint-Malo.

Germany: ISE Sponsored meetings: Spectroelectrochemistry, Dresden 26-29 August, 2012

to come in 2013: 8th Deutsches BioSensor Symposium, Wildau, 10-13 March, 2013

Meetings to come: Electrochemistry 2012, 'Fundamental and Engineering Needs for Sustainable Development', TU München, 17th – 19th September, 2012 (organized by GdCh, DBG, Dechema)

12th ISE Topical Meeting: Bioelectrochemistry 2013, Bochum 17-21 March, 2013

Lithuania: We have resubmitted proposal to organize ISE Spring meeting in Lithuania in 2015 or later.

Netherlands: This year, the Koninklijke Nederlandse Chemische Vereniging (KNCV) symposium will be held at the TU Delft on November 9th, 2012. The symposium, focused on the Electrochemistry of (photon)conversion processes, is a common meeting ground for fundamental and applied electrochemistry experts from the Netherlands and Belgium. A presentation about the activities of the ISE will be held at this meeting.

Poland: In September 2012, Polish electrochemical community is organizing a 3-day symposium on modern electrochemistry and electroanalytical methods within the Annual Meeting of Polish Chemical Society in Bialystok (prof. T. Krogulec from Bialystok University is a main organizer). The symposium will provide an opportunity for Polish and foreign electrochemists to exchange ideas on future development of the area.

We are also getting prepared for the international Kurt Schwabe conference that will be held in September 2013 in Krakow, Poland (main organizers: prof. J. Banas from AGH University, prof. P. J. Kulesza from University of Warsaw, and Dr. L. Adamczyk from Czestochowa University of Technology). Traditionally, the meeting concentrated on various aspects of materials electrochemistry but, this time, the scope of conference will be expanded to electrochemical

energy technologies.

South Africa: The 13th Topical Meeting of the ISE (proposed topic: 'Advances in Nanoscale Electrochemical Materials Science and Manufacturing') will now be held in Pretoria, South Africa, April 07 – 11, 2013. PLEASE diarise the date and tell everyone, we look forward to welcoming you to the motherland, Africa!

Sweden: Planning has started to organize the first Nordic battery conference (preliminary in end of May 2013).

ESEAC 2014 (European society for electroanalytical chemistry) will be held in Sweden 2014. The planning for that conference is in progress.

Switzerland: The organization of the 65th annual ISE meeting 31 August-5 September 2014 in Lausanne SWITZERLAND has been started (Chairman: Prof. Hubert Girault)

UK: The ISE has agreed to co-sponsor the UK Electrochem Meeting in Dublin from 02-04 September 2012, organized by Mike Lyons.

III. Problems to discuss

Iran: At last but not least, I hereby acknowledge the effort of ISE Conference Organization for facilitating the visa issuance of Iranian attendants, even though; unfortunately some of the participants did not receive Visa. I hope that in the 3rd millennium, scientific cooperation stands above all other issues.

UK: Tim Albrecht As discussed at the previous Regional Representatives Meeting in Niigata, we also explored in how far the Society might enhance its visibility in Social Media, such as Facebook. A survey amongst the UK members revealed a mixed response and in some way a generation gap. Young researchers tended to be more supportive than more senior colleagues, but in total only ~7-8 (out of ~170) responded to my request. I therefore decided not to pursue this any further and wait for responses from other Regional Groups who intended to trial.

Venezuela: All commentaries from the former reports remain valid nowadays. Is not easy to understand how an oil producing country enjoying a decade of high oil prices reports such meager indicators for science related support and throughput. Some clues could be found on the "declaration of intentions" stated on the web page of the governmental office responsible of science affairs 2: "The Ministry of Popular Power for Science, Technology and Intermediate Industries, is looking to build a new paradigm in science and industry that meets the requirements of the new socialist homeland model, which goes beyond a system of traditional knowledge generation to one in which converge the beliefs and knowledge of the people". For those committed to formal science, without political adjectives and sound folklorisms, it's difficult to find support from official sources, actually more focused on their own dogmatic agenda. We would like to acknowledge the support received from the ISE directive board to overcome these difficulties and hope that in a not so distant future we should be able to resume our participation on the international electrochemistry community.

Report of activities: Argentine section of ISE

Prepared for the Meeting of Regional Representatives of ISE,
63rd Annual Meeting, Prague, Czech Republic, August 2012

Membership

I received the national secretary with a membership from Argentina of 32 members. As a past national secretary of the Iberoamerican Society of Electrochemistry (SIBAE) I know that SIBAE has 93 members in Argentina. I am contacting those who are not ISE members in order to invite them to join our society. I expect some increase in the number during the next months, although the current economical situation in Argentina is not the best one.

Activities

During last decade, the participation of the electrochemical community in Argentina has mainly be circumscribed to the meeting of the Argentine Physicochemical Society, the biannual meetings of SIBAE and to less extent to the annual ISE meetings. During this year, local ISE members are participating in the organisation of an International Symposium in Buenos Aires on "Challenges on Lithium Oxygen Rechargeable Batteries" and have participated in the scientific committee of the recent XX Congress of SIBAE in Fortaleza, Brasil.

Report 2012 of the ISE Regional Representative for Australia

Prof Justin Gooding

Membership

There has been a dramatic increase in the number of Australian ISE members in the last year from 33 to around 100. Part of this increase in membership is due to the 10th ISE Spring meeting being held in Perth Australia on April 15th to 18th 2012.

However, as this is only the second year that Australia has had representation we believe the large increase in membership is also due to the greater awareness of the society via all electrochemists in Australia being made aware of our representation.

Activities

The main activity of the last year was the 10th ISE Spring meeting in Perth. The theme of the meeting was “New approaches to nanostructuring electrodes for electroanalysis and energy storage” which involved ISE Division 1 (Analytical Electrochemistry) and ISE Division 3 (Electrochemical Energy Conversion and Storage). The meeting was chaired by Dr. Manickam Minakshi of Murdoch University. The meeting was an outstanding success, attracting 285 participants from 31 countries. Number of participants in the 10th ISE Spring Meeting per country: Australia-98, Korea-44, China-21, Taiwan-16, Japan-14, France-12, United Kingdom-10, Poland-9, Germany-9, Singapore-7, South Africa-5, Czech Republic-4, Canada-4, USA-4, Estonia-3, New Zealand-3, Brazil-3, Switzerland-2, Denmark-2, Sweden-2, Latvia-2, Italy-2, Russia-1, Finland-1, Ireland-1, Portugal-1, Indonesia-1, Slovenia-1, India-1, Belgium-1, Greece-1.

This was the first time an ISE meeting was held in Australia. We were fortunate that Perth put on her best autumn weather to greet all our overseas and interstate visitors during the whole conference. During the conference dinner, held on the Tuesday evening in the University of Western Australia staff club, a beautiful warm evening saw delegates stand on the balcony overlooking the Swan river with the night lights of central Perth reflecting off the water. Some wine was consumed.

We would like to thank all participants for your excellent scientific contributions! We were unsure how many people would make the long journey to Australia and so we thank you for coming in such large numbers and making the week such a success. We would also like to thank the Organizing Committee, Local Organizers, Student helpers and especially the ISE Office for your precious help in organizing the meeting. Financial support from sponsors the Australian Institute of Nuclear Science and Engineering (AINSE), The Royal Australian Chemical Institute (RACI), Government of Western Australia Department of Commerce, Elsevier, Prodigital and Bio-Lofic SAS and exhibitors Ivium Technologies, Pine Research Instrumentation, Metrohm Autolab B.V./Metrohm Nordic and eDAQ is gratefully acknowledged. Thank you all for making the 10th ISE Spring Meeting a success!

The Best Poster Prize winners were:

Division 1 - Analytical Electrochemistry

Fernando Cortés Salazar (Laboratoire d'Electrochimie Physique et Analytique (LEPA), Ecole Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland)

Stephen Parker (School of Chemistry, The University of New South Wales, Sydney,

Australia)

Division 3 - Electrochemical Energy Conversion and Storage

Alar Jänes (University of Tartu, Tartu, Estonia)

Young Bok Kim (School of integrated technology/Yonsei university, Incheon, Korea)

Christopher Reilly (Department of Chemistry, University of Newcastle, Callaghan,
Australia)

2012 ISE Report from the Belgian Regional Representative

(Prepared for the ISE Regional Representatives meeting to be held during the 63rd Annual Meeting of the ISE, Aug. 19th – 24th, 2012, Prague, Czech Republic)

Members

The number of ISE members within Belgium is 45. An increase of 5 members has been noted compared to 2011.

