
PHYSICAL AND ANALYTICAL ELECTROCHEMISTRY DIVISION (PAED)

May 2016

Division Website: Currently not available

Division Officers (2015-2017)

Chair:	Dr. Pawel Kulesza pkulesza@chem.uw.edu.pl
Vice-Chair :	Dr. Alice Suroviec asuroviec@berry.edu
Secretary:	Dr. Petr Vanýsek pvanysek@gmail.com
Treasurer:	Dr. Robert Calhoun calhoun@usna.edu
Division Past Chair:	Dr. Robert Mantz Robert.a.mantz@us.army.mil

Members-at-Large:

Dr. Plamen Atanassov	plamen@unm.edu
Dr. David Cliffl	d.cliffl@vanderbilt.edu
Dr. Hugh De Long	hugh.delong@us.af.mil
Dr. Alanah Fitch	afitch@luc.edu
Dr. Luke Haverhals	luke.haverhals@gmail.com
Dr. Stephen Maldonado	smald@umich.edu
Dr. Sanjeev Mukerjee	s.mukerjee@neu.edu
Dr. Stephen Paddison	spaddison@utk.edu
Dr. Paul Trulove	trulove@usna.edu

Newsletter Editor: Petr Vanýsek

Symposium Planning Committee

*Pawel Kulesza, PAED Chair
(pkulesza@chem.uw.edu.pl)*

*Alice Suroviec, PAED Vice-Chair
(asuroviec@berry.edu)*

Recent Activities (Symposia)

229th ECS Meeting, May 29-Jun 2, 2016, San Diego, CA

- **L01 - Physical and Analytical Electrochemistry, Electrocatalysis, and Photoelectrochemistry General Session**
(Alice H. Suroviec and Pawel J. Kulesza)
- **L02 - Electrocatalysis 8**
(Minhua Shao and Gessie Brisard)
- **L03 - Biological Fuel Cells 7**
(Scott Calabrese Barton, Shelley Minteer, and Plamen Atanasov)
- Cancelled
- **L04 - Convocation on Chemically Modified Electrodes and Electroactive Polymers**
(David Cliffel, Alice Suroviec, and Pawel Kulesza)
- Cancelled
- **L05 - Supramolecular Materials**
(Hugh De Long, R.A. Mantz, and Hiroshi Imahori)
- **L06 - Ionic Liquids as Electrolytes**
(Stephen Paddison and Vito Di Noto)
- Cancelled
- **L08 - Electrochemistry in Geochemical Environments**
(A. Fitch)

PRiME 2016, Oct 2-7, 2016, Honolulu, HI

- **L01 - Physical and Analytical Electrochemistry, Electrocatalysis, and Photoelectrochemistry General Session**
(Alice Suroviec, Pawel Kulesza, Shelley D. Minteer, Plamen B. Atanassov, Bryan Chin, Won-Yong Lee, and David Cliffel)
- **L02 - Molten Salts and Ionic Liquids 20**
(Luke Haverhals, Robert Mantz, Paul Trulove, Mikito Ueda, Mike Carter, Elizabeth J. Biddinger, Jan Fransaer, Alice Suroviec, Sanjeev Mukerjee, Matthew Reichert, Frank Endres, Andreas Bund, Adriana Ispas, and Douglas M. Fox)
- **L03 - Electrode Processes 11**
(A. Hillier, Sanjeev Mukerjee, Nagahiro Hoshi, and Futoshi Matsumoto)
- Cancelled
- **L05 - Recent Progress in Electrogenenerated Chemiluminescence (ECL)**
(Ik-Soo Shin , Joohoon Kim, Robert Calhoun, and Bin Su)
- Cancelled
- **L06 - Recent Trends in Electrochemistry at ITIES**
(Hye Jin Lee and Paul Trulove)

231st ECS Meeting, May 28-Jun 2, 2017, New Orleans, LA

- **Electroanalytical Aspects of Environmental and Groundwater Problems**
(Alanah Fitch and Alice Suroviec)
- **Electrochromic and Chromogenic Materials**
(Pawel Kulesza, Aline Rougier, Xungang Diao, and Delia Milliron)
- **Graphene and Graphene Oxide Materials for Higher Performance Energy Conversion and Storage**
(David Cliffel, Christina Bock, and Prof. Michael Scott Arnold)
- **Ion-Conducting Polymeric (or, Polymer-based) Materials**
(Vito Di Noto and Ahmet Kosoglu)
- **Physical and Analytical Electrochemistry General Session and Grahame Award Symposium**
(Alice H. Suroviec and Andy Hillier)

232nd ECS Meeting, Oct 1-6, 2017, National Harbor, MD

- **PAED General Session**
(Alice Suroviec and Dr. Andrew C. Hillier)
- **Advanced techniques for In Situ electrochemical systems**
(Svitlana Pylypenko)
- **Bioelectroanalysis**
(Shelley Minteer)

- **Computational Electrochemistry**
(S. Paddison)
- **Education in Electrochemistry**
Physical and Analytical Electrochemistry
- **Electrocatalytic and Photoelectrochemical Conversion of Carbon Dioxide**
(Pawel Kulesza, David Cliffel, K. Rajeshwar, A. Bocarsly, M. Koper, and Turgut M. Gur)
- **Photoelectrochemistry and Photoassisted Electrocatalysis**
(David Cliffel)
- **Physical and Analytical Electrochemistry of Ionic Liquids 6**
(Paul Trulove, Robert Mantz, and Luke Haverhals)
- **Physical Electrochemistry of Multiple Electron Battery Couples**
(D. Buttry and Dr. Robert A. Mantz)
- **Spectroelectrochemistry IV**
(Andrew Hillier and Luke Haverhals)

233rd ECS Meeting, May 13-17, 2018, Seattle, WA

- **Electrochemistry and Consumer Products**
(Alanah Fitch and Alice Suroviec)
 - **Nanoporous Materials**
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Present PAED Luncheon is held during the 229th ECS Spring Meeting in San Diego, CA (May 30, 2016).