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

- Division 4: ELECTROCHEMICAL MATERIALS SCIENCE - 21 members
- Division 3: ELECTROCHEMICAL ENERGY CONVERSION AND STORAGE- 17 members
- Division 2: BIOELECTROCHEMISTRY- 14 members
- Division 1: ANALYTICAL ELECTROCHEMISTRY and Division 5: ELECTROCHEMICAL PROCESS ENGINEERING AND TECHNOLOGY - 13 members
- Division 7: PHYSICAL ELECTROCHEMISTRY –12 members
- Division 6: MOLECULAR ELECTROCHEMISTRY - 8 members

Activities

- A one day workshop on the topic “Electrochemistry and Biointerfaces” has been organized at the Université Libre de Bruxelles on September 23rd 2011 (see program on next page).
- The Annual Symposium of the KNCV Working Group (Netherlands) on Electrochemistry has been held in Brussels on November 4th, 2011. This symposium was on Electrochemical Sensors. The symposium is a common meeting ground for fundamental and applied electrochemistry experts from the Netherlands and Belgium.
- In 2012, The KNCV symposium will be held at the TU Delft on November 9th. The symposium, will be focused on the Electrochemistry of (photon)conversion processes. A presentation about the activities of the ISE will be held at this meeting.

Prof. Claudine Buess-Herman



Electrochemistry and Biointerfaces

September 23rd 2011

Université Libre de Bruxelles

Campus Plaine, Salle Solvay (Building N/O- level 5)

- 9h30 Welcome and coffee
- 10h-10h30 Using in-situ fluorescence microscopy to characterize the modified metal electrode interface
Dan Bizzotto, Amanda Musgrove, Jannu Moreno, Jeff Murphy (UBC, Vancouver)
- 10h30-11h Development of electrochemical methods for the in vitro study of cell cultures
Y. Van Ingelgem, S. Verguts, E. Lauwers, B. Landuyt, A. Hubin (VUB)
- 11h-11h30 Electrocatalysis in biomacromolecules. Structure-sensitive analysis of proteins
E. Palecek (Institute of Biophysics, Brno)
- 11h30-12h Electrochemical detection of biomolecules: DNA, peptides and aptamers
Th. Doneux, E. Triffaux, A. De Rache, C. Buess-Herman (ULB)
- 12h-12h30 New potentials in electrochemical analysis of thiols
J.-M. Kauffmann (ULB)
- LUNCH (Building A)
- 14h-14h30 Pyridoacridone DNA Intercalators as a tool in Bioanalytical Chemistry
L. Bouffier (Université de Bordeaux)
- 14h30-15h Bio-sensing: from using gelatin as biocompatible matrix to the detection of environmentally important molecules
K. De Wael (Universiteit Antwerpen)
- 15h-15h30 Label-free electrochemical biosensors for medical and environmental applications
H.V. Tran, B. Piro, S. Reisberg, V. Noel, M.C. Pham (Université Diderot, Paris 7)
- 15h30-16h Detection of biomolecules using an interdigitated capacitive microarray: development and applications
Nancy Van Overstraeten (UCL)

DRINKS (Building A)

Registration is free but mandatory

For participation please send an email (slabouve@ulb.ac.be) before September 15.

Contacts persons: C. Buess-Herman (cbuess@ulb.ac.be), Th. Doneux (tdoneux@ulb.ac.be)

INTERNATIONAL SOCIETY OF ELECTROCHEMISTRY

ISE Regional Representative in Brazil

2011/2012 Report

This report covers the activities conducted by Romeu Cardoso Rocha Filho and Edson A. Ticianelli, the former and current ISE regional representative in Brazil. Following the information given by Dr. Musiani with respect the authors of papers published in *Electrochimica Acta*, several new members have been recruited. The large interest in the Prague ISE Meeting has also encouraged several new applications. As a result, today there are 90 ISE members in Brazil (July 2012), 28 more than in December 2011.

ACTIVITIES

- 1) Member of the Scientific Committee of the 18th. Simpósio Brasileiro de Eletroquímica e Eletroanalítica, which occurred in Bento Gonçalves, Rio Grande do Sul in August, 2011 with the organization conducted by ISE members. More than 450 contributions were presented, by the authors from several Brazilian states.
- 2) Member of the Scientific Committee and plenary conferencist of the XX Congresso Iberoamericano de Eletroquímica, which occurred in Fortaleza, Ceará in March, 2012, with the organization conducted by ISE members. More than 400 contributions were presented, by the authors from several Brazilian states and by all countries of the iberoamerican communities, including Argentina, Mexico, Chile, Spain, Portugal, etc.

Edson Antonio Ticianelli

Regional Representative of Brazil

Institute of Chemistry of São Carlos

University of São Paulo

ISE Report 2012 from the Regional Representative of Canada

Membership

Following the information provided by Dr. M. Musiani with respect to the authors who published papers in *Electrochimica Acta*, a few new members have been recruited. The number of the ISE members within Canada has increased from 77 in August 2011 to 81 in July 2012.

Activities as the Regional Representative

- To promote ISE and to recruit new members in Canada, I put a two-page newsletter together and sent it before the 2012 New Year to all ISE members within Canada and to non-ISE members who have research interests in Electrochemistry.
- Our proposal to organize one of the ISE 2014 Spring/Topical Meetings in Niagara Falls, Ontario, Canada, has been approved. Preparation for the meeting is under way. Some highlights will be presented at the 2012 ISE General Assembly.



Aicheng Chen
Professor and Canada Research Chair
ISE Regional Representative - Canada

July 27, 2012

ISE Regional Representative of Chile

2011/2012 Report

The electrochemical Chilean community although small has grown steadily, with the incorporation of doctoral graduates, to the different universities.

Activities:

- The Chilean Chemical Society organized the biannual symposium in November 2011, where the Electrochemical Division held its annual meeting.
- The Electrochemical Division of the Chilean Chemical Society is organizing the IV Chilean Electrochemistry Symposium for the next November. As usual, this symposium would bring together the electrochemical community in Chile, with great participation of undergraduate and graduate students. Besides sharing some foreign researchers.
- Now, we are also preparing the SIBAE-2014 (Sociedad Iberoamericana de Electroquímica) Symposia, to be held probably in March 2014. You will send the information to participate in defining the date, place and theme of the meeting.



Report of the China Section of ISE 2012

1. Scientific meetings

1) 28th Annual meeting of Chinese Chemical Society (CCS), Electrochemistry Section

The 28th CCS Annual Meeting was held in April 13-16, 2012 in Sichuan University, Chengdu, China. As the active member of CCS, Chinese Society of Electrochemistry (CSE) organized the Electrochemistry Section (the 10th Section) of the 28th CCS Annual Meeting. The main theme of the Electrochemistry Section is "Electrochemistry makes contributions to energy source, clean environments and economy development". Over 310 Chinese electrochemists attended the symposium.

The meeting arranged 19 invited lectures, 80 oral presentations and 69 posters on the subjects covering analytical electrochemistry, materials electrochemistry, optoelectronic electrochemistry, bio- and environmental electrochemistry, nano-electrochemistry, electrochemical synthesis, fuel cells and lithium ion batteries. Based on the success of the electrochemistry meeting, the Electrochemistry Section was awarded an "Excellent Organization Prize" by the Chinese Chemical Society.

2) 13rd National organic electrochemistry and industrial applications conference

The 13rd National organic electrochemistry and industrial applications conference was held in April 26-29, 2012 in Nanjing, organized jointly by CSE, the Society of Chinese Fine Chemical Technology and the National Society of Organic Electrochemistry and Industrial Application of China. The main theme of the conference is "Green Production Technology in Electrochemical Industry". More than 210 Chinese electrochemists and electrochemical engineers attended the conference.

There are 11 plenary lectures, 24 invited lectures and 116 oral presentations in the conference, covering the subjects of basic research on organic electrochemistry, organic electrochemical synthesis, industrial application of organic electrochemistry, electrocatalysis and modified electrodes, bioelectrochemistry, organic batteries, electrochemical polymerization of organic polymers, new materials, new technology and green chemistry. The conference played an important role in promoting the progress of research and application of organic electrochemistry in China.

2. International Chemistry Year of 2011

CSE actively attended the international chemistry year in 2011, including setting up a special column of "International Chemistry Year" in the CSE journal "Electrochemistry", advertising the International Chemistry Year in the 16th CSE Meeting which was held in Chongqing in October 14-16, etc. Therefore, CSE won the name of Advanced Society of International Chemistry Year in China.

Zhongfan Liu
Regional representative, China
Peking University
Beijing 100871
China
August 9, 2012



ISE - ANNUAL REPORT FOR CROATIA / HRVATSKA 2011 / 2012

Number of members:

The current number of ISE members in Croatia is 35. It is changed from last year for 3 scientists, namely: Petra Vukosav, Strmečki Kos Slađana and Ivana Novak.

Activities:

During the last year we were very active and organized The third day of electrochemistry. The details you can see on www.elektrokemija.com. In the same time our young members, organized by Dijana Jadreško, presented their works on ISE-SSRSE. The details of meeting you can find on: www.elektrokemija.com

In the organization of The III RSE-SEE (The third Regional Symposium on electrochemistry: South-East Europe) our colleges and ISE members Višnja Horvat-Radošević (scientific committee) and Zoran Mandić (organizing committee) were very active.

Marijana Kraljić Roković (ISE member) organised visit for undergraduate students of the Faculty of Chemical Engineering and Technology in Zagreb to aluminium production plant (Aluminij d.d.) in Mostar, Bosnia and Herzegovina. International Society of Electrochemistry has supported this visit and partially covered transportation expenses.

Zoran Mandić, ISE member, (University of Zagreb) will organize The 6th European Summer School of Electrochemistry Engineering from 16. till 21. September 2012 in Zadar. Informations on the school you can find on: www.fkit.hr/essee6. The school will be sponsored by ISE.

Irena Ciglencečki (ISE member) is organizing workshop named “Voltammetry and Geotraces” ESF COST 801 Meeting in Šibenik, Croatia/Hrvatska , at the Ruđer Bošković Institute marine station Martinska, from October 6th to October 9th 2012 (<http://www.irb.hr/Istrazivanja/Zavodi-i-centri/Zavod-za-istrazivanje-mora-i-okolisa/Laboratorij-za-fizicku-kemiju-vodenih-sustava/Konferencije/Voltammetry-Workshop>). The Aim of workshop is explained in the following text: “Voltammetric techniques have played an important and vital role in the development and maturation of chemical oceanography as a scientific field. International programs in the past, from GEOSECS to JGOFS, have helped expand the range of marine chemical applications for which voltammetry is applied and have led to a better understanding of the distribution, speciation and biogeochemical cycling of the elements in the ocean. Now in the midst of the international GEOTRACES program it is a perfect opportunity to both look back at the achievements of voltammetric methods and to see into where future applications can contribute”.

A lot of our members will be present on our 63th meeting in Prag. As you see, in the last year we were very good, very good indeed.

Šeojka Komorsky-Lovrić

ISE-RR of Croatia / Hrvatska

Zagreb, 15. 07.12.



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July 28, 2012

REPORT 2012 of the ISE Regional Representative – Czech Republic

Membership

Current status of the membership from the Czech Republic is 41 members, whereas in 2011 the membership was 36. This significant increase is mainly due to the increased publicity of the ISE before the Annual Meeting of the Society to be held in Prague in August as well as due to the well-established personal contacts among the scientists within the Czech Republic. We succeeded in attracting mainly new student members and some non-member electrochemists. Further increase of the membership is feasible mainly through the recruitment of new PhD students. Even though my first term as a regional representative will end in 2012, if re-elected, my goal for 2013 is to achieve that the current student members upon completion of their studies stay within the society.

Activities

Main activities in 2012 were connected with the preparation of 63rd annual ISE meeting in Prague and its' satellite meetings. Many ISE members from the Czech Republic reside in Prague and will participate actively in the organization of these meetings. In addition to the Annual Meeting the Czech electrochemists will actively participate in the organization of two ISE sponsored satellite meetings: Electromembrane processes and materials (Cesky Krumlov, 26-29 August, 2012) and Spectroelectrochemistry (Dresden, 26-29 August, 2012). Both meetings will provide good opportunity for the students to learn more about the ISE society and membership advantages.

Prepared by:

Magdaléna Hromadová
Regional Representative
Czech Republic

International Society of Electrochemistry
Annual Regional Report of Denmark
July 2012

10. July 2012
Ref: qfli1200d13

1. ISE members

By the date of reporting there are 31 ISE members in Denmark, increased by 9 since the last report by the end of 2011. The interest of the Danish members in term of ISE divisions is as follows:

- Division 2. Bioelectrochemistry (14 members)
- Division 4. Electrochemical Materials science (14 members)
- Division 6. Molecular Electrochemistry (11 members)
- Division 1. Analytic electrochemistry (9 members)
- Division 3. Electrochemical Energy Conversion (8 members)
- Division 7. Physical Electrochemistry (8 members)
- Division 5. Electrochemical process Engineering and technology (5 members)

2. Activities

The Danish ISE members have actively involved in organizing the ISE sponsored Carisma 2012 – the 3rd Carisma International Conference on Medium and High Temperature Proton Exchange Membrane Fuel Cells, to be held on 3 - 5 September 2012, Copenhagen. About 120 abstracts have been received.

Another event, also jointly organized with the Danish ISE members, is a local workshop on materials and technologies for intermediate temperature fuel cells and water electrolyzers, to be held on 6th September 2012, at Technical University of Denmark, Lyngby, Denmark. 6 invited speakers and 8 ph.d. students, of whom are 3 ISE members, will give oral presentations.

With best wishes

Qingfeng Li
The ISE Representative in Denmark

International Society of Electrochemistry

Annual ISE report of Estonia – 2011/2012

ISE members and recruitment

To recruit new members, letters have been sent to colleagues publishing in *Electrochimica Acta*, based on the lists given by M. Musiani. The number of ISE members in Estonia has increased slightly during the last year and the current number of members in Estonia is 24. Efforts to recruit new members continue, especially targeting new PhD students and young scientists.

Electrochemical research activities and conferences

Many Estonian electrochemists attended the 10th Spring Meeting of the International Society of Electrochemistry in Perth, Australia (April 15-18, 2012), 11th Spring Meeting of the International Society of Electrochemistry in Georgetown, Washington, DC, USA (May 23-25, 2012) and ISE sponsored International Workshop on Electrochemistry of Electroactive Materials, Szeged - Hódmezővásárhely, Hungary (June 3-8, 2012).

A number of attendees are also expected to attend the 63rd ISE Annual Meeting at Prague, Czech Republic.

Tartu, July 13, 2012

Dr. Alar Jänes

Regional Representative of Estonia

August 17th, 2012

Report 2012 from the ISE Regional representative for Finland

(prepared for the ISE Regional Representatives meeting to be held in Prague, Czech Republic, during the 63rd Annual Meeting of the ISE between August 19th and 24th, 2012)

1. Membership

The number of members within Finland is currently 35. The number of members has unfortunately decreased during year 2012 by two members.

The interest of the Finnish ISE members for the different divisions is shown below in decreasing order of interest.

- Division 4, Electrochemical Materials Science
- Division 1, Analytical Electrochemistry
- Division 2, Bioelectrochemistry
- Division 7, Physical Electrochemistry
- Division 3, Electrochemical Energy Conversion and Storage
- Division 6, Molecular Electrochemistry
- Division 5, Electrochemical Process Engineering and Technology

2. Activities

Many members will attend the ISE meeting in Prague, representing several of the ISE divisions. Members have also been active in several other conferences related to electrochemistry, electrochemical sensors and conducting polymers.

Docent Johan Bobacka has also been selected as a member in the Scientific Meetings Committee (SMC) of ISE for the years 2012-2014.

Unfortunately, I am not able to attend the Prague Annual Meeting.

Dr. Rose-Marie Latonen
Åbo Akademi University
Process Chemistry Centre
Laboratory of Analytical Chemistry

ISE report 2012 - France

MEMBERSHIP

France has now **250 members** (253 members in 2011, 178 members in 2010).

SPONSORED MEETINGS

A national meeting has received a financial support from ISE France

1- “Journée Toulousaine d’Electrochimie” (JTE 2012)

Date: 17 July, 2012

Location: Toulouse

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

NEXT SPONSORED MEETINGS (2012)

2- 8th Sino-French Workshop on “Surface Electrochemistry of Molecules of Biological Interest & Biosensor Applications” and the 13th Workshop of the French Group of Bioelectrochemistry

Dates: 24-28 September, 2012

Location: Lacanau-Ocean

Sponsored by: Division 2

The expenses of Jean-Michel Kaufmann (invited speaker), Professor at the University “Libre de Bruxelles” will be paid thanks to ISE France support.

ACTIVITIES

We are pleased to announce that the **16th ISE Topical Meeting** will be held in **Saint-Malo** (France) from 31 May – 3 June 2015. The theme is: “Multi-scaled analysis of electrochemical systems”. The Meeting will be held in the “Palais du Grand Large” in the heart of the city of Saint-Malo.

July 26, 2012

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

ISE Report 2012 - Germany

Membership: 174 members on august 13th (144 in January)

ISE Sponsored meetings:

International workshop: Polymers at Electrodes – A Quarter of a Century later,
Bad Schandau, 6-9 November, 2011

2nd Ertl Symposium on Surface and Interface Chemistry, Stuttgart 24 - 27 June, 2012,

Spectroelectrochemistry, Dresden 26-29 August, 2012

to come in 2013:

8th Deutsches BioSensor Symposium, Wildau, 10-13 March, 2013

Meetings to come:

Electrochemistry 2012, 'Fundamental and Engineering Needs for Sustainable Development',
TU München, 17th – 19th September, 2012 (organized by GdCh, DBG, Dechema)

12th ISE Topical Meeting: Bioelectrochemistry 2013, Bochum 17-21 March, 2013

Helmut Baltruschat

Report 2012 of the ISE Regional Representative - Greece

(prepared for the Meeting of the ISE Regional Representatives to be held during the 63rd Annual Meeting of the ISE in Prague, Czech Republic on Monday, Aug. 20, 2012)

Members

- The number of ISE members in Greece has decreased slightly, by approximately 10%, since the last RR Meeting in Niigata and, at present, the Greek ISE section numbers 30 members. Their preferences in the activities of the different ISE Divisions are as follows:
 - Division 1, Analytical Electrochemistry (11)
 - Division 2, Bioelectrochemistry (1)
 - Division 3, Electrochemical Energy Conversion and Storage (16)
 - Division 4, Electrochemical Materials Science (21)
 - Division 5, Electrochemical Process Engineering and Technology (12)
 - Division 6, Molecular Electrochemistry (4)
 - Division 7, Physical Electrochemistry (10)
- Efforts to recruit new members continue, especially targeting young scientists.

Participation in international conferences organized or sponsored by the ISE

- Unfortunately, it did not become possible for ISE members from Greece to participate in the 62nd Annual Meeting of the ISE (Niigata, Japan). However, at least ten (10) ISE members from Greece will participate in the 63rd ISE meeting in Prague.

Other activities of Greek members of ISE

- Dr S. Sotiropoulos (Associate Professor, Aristotle Univ. of Thessaloniki, Greece) continued acting as Associate Editor of *Electrochimica Acta*.
- Dr S. Bebelis (Associate Professor, University of Patras, Greece) and Dr. N. Kouloumbi (Professor Emeritus, National Technical University of Athens, Greece) acted as Guest Editors of a Special Issue of the *Journal of Applied Electrochemistry*, dedicated to the 9th European Symposium on Electrochemical Engineering (9th ESEE).

Patras, Greece, 2 August 2012

Symeon Bebelis

Associate Professor

ISE Regional Representative – Greece

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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,
63rd Annual Meeting, Prague, Czech Republic, August 2012

1. ISE members from Hungary

The ISE membership from Hungary was practically stagnant in 2011-2012. Now we have 21 Hungarian ISE members. One of our colleagues, Prof. Kálmán Varga (Pannon University) has passed away in February 2012. Since people in the Hungarian community of electrochemists know each other very well, the recruiting activity among the authors of the society journals is not a viable option, but personal contacts should be taken advantage of. The current level of membership seems to be sustainable, but no significant increase can be foreseen in the near future. The Hungarian ISE community overlaps significantly with the Electrochemistry Committee of the Hungarian Academy of Sciences.

2. Scientific activity

Many Hungarian ISE members attended at two ISE-sponsored meetings in our region:

- 3rd Regional Symposium on Electrochemistry – South-East Europe (Bucharest, Romania)
- 7th International Workshop on Electrochemistry of Electroactive Materials (WEEM-2012), Szeged-Hódmezővásárhely (Hungary), 3-8 June 2012; chairmen of the Organizing Committee: G. Inzelt, C. Visy and M. A. Vorotyntsev. This meeting was sponsored by ISE Divisions 1 and 4. This meeting plays an important role in maintaining our activity since a few meetings are organized in the Eastern European region. However, every other WEEM even were organized in this region so far.
- The big majority of the Hungarian ISE community will attend the upcoming ISE meeting in Prague.



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

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. (Some people prepared nearly 10 reviews in the last year.)

I hereby indicate that I am willing to attend the upcoming Annual Meeting.

Budapest, 31 July 2012

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

László Péter
Senior research fellow
Head of the Electrodeposited Nanostructures Group
Metals Research Department
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ISE-Regional section of I. R. IRAN

Annual Report 2011/ 2012

Membership

Currently, Iranian ISE section has 24 individual active members.

Activities

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

- Three national electrochemistry seminars were held, two by the Iranian Electrochemical Society and the other one by the Electrochemical Division of Iranian Chemical Society.

- ✓ Iranian Electrochemical Society:

The 7th Annual meeting on 9-10 Nov., 2011 at K. N. Toosi University of technology, Tehran, Iran

The 5th Iranian Fuel Cell Seminar on 15-16 Feb., 2012 at Tarbiat Modares University, Tehran, Iran. The accepted manuscripts (40 papers) will be published in a special issue of International Journal of Hydrogen Energy.

- ✓ Electrochemical Division of Iranian Chemical Society:

The 10th Iranian biannual Electrochemistry Conference on 17-19 July, 2012, at Razi University, Kermanshah, Iran

- Five Iranian researchers were participated in 62nd annual TSE meeting (Niigata, Japan) on 12-16 September 2011.

Published articles

Based on SCOPUS reports in 2011, more than 6200 all documents of chemistry (4753 articles) by Iranian researchers have been published in ISI indexed Journals, 50 of which published in *Electrochimica Acta*. Published articles in *Electrochimica Acta* in 2011 show an increase of 24% compared to that of 2010 (38 articles).

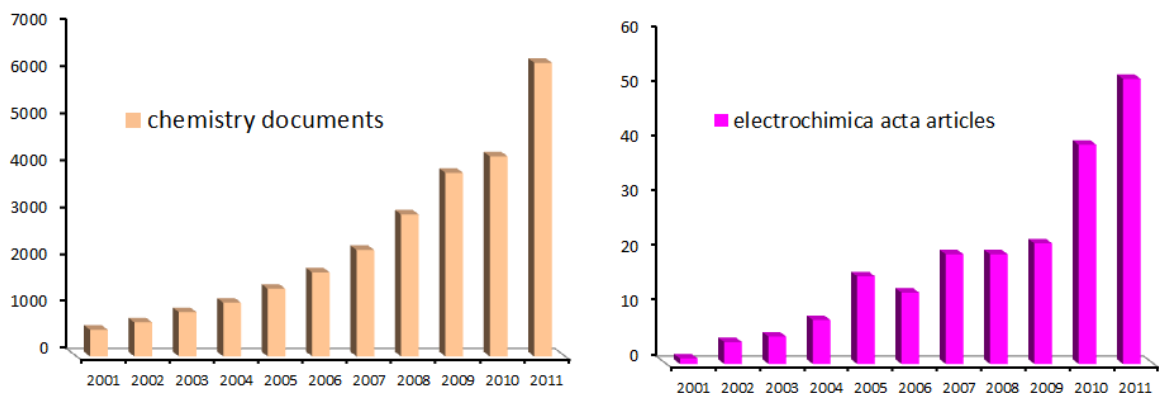


Figure 1. Statistical representation of publications of Iranian chemists since 2001 (Ref. Scopus, search by affiliation address: Iran, limited to: chemistry).

At last but not least, I hereby acknowledge the effort of ISE Conference Organization for facilitating the visa issuance of Iranian attendants, even though; unfortunately some of the participants did not receive Visa. I hope that in the 3rd millennium, scientific cooperation stands above all other issues.

Tehran, Aug. 15, 2012

M. F. Mousavi

Regional Representative of I. R. IRAN



ISE REPORT 2012 from the Regional Representative - Ireland

Members

The number of ISE members within Ireland has decreased to 23 in August 2012. I have met at local conference numerous young researchers in Electrochemistry. However, only a small fraction of them accepted to join ISE, as numerous of them prefer ACS and ECS, likely for their perceived strength and member support. It should be noted that there was no new member recruited through the communication to EA authors. Division 1 (8 members) and Division 4 (7) are the divisions with most members among those that explicitly choose a division, in line with Ireland strength in Analytical Chemistry and Material Science. A good number of 6 ISE members from Ireland will participate to the meeting in Prague. This is obviously due to the favourable location for the annual meeting.

Activities

In the last two years, I have actively promoted bioelectrochemistry within the Society for Industrial Microbiology (USA). I have organised two sessions on Microbial Fuel Cells and I think that there will be some space to attract the interest of scientist outside ISE, as the division 2 continue thriving.

I have been contacted by Prof. Robert Forster to seek ISE sponsorship for the forthcoming Electrochem Meeting in Dublin, Ireland (September 2012) organised by RSC. However, I am not aware of the outcome of this funding request.

Since May 2012, I moved to Singapore on sabbatical leave. Due to the obvious difficulty of interacting with Irish members from such a remote location, there was relatively little communication in the last few months.

August 19th, 2012

Enrico Marsili
School of Biotechnology
Dublin City University
Ireland



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Alexander Vaskevich
Senior Staff Scientist
Department of Materials&Interfaces

ISE REPORT 2012 from the Regional Representative ISRAEL

Members: The number of ISE members from Israel in 2012 stand on 21.

Meetings: This year several meetings conferences were hold:

- **Isranalytica, 2012** the 15th Annual Meeting of the Israel Analytical Chemistry Society took place on January 24-25 at the David Intercontinental Hotel, Tel-Aviv, Israel. Approximately 3200 participant attend conference making it one of the largest annual conferences in analytical chemistry in the World. Two-day conference included 16 keynotes and 49 lectures, about 300 vendors from all around the world attended the conference and exhibition. The International Society of Electrochemistry and CITAC have recognized Isranalytica for international traceability in analytical chemistry.
- **Israelectrochemistry 2012** was held in Tel-Aviv University on June 02. One-day conference included 21 oral talks of researchers from Israel, Germany and USA and poster session with more than 40 posters. Conference honored Prof. E. Peled on occasion of his 70th birthday.
- **NanoIsrael 2012**, 3^d International Conference and Exhibition held in Tel-Aviv on March 26-27 at the David Intercontinental Hotel, Tel-Aviv, Israel. Conference program included special session on Nano Energy devoted to electrochemical aspects of emerging nanotechnologies.

August 13th, 2012

Alexander Vaskevich
Regional Representative

International Society of Electrochemistry
Annual ISE report of Japan – 2011/2012

1. ISE members and recruitment

According to the information from Dr. Musiani about the authors of papers published in *Electrochimica Acta*, new members have been recruited via e-mail. Electrochemical Society of Japan (ECSJ) has been supporting to encourage ECSJ members (currently 5,295 members) to join in ISE from 2005 by making the membership registration process easier. During the last year the member has been increased by as large as 83 % and at the moment there are 429 ISE members in Japan (July, 2012). This big jump in the number of ISE members was driven by the activity of local organizing committee (LOC) of 62nd Annual Meeting of ISE held in Niigata, Japan. The LOC continuously encouraged Japanese electrochemists to join ISE and make presentations at the ISE meeting. On behalf of LOC of 62nd ISE Meeting and Japanese ISE members, I would like to express our appreciation for strong support to the Meeting held after the tragic earthquake and tsunami hitting east Japan in March, 2011.

2. Electrochemical research activities and conferences

ECSJ is the major society handling fundamental and applied aspects of electrochemistry and related fields. ECSJ has closely collaborated with ISE and the Electrochemical Society (ECS). The 2011 Fall Meeting of ECSJ was held at Niigata city on September 9-11, 2010 (approx. 1800 registered), just before the 62nd Annual Meeting of ISE held in the same city. The 79th Annual Meeting was held in Hamamatsu city on March 29–31, 2012 (approx. 1800 registered). The 2012 Fall Meeting of ECSJ will be held as Prime2012 jointly with ECS in Honolulu, Hawaii. ECSJ consists of regional branches and committees of electrochemistry-related technologies. They hold their individual meetings and conferences. Among them, the symposium organized by the committee of battery technology is the largest. More than 2,000 attendees are expected in the forthcoming 53rd Battery symposium held in Fukuoka, Japan.

Tomokazu Matsue

Regional Representative of Japan

Professor, WPI-Advanced Institute for Materials Research (WPI-AIMR), Graduate School of Environmental Studies, School of Engineering, Tohoku University

**International Society of Electrochemistry
Annual ISE report of Italy – 2011**

ISE members and recruitment

To recruit new members, letters have been sent to colleagues publishing in *Electrochimica Acta*, based on the lists given by Marco Musiani.

In 2012 there are **95 ISE members** in Italy.

The adhesions to the different divisions are as follows:

Division 1: 30 adhesions
Division 2: 14 adhesions
Division 3: 46 adhesions
Division 4: 58 adhesions
Division 5: 24 adhesions
Division 6: 18 adhesions
Division 7: 29 adhesions

Participation to ISE bodies

Marco Musiani: Executive Secretary;

Salvatore Daniele: Past Chair of Division 1 – Analytical Electrochemistry.

ISE Activities

The following ISE-sponsored meetings were organized in Italy in the present year:

8th ECHEMS Meeting: Electrochemistry in Molecular Surface Science and Catalysis
28 June-1 July, 2012, Bertinoro - Emilia Romagna, Italy, Division 6

VI Aluminium Surface Science & Technology Symposium
27-31 May, 2012, Sorrento, Italy, Division 4

In the present year, the following meeting will still be under ISE's sponsorship:

18th World Interfinish 2012
Date: 14-16 November, 2012
Location: Milano, Italy
Sponsored by: Division 5
Contact: Pietro Luigi Cavallotti
Conference detail: www.interfinish2012.org

Renato Seeber
Regional Representative of Italy

Modena, September 4, 2011

ISE REPORT 2012 from Korea

Meetings

October 6-7, 2011: KECS fall meeting was held at KAIST, Daejeon, Korea. With more than 670 participants, two sessions highlight the young investigators and graduate students to encourage their works and to assist their job hunting.

April 12-13, 2012: KECS spring meeting was held at Kimdaejung Convention center, Kwangju, Korea. The meeting was successful with 700 participants covering all electrochemistry disciplines from fundamentals to applications.

June 17-22: 16th IMLB(international meeting on lithium batteries) was held at international convention center(ICC) in Jeju island, Korea. The main theme was New Era for Smart Energy Storage. There were more than 2000 participants from over 50 countries.

Members

The Korean section of ISE has currently its members more than 160 this year. The change in the number of members is not noticeable relative to the number of members in last year although the effort by encouraging the authors of EA papers to join membership is continued.

Prof. H. Kim, chair professor in Energy Systems Engineering Faculty of DGIST, Daegu, Korea, is now serving the society as a president-elect before his presidency of ISE from the next year.

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

I will be able to attend the 63rd ISE meeting in Prague with other Korean colleagues. Some of them are newly joined our society. Look forward to seeing you all.

July 17th, 2012

In-Hyeong Yeo, Regional Representative of Korea

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

International Society of Electrochemistry
Annual ISE report of Lithuania – 2011/2012

1. ISE membership.

The current number of ISE members in Lithuanian is 15. We are going to propose our new PhD students, to join ISE this autumn.

2. Participation in ISE sponsored meetings.

All ISE members of Lithuania participated in Lithuanian Chemistry Conference in October 2011, Vilnius, which was be dedicated to the International Year of Chemistry. One ISE members from Lithuania attended the ISE sponsored ESEAC 2012 meeting in Slovenia. We also expect to attend ISE Annual meeting in Prague.

3. Activities.

We have resubmitted proposal to organize ISE Spring meeting in Lithuania in 2015 or later.

Rimantas Ramanauskas

Regional Representative of
Lithuania, Vilnius
02 August 2012

REPORT OF THE REGIONAL REPRESENTATIVE IN MEXICO

In 2011, Mexico selected a new regional representative. By the beginning of the 2012 ISE Meeting, the section has 40 members, distributed along the scientific divisions of the society. This number is the highest for Mexico. From June 11 to June 15th, the XXVII Congress of the Mexican Electrochemical Society (SMEQ), was held in the city of Toluca, as a result of cooperation between the National Autonomous University of Mexico (UNAM), and the Autonomous University of Mexico's State, with around 200 works presented in 9 topics (Energy Conversion, Corrosion, Environmental Electrochemistry, Education on Electrochemistry, Electrodeposition and Surface Modification, Analytical Electrochemistry, Molecular Electrochemistry and Bioelectrochemistry, Electrochemical Engineering and Nanoelectrochemistry). Also, an Electrochemical specific symposium is included in the 30th Latin American Chemistry Congress, acting as the 47th National Congress of Chemistry.

We are currently working in the final details of the organization of the 64th Annual Meeting of the International Society of Electrochemistry, which will be held in Santiago de Querétaro, México, between September 8th to 13th in 2013. Location and venue places has been arranged between Fontismedia and the State of Queretaro, and the brochure has been distributed to the ISE members attending the Prague Meeting. Local Symposium Organizers are expected to be gathered by the end of the year before December 20th. All plenary speakers have been secured for presentation. I will personally talk with personnel of the National Institute of Migration (a branch from Mexico's State Department), to be informed on Visa / Passport issues and include this information in the Meeting Website.

Dr. Carlos Eduardo Frontana Vázquez
Regional Representative of Mexico

August 2012

ISE Report 2012 from the Regional Representative the Netherlands

(Prepared for the ISE Regional Representatives meeting to be held during the 63rd Annual Meeting of the ISE, Aug. 19th – 24th, 2012, Prague, Czech Republic)

Members

The number of members within the Netherlands is currently 28. A number of scientists based in the Netherlands have been contacted directly or following publications in *Electrochimica Acta*, as suggested. The number of members is stable 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):

1. Division 7: PHYSICAL ELECTROCHEMISTRY (12)
2. Division 4: ELECTROCHEMICAL MATERIALS SCIENCE (11)
3. Division 3: ELECTROCHEMICAL ENERGY CONVERSION AND STORAGE (9)
4. Division 1: ANALYTICAL ELECTROCHEMISTRY (9)
5. Division 5: ELECTROCHEMICAL PROCESS ENGINEERING AND TECHNOLOGY (8)
6. Division 6: MOLECULAR ELECTROCHEMISTRY (4)
7. Division 2: BIOELECTROCHEMISTRY (3)

Activities

This year, the *Koninklijke Nederlandse Chemische Vereniging* (KNCV) symposium will be held at the TU Delft on November 9th, 2012. The symposium, focused on the Electrochemistry of (photon)conversion processes, is a common meeting ground for fundamental and applied electrochemistry experts from the Netherlands and Belgium. A presentation about the activities of the ISE will be held at this meeting.

In 2011, the KNCV symposium, on the topic of Electrochemical Sensors, was held in Brussels, on November 4th.

A number of Dutch delegates attended the 62nd ISE Annual meeting in Niigata last year as well as the 11th Topical meeting in Washington, earlier this year. A total of 15 contributions (oral/posters) are scheduled for this year's meeting in Prague.

July 30th, 2012
Maarten Van Brussel
Metrohm Autolab B.V.

Utrecht, the Netherlands

Short report on Norwegian ISE activities in 2011/2012

Membership

The number of Norwegian members of the ISE steadily increased till 2009, but has over the last years reduced from its 23 members in 2009 to 18 members. The reduction in the number of members is suggested to reflect variations in the number of foreign PhD students doing theses in electrochemistry in Norway

Participation in ISE sponsored meetings

Academics and students from NTNU participated in the ISE annual meeting in Niigata, Japan in 2012.

Other

As in previous years, the funding of research in Norway has for many of the programmes relevant for electrochemistry shifted their focus from basic research to demonstration and industry projects. This is especially true in the area of renewable energy, which has been very important for Norwegian electrochemistry in recent years. This has affected the success rate for the academic and research institute sectors quite significantly, and as before funding from the EU is becoming more attractive as national sources dry up. The previously reported shift in the interest for PhD studies within electrochemistry has continued, and more Norwegian master students have chosen to continue their education with a PhD.

Electrochemistry is an important field in Norway mainly because of the strong electrolysis industry (especially aluminium electrowinning) and the corrosion protection activities associated with the offshore oil and natural gas production. Interest in renewable energy and energy storage has also affected electrochemical research positively.

August 10, 2012

Regional representative Norway
Svein Sunde
Department of Materials Science and Engineering
Norwegian University of Science and Technology
Trondheim, Norway
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August 3rd 2012

2012 Report from the ISE Regional Representative on Activities in Poland

(prepared for the Meeting of Regional Representatives to be held during Annual Meeting of International Society of Electrochemistry in Prague, Czech Republic (August 19-24, 2012))

One of the events sponsored by International Society of Electrochemistry (that was organized in Poland in 2011/2012) was "The 6th International Workshop on Surface Modification for Chemical and Biochemical Sensing, SMCBS'2011".that was held in Lochów near Warsaw in November 2011. Main organizers were professors W. Kutner and M. Opallo from the Institute of Physical Chemistry, Polish Academy of Sciences. Special emphasis was given to the exciting new developments in biosensors and biofuel cells, understanding of biological and biomimetic reactions, biomembranes structure and functioning, probing the electrical field effects on charge transfer and energy conversion in biological systems, and electroanalysis of inorganic and organic species in biological systems. Close cooperation of researchers working in different areas of chemistry, biology, medicine, physics and electronics and their interdisciplinary work forms the basis of the recent success and progress clearly seen in the bioelectrochemistry field. They were reflected in several inspiring lectures, discussions and poster presentations throughout the meeting.

In September 2012, Polish electrochemical community is organizing a 3-day symposium on modern electrochemistry and electroanalytical methods within the Annual Meeting of Polish Chemical Society in Białystok (prof. T. Krogulec from Białystok University is a main organizer). The symposium will provide an opportunity for Polish and foreign electrochemists to exchange ideas on future development of the area.

We are also getting prepared for the international Kurt Schwabe conference that will be held in September 2013 in Krakow, Poland (main organizers: prof. J. Banas from AGH University, prof. P. J. Kulesza from University of Warsaw, and Dr. L. Adamczyk from Czestochowa University of Technology). Traditionally, the meeting concentrated on various aspects of materials electrochemistry but, this time, the scope of conference will be expanded to electrochemical energy technologies.

Pawel J. Kulesza
Regional Representative of Poland



International Society of Electrochemistry Annual ISE report of Portugal – 2011/2012

Membership

The number of ISE members increased 17% from January to August 2012 passing from 29 to 34. Besides the direct contact with authors in *Electrochimica Acta* using the very helpful lists provided by Dr Musiani, other approach to get new members is to advise the participants of the going on courses and workshops of electrochemistry in Portugal.

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

Division 4. Electrochemical Materials science (18 members)

Division 1. Analytic electrochemistry (15 members)

Division 2. Bioelectrochemistry (14 members)

Division 6. Molecular Electrochemistry (14 members)

Division 7. Physical Electrochemistry (7 members)

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

Division 3. Electrochemical Energy Conversion (3 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 by portuguese ISE members were the Electrochemistry Day (Dec. 2011) and the XIV Iberic Meeting of Electrochemistry (Apr. 2012), both organized by the Portuguese Society of Electrochemistry.

Other activity developed by Portuguese ISE members is the forthcoming course on "Characterization of Electrode Surfaces: from Macro to Nanoscale", to be held on October, 29-31 at Faculty of Sciences of the University of Lisbon, organized by the independent group E-Inov (Electrochemistry and Innovation).

Jorge Correia
Regional representative
Portugal
August 2012



Report of the Romanian Regional Representative 2011-2012

Prof. Dr. Liana Maria MURESAN

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- **Membership**

At the moment, there are 39 active members in the Romanian section.

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

Electrochemical Society of Romania (**SER**)

Romanian Chemical Society (**SCR**)

Romanian Analytical Chemistry Society (**RACS**)

- **Organization of national and international conferences**

Romanian ISE members were involved in the organization of and participated to several scientific meetings:

The **3rd Regional Symposium on Electrochemistry: South-Est Europe (RSE-SEE3)** was held in Bucharest in Ramada Parc Hotel on May 13-17th 2012. Among 174 participants, representatives of 27 foreign universities and 10 universities in Romania were included.

In addition, a **Satellite Student Regional Symposium on Electrochemistry – SSRSE** sponsored by the International Society of Electrochemistry (ISE) took place in the same location on May 13th, 2012. A workshop on new materials for electrochemical recognition of mineral and biological species, Atelier scientifique international francophone “**Nouveaux matériaux pour la reconnaissance électrochimique des minéraux et des espèces biologiques**” acronyme **NOMARES** was also held in parallel on May 13-17th, 2012.

Cluj-Napoca, 7th July 2012

Prof. Liana Maria MURESAN

Romanian Regional representative

Report on the regional activity in Russia in the period Oct. 2011-Aug. 2012.

There are 51 ISE members in Russia (last year this number was 50). Active participation of ISE-student members in organizing electrochemical events was a positive tendency of this year.

ISE Satellite Student Regional Symposium on Electrochemistry was held in November 2011 at the Arbuzov Institute of Organic and Physical Chemistry in Kazan. It was the First Student Meeting in Kazan sponsored by ISE. The scope of the proposed student meeting included the following aspects of electrochemical science: preparative electrolysis, organic and organometallic electrocatalysis, and the elucidation of reaction mechanisms by electrochemical and spectro-electrochemical methods. No registration fee was required. The format of the meeting consisted of 19 oral presentations for 20 minutes. The meeting aggregated young scientists (undergraduate and graduate students) working in the field of electrochemistry from Kazan (Volga Region) Federal University, Moscow State University, Kazan National Research Technological University and A.E. Arbuzov Institute of Organic and Physical Chemistry. Presentations of young scientists were evaluated by scientific committee and first three presentations were rewarded with special prizes and diplomas.

As always the most active work was carried out by the staff of Electrochemistry Department of the Moscow State University. Every year the Electrochemistry department organizes a contest of scientific papers by young scientists in the field of physical chemistry and electrochemistry. Traditional Frumkin Readings were carried out in October. This year it was an international event with participation of Prof. Vesella Tsakova (Bulgaria), who gave an invited lecture. In addition to the scientific program during these readings the results of the contest of young scientists' publications are announced and a winner delivers a report. Traditional Faraday Christmas Lecture in December was devoted to the application of X-ray diffraction in crystallography, in particular, to some curious images, that sometimes can be obtained by this method.

The ISE-members from the staff of Electrochemistry department have organized a number of free-admission educational seminars and training courses for PhD-students and young scientists:

1. Lab training "Electrochemical nanostructuring", for IV year students of the Moscow Physico-Technical Institute, Chervnogolovka, Oct-Dec 2011, (electrodeposition of metal nanowires into AAO templates, with subsequent lithographic construction of contacts and formation of normal metal/superconductor nanostructures)

2. Special course "Boundary areas of physical chemistry and chemical physics"

(<http://www.elch.chem.msu.ru/rus/prgasp.htm>) March-April 2012, 25 PhD and diploma students, Faculty of Chemistry, MSU

ISE-members from the Electrochemistry department staff (with the attraction of the ISE-members from St.-Petersburg State University and A.N.Frumkin Institute of Physical Chemistry and Electrochemistry) actively participated in the organization of the following international electrochemical events:

1. 9-th International Workshop on Electrochemistry of Electroactive Materials (WEEM-2012), 3-8 June 2012 Szeged – Hódmezővásárhely, Hungary (ISE-sponsored)
2. 10th International Symposium on Systems with Fast Ionic Transport (ISSFIT), 1-4 July 2012. Chernogolovka, Moscow Region, Russia.
3. 63-th Annual Meeting of ISE, 19-24 August, Prague, Czech Republic
4. International school-conference "Molecular aspects of solid-state and interfacial electrochemistry"(MolE-2012). Dubna August 2012

Alexander Nekrasov

Regional Representative of ISE in Russia



ISE Regional Representative of Serbia 2011/2012 Report

Currently there are 39 ISE members from Serbia, two more than in 2011, and five more than at the end of 2011. Considering the relatively small number of electrochemists in Serbia, this number is significant. Unfortunately, one of the members of the ISE, Ljubica Pavlović, passed away in December 2011.

According to my knowledge, at least 20 electrochemists from Serbia will participate in the 63rd Annual Meeting in Prague.

ACTIVITIES

1. Organization of international conference **XIV·YuCorr -Exchanging Experiences in the Fields of Corrosion, Materials and Environmental Protection** April 17–20, 2012, Tara Mountain, Serbia. Conference was organized by the Serbian Society of Corrosion and Materials Protection – UISKoZaM. More than 60 contributions were presented, by the author from more than 10 countries, mostly from the region.
2. Participation in organization (and the presence of more than 15 members from Serbia) of ISE sponsored the **3rd Regional Symposium on Electrochemistry: South-East Europe (RSE-SEE3)**, held in Bucharest, Romania, May 13-17, 2012. **Satellite Student Regional Symposium on Electrochemistry – SSRSE** sponsored by the International Society of Electrochemistry (ISE) took place in the same location on May 13, 2012. Several students from Serbia attended this event. Finally, a workshop on new materials for electrochemical recognition of mineral and biological species, Atelier scientifique international francophone **Nouveaux matériaux pour la reconnaissance électrochimique des minéraux et des espèces biologiques - NOMARES** was also held in parallel on May 13-17, 2012. Few ISE members from Serbia took part in this workshop as well.
3. The organization of activities within the Electrochemical Division of the Serbian Chemical Society, including the organization and participation in **50th Jubilee Meeting of the Serbian Chemical Society**, particularly Electrochemical Section of the Meeting (Invited lecture, 2 oral and 11 poster presentation).

In year 2012 the following lectures were organized by the Division:

- a. **Dr Rastko Vasiljić**, University Edukons, Sremska Kamenica: Epitaxial crystal growth using the method of galvanic exchange limited to the monolayer.
 - b. **Dr Uroš Lačnjevac**, Institute of Multidisciplinary Research, University of Belgrade: Electrochemical deposition and characterization of composite coatings based on Ni and Mo-oxides as cathodes for hydrogen evolution in alkaline solutions.
4. Improving cooperation with the electrochemists from the region, primarily from Croatia. As a result of this cooperation a new Open Access Journal of Electrochemical Science and Engineering – JESE was launched: Two Issues (Vol 1 and 2) of the Journal were published (<http://www.jese-online.org>).

Sincerely,

Aleksandar Dekanski
Dekanski@ihtm.bg.ac.rs
<http://elchem.ihtm.bg.ac.rs>

Report 2012 of the ISE Regional Representative, South Africa

Prepared for the ISE Regional Representatives meeting to be held during the 63rd Annual Meeting of the ISE, Aug. 18- 24, 2012, Prague, Czech Republic

Membership

- 1) We have 29 active members from South Africa.
- 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.

Activities

- 1) The 13th Topical Meeting of the ISE (proposed topic: '*Advances in Nanoscale Electrochemical Materials Science and Manufacturing*') will now be held in Pretoria, South Africa, April 07 – 11, 2013. **PLEASE diarise the date and tell everyone, we look forward to welcoming you to the motherland, Africa!**
- 2) We organised a symposium on "Materials in Electrochemistry" during the 6th International Conference of the Africa Materials Research Society (6th A-MRS), December 11 – 16, 2011, Victoria Falls, Zimbabwe. This symposium was co-sponsored by the ISE.
- 3) South Africa/South Korean workshop on "Fuel Cell Technologies", July 11 – 12, 2012, Zebula Lodge, Limpopo Province, South Africa. One of the ISE ex-President-Elect and ISE Fellow, Prof Hasuck Kim, also attended.
- 4) CSIR/DST (Department of Science and Technology) International workshop on "Advanced Battery Technologies (ABT) Development Workshop", July 18 – 20, 2012, Kruger National Park, South Africa.
- 5) The 2nd International Symposium on Electrochemistry, themed "Electrochemistry for Energy", organised by the ElectrochemSA, July 19 – 20, 2012, University of the Western Cape, Cape Town, South Africa.

We are truly grateful to the ISE for always supporting us and helping us to grow.

Prepared by: **Kenneth I Ozoemena** (Regional Representative: South Africa)



Report 2012 from the ISE Regional Representative of Spain

Members

According to the Member Directory of ISE, the number of members within Spain is currently 107 (104 in 2011, 118 in 2010), coming from Universities, Research Institutes of CSIC, Technological centers and Spin-off. All the Spanish co-authors of papers published in *Electrochimica Acta* during 2011 have been contacted (in sequence of Marco Musiani information).

Activities

The ISE-sponsored XXXIII Annual Meeting of the Electrochemistry Group of the Spanish Royal Society of Chemistry (RSEQ), attended by 138 people, was celebrated in Miraflores de la Sierra (Madrid) between 1st July and 4th July 2012, organized by Prof. Pilar Ocon (UAM) and Dr. Angel Cuesta (CSIC).

The Meeting hosted the “Young researchers” ISE-sponsored session, which included: (i) the 18 flash poster presentations of PhD students; (ii) 3 Lectures by 3 promising young Spanish researchers (Marcos Pita, CSIC, Madrid; Dr. Carlos M. Sánchez, U. Alicante; and Dr. Mercedes Sánchez, CISDEM, CSIC-UPM, Madrid) and (iii) 4 invited Lectures by Dr. Joaquín Chacón (Saft Baterías S.L., Madrid), Prof. Wolfgang Schmickler (U. Ulm), Prof. Vincent Vivier (Lab. Interfaces et Systèmes Electrochimiques, UPR15 - CNRS, Paris) and Dr. Elizabeth Santos (U. Ulm).

ISE-Spain Travel Awards for Young Electrochemists

5 travel grants have been awarded to Young Spanish Electrochemists (ISE Members) to participate in the 63rd Annual ISE Meeting to be held in Prague

A new edition of the PhD program on electrochemistry - “*Electrochemistry: Science and Technology*” - was organized in January 2012 at the University of Burgos, coordinated by Vicente Montiel.

July 26th, 2012

Carlos M. Müller
Spain ISE Regional Representative
University of Barcelona



Report for the RR meeting in Prague 2012, Sweden

Members:

The number of members has since last year increased by more than 25% (presently 59 members). This is most likely due to a substantial increase in all kinds of activities related to future energy systems. The meetings in Nice and Prague also attracted new members, as well as the invitation e-mails sent as a result of publications in *Electrochimica Acta*. Gladly, many of the new members are younger researchers.

Conferences:

Many members will attend the ISE meeting in Prague, representing several of the ISE divisions. Members have also been active in several other conferences related to electrochemistry and renewable energy systems.

Planning has started to organize the first Nordic battery conference (preliminary in end of May 2013).

ESEAC 2014 (European society for electroanalytical chemistry) will be held in Sweden 2014. The planning for that conference is in progress.

Recruiting new chemistry students:

The efforts during the Year of Chemistry has continued. Younger ISE members are frequently involved in activities to promote chemistry, especially directed towards younger children. Examples include chemistry shows and hands-on experiments in city centra. Some of them have been filmed by regional television and are available on Youtube.

Best Regards,

Fredrik Björefors, RR Sweden
Aug. 16, 2012

Dr. Fredrik Björefors, Associate Professor
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SE-751 21 Uppsala
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Report from the ISE Regional Representative of SWITZERLAND (2012)

ISE Activities

There are no special activities in Switzerland related to the society during 2011.

Miscellaneous

- The 28th One-Day-Symposium of PSI's Electrochemistry Laboratory on May 2nd, 2012 taking place at Paul Scherrer Institut entitled : Electrochemistry for Renewable Energy Storage

- The organization of the 65th annual ISE meeting 31 August-5 September 2014 in Lausanne SWITZERLAND has been started (Chairman: Prof. Hubert Girault)

Scientific Themes of the 65th annual ISE:

- Recent Developments in analytical Electrochemistry
- Bioelectrochemistry
- Physical Modeling of Electrochemical Power Generator
- Electrochemistry of Materials and Nanomaterials
- Electrochemical Process Engineering and Technology
- Functional Electrochemistry
- Interfacial Electrochemistry
- Electrocatalysis
- Spectroelectrochemistry
- Nanostructured electrochemical Material
- Electrochemical energy Conversion and storage
- Photoelectrochemistry
- Dye Sensitized Solar Cells
- Chemical and Biochemical Sensors
- Electrochemical Instrumentation

Organizing Committee of the 65th annual ISE:

Ch. Comninellis
S. Cordoba de Torresi
H. Girault
M. Grätzel
H. Kim
H. Nishihara
M. Orazem
M. Rueda
Th. Schmidt
Th. Wandlowski

Prof. Ch.Comninellis
EPFL-Lausanne



1898

МІНІСТЕРСТВО ОСВІТИ І НАУКИ, МОЛОДІ ТА СПОРТУ УКРАЇНИ

НАЦІОНАЛЬНИЙ ТЕХНІЧНИЙ УНІВЕРСИТЕТ УКРАЇНИ
„КИЇВСЬКИЙ ПОЛІТЕХНІЧНИЙ ІНСТИТУТ”

NATIONAL TECHNICAL UNIVERSITY OF UKRAINE («KPI»)

№ 1450-195/1

September 10, 2012

REPORT 2012 (1.09.2011–31.08.2012)
**of the ISE Regional
Representative – Ukraine**

Membership

Current status of the membership from the Ukraine is 37 members, whereas in 2011 the membership was 33. This represents a significant increase and is due mainly to the well-established personal contacts among the scientists within the Ukraine. We succeeded in attracting not only new student members, but also some established non-member electrochemists. Further increase of the membership is feasible mainly through the recruitment of new PhD students. My goal for 2013 is to attract graduate students for membership in the scientific community.

Activities

1. An analysis of research and innovation electrochemists Ukraine and developed actions to improve performance that will meet the world rankings.
2. Expands the participation of Ukrainian scientists in carrying out joint research with foreign partners (France, Austria, Russia, Belarus, Italy).

Held

1. VI-th Ukrainian Congress on Electrochemistry (20 -23 September 2011, Dnepropetrovsk, Ukraine). Many ISE members from the Ukraine can participate actively in the organization.
2. International Conference of Young Scientists and Students (22 - 24 April 2012, Kyiv, Ukraine).
3. Organization and conducting of Ukrainian Student Olympiad on technical electrochemistry (24-28 May, 2012, Dnepropetrovsk Ukraine).
4. XI International Conference - Exhibition "Corrosion-2012" – "The problems of corrosion and anticorrosion protection of constructional materials" (4-6 June, 2012, Lviv, Ukraine).

Unfortunately, I will not be able to attend the ISE meeting in Prague due to the insufficient financial resources, for which I send my sincerest apologies.

Prepared by:
Prof. Olga Linyucheva
Regional Representative
Ukraine

ISE Annual Meeting 2012, Prague - Regional Representatives Meeting

United Kingdom (Regional Representative: Dr Tim Albrecht, since 2011)

Annual report, ISE UK Regional Section (2011-2012)

Over the last year, the ISE Regional Group UK has been quite active in engaging with the RSC Electrochemistry Group, of which I am an Executive Board member. In particular, the ISE has been involved in a range of local student meetings in an effort to publicize the Society and its activities. This included well-established "conventional" electrochemistry in the regions, but meetings on relatively new topics, such as nanopore sensing. It is hoped that, on the longer term, the Society is able to attract new members, especially amongst young researchers.

Since the last Annual Meeting in Niigata, the ISE has (co)sponsored

- A local postgraduate (PG) student meeting at Imperial College London on 14th December 2011, organized by Vivek Thacker and Ulrich Keyser (Cambridge), titled "Controlled molecular sensing with nanopores". Approximately 40 participants were in attendance and a small number of plenary speakers included Cees Dekker and Hagan Bayley.
- A general electrochemistry PG student meeting at the University of Manchester, Dept. Chemistry, organized by Briony Setterfield-Price and Robert Dryfe (co-sponsored by industry, ~ 45 attendees, 23th May 2012).
- A general electrochemistry PG student meeting at University College London, Dept. Chemistry, organized by Afit Elahi and Daren Caruana (co-sponsored by the RSC, 29th May 2012).
- A general electrochemistry PG student meeting at the University of Bath, Dept. Chemistry, organized by Jonathan Hall and Frank Marken ("Electrochemistry South-West", co-sponsored by the RSC and industry, ~80 attendees, 18th June 2012).

The Regional Group would like to thank the ISE for the quick turnaround time of the applications, which in some cases was a matter of days. Only in one case could the application not be processed in time, since the organizers had failed to submit the application form until the day before the meeting. They then withdrew.

In all cases, efforts were made to involve students from neighbouring countries; for example, London has got excellent train transport links to Paris (2 hours) and flight connections. At least, for the London nanopore meeting, we were able to attract participants from as far as Michigan.

Furthermore, the ISE has agreed to co-sponsor the UK Electrochem Meeting in Dublin from 02-04 September 2012, organized by Mike Lyons.

As discussed at the previous Regional Representatives Meeting in Niigata, we also explored in how far the Society might enhance its visibility in Social Media, such as Facebook. A survey amongst the UK members revealed a mixed response and in some way a generation gap. Young researchers tended to be more supportive than more senior colleagues, but in total only ~7-8 (out of ~170) responded to my request. I therefore decided not to pursue this any further and wait for responses from other Regional Groups who intended to trial.

Compared to last year, the membership has essentially remained constant with 173 members (down from 176 on 12th August 2011). This means we have consolidated a larger group size, compared to three years when we had 124 members. We will continue to engage with the RSC Electrochemistry and Electroanalytical Chemistry groups, to enhance the visibility of the ISE further with the hope of attracting more members in the near and medium-term future.

Finally, the UK Regional Group is also heavily in other activities of the Society with Prof. Robert Hillman acting as Immediate Past President of the ISE, Dr Mary Ryan as the Chair Elect of Division 4, Prof. Frank Walsh as the Past Chair of Division 5 and Dr Jay Wadhawan as (joint) Vice-Chair of Division 6 (at the time of writing this report).

Yours sincerely,


Tim Albrecht

27th July 2012

Report 2012 of the ISE Regional Representative in Venezuela

Profile of the Electrochemical Research on Venezuela

The Electrochemistry community in Venezuela is mainly located on three public universities (Universidad de los Andes (ULA), Universidad Simón Bolívar (USB) and Universidad del Zulia (LUZ), plus some spare colleagues on the Universidad Central de Venezuela (UCV), the Universidad de Oriente (UDO) and one public research institute (Instituto de Tecnología Venezolana para el Petróleo, INTEVEP), subsidiary of PDVSA, the official petroleum industry. The “Sociedad Venezolana de Electroquímica” (SVE) congregates around 20 full time professors and their students.

ISE Membership in Venezuela

The ISE reports 12 members on the Venezuelan Regional Chapter of which 9 are fulltime professors (3 retired) and 3 postgraduate students. Foreign currency controls and low salaries compromise payment of membership dues, with the concurrent decline of the Venezuelan ISE membership. Two poster communications (USB, ULA) are scheduled for the forthcoming 63 Annual ISE Meeting (Prague) by Venezuelan ISE members (2012), one oral contribution had to be canceled due to lack of funding (Dr. Vargas, USB).

Electrochemistry related Activities on Venezuela

The main local activity related to electrochemistry is the yearly “Encuentro Nacional de Electroquímica” (ENE). The XXV ENE was celebrated on march 2012 on Punto Fijo, Edo. Falcón, where 50 communications were presented. Local activities endure despite the above mentioned difficulties, demonstrating the existence of a active community. However, of those contributions, few reach international peer-reviewed journals. A quick search on Thompson’s WOS¹ reveals 9 electrochemistry related publications on 2011-2012.

General Commentaries

All commentaries from the former reports remain valid nowadays. Is not easy to understand how an oil producing country enjoying a decade of high oil prices reports such meager indicators for science related support and throughput. Some clues could be found on the “declaration of intentions” stated on the web page of the governmental office responsible of science affairs²: “The Ministry of Popular Power for Science, Technology and Intermediate Industries, is looking to build a new paradigm in science and industry that meets the requirements of the new socialist homeland model, which goes beyond a system of traditional knowledge generation to one in which converge the beliefs and knowledge of the people”. For those committed to formal science, without political adjectives and sound folklorisms, it’s difficult to find support from official sources, actually more focused on their own dogmatic agenda.

We would like to acknowledge the support received from the ISE directive board to overcome these difficulties and hope that in a not so distant future we should be able to resume our participation on the international electrochemistry community.

¹ (CU=(Venezuela)) AND Document Types=(Article). Timespan=2011-2012. Databases=SCI-EXPANDED.

² <http://www.mcti.gob.ve/Ciencia/>