Next PAED Luncheon will be held during the 231st ECS Spring Meeting in New Orleans, LA (May, 2017).

PAED 2016
Treasurer's Report – 2015 Calendar Year

Total Income: \$15,099

Dues = \$5,020, Symposium Support = \$3,000

Total Expenses: \$79,707

Transfer to divisional awards \$60,000, Travel Grants over \$7,600, Symposia support = \$9,700

Balance (December 31, 2015): \$33,195

Students and Young Faculty Awards

PAED Travel Award Winners for the 228th ECS Meeting in Phoenix (October 2015)

Young Professionals:

- Joaquin Rodriguez Lopez
- Sadagopan Krishnan

Students:

- Guangtong Zeng Southern California
- Patrick Staley UC San Diego
- Charuksha Walgama Oklahoma State
- Karthikeyan Saravanan University of Pittsburgh
- Anahita Karimi Clarkson University

PAED Travel Award Winners for the 229th ECS Meeting in San Diego (May 2016)

Young Professionals:

- Christopher Rhodes Texas State
- Sophia Suarez CUNY Brooklyn

Students:

- Jorge Alberto Banda-Alemán - CIDETEQ
 - David M. Fabian – University of California, Irvine
 - Nicholas Stefan Georgescu – Case Western University
 - Soghra Jalilpour – University of Ottawa and National Research Council Canada
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Definition of PAED restated

ECS is carefully redefining the technical areas of its divisions to have more descriptive statements. The attached text is the “Purpose” of the division as it is intended to be included in ARTICLE II of the divisional bylaws. This is so far a draft, so changes are still possible.

Section 1. It shall be the purpose of the Division to stimulate research, education, and publication in the field of general fundamental electrochemistry and applied and theoretical electroanalytical chemistry; to cooperate with other divisions of the Society in the extension of scientific knowledge in the field of electrochemistry; and to advance the purpose of the Society.

Section 2. The Division shall accept the responsibility of fostering new areas of electrochemistry that might expand to form separate divisions.

Section 3. The Division shall accept the responsibility of active contribution to the content enhancement in the field of general fundamental electrochemistry and applied and theoretical electroanalytical chemistry.

Division Awards

Physical and Analytical Electrochemistry Division David C. Grahame Award

The Physical and Analytical Electrochemistry Division David C. Grahame Award was created in 1981 to encourage excellence in physical electrochemistry research and to stimulate publication of high quality research papers in the Journal of The Electrochemical Society.

Nomination Deadline: October 1, odd years

Presented: Spring meeting, odd years

Recipient qualifications

The recipient will be a currently active ECS Member who made some recent outstanding scientific contribution to physical electrochemistry. For the purpose of this award, “currently active” is to be measured by publication of more than one paper in the Journal and attendance at more than one Society meeting, as a member of the Society, within the previous five years. A nominee will be automatically considered through two successive award cycles. Re-nomination is permitted.

Award

The award consists of a scroll, and a \$1,500 prize. The recipient is required to attend the Society meeting at which the award is given and present a lecture in the general session of, or a division sponsored symposium. In the event that the award is made jointly to two or more co-recipients, each co-recipient will receive a scroll and a check for an amount to be decided by PAED.

The 2015 Grahame Award went to Hubert Gasteiger (the presentation was at the ECS Meeting in Chicago, Illinois).

Physical and Analytical Electrochemistry Division Max Bredig Award in Molten Salt and Ionic Liquid Chemistry

The Physical and Analytical Electrochemistry Division Max Bredig Award in Molten Salt and Ionic Liquid Chemistry was established in 1984 to recognize excellence in the field and to stimulate publication of high quality research papers in this area in the Journal of The Electrochemical Society. The award was financed by contributions from ARCO Metals Company and the Aluminum Company of America. Since this fund was established, an additional contribution was made by Princeton Applied Research.

Nomination Deadline: March 1, odd years

Presented: Fall meeting, even years

Recipient qualifications

The recipient will be a scientist working in the area of molten salt and ionic liquid chemistry with important contribution(s) to this area. The recipient need not be a member of the Society. A nominee will be automatically considered through two successive award cycles. Re-nomination is permitted.

Award

The award consists of a scroll and a \$1,500 prize. As the award presentation coincides with the International Symposium on Molten Salts and Ionic Liquids, the recipient is required to attend the corresponding Society meeting and present a lecture at the symposium. In the event that the award is made jointly to two or more co-recipients, each co-recipient will receive a scroll and a check for an amount to be decided by PAED.

The 2016 Bredig Awardee is Prof. Masayoshi Watanabe Yokohama National University. The presentation is expected to be at the fall ECS Meeting in Honolulu.

Upcoming ECS meetings

PRiME 2016

October 2-7, 2016 — Honolulu, HI

Hawaii Convention Center & Hilton Hawaiian Village

231st ECS Meeting

May 28-June 2, 2017 — New Orleans, LA

Hilton New Orleans Riverside

232nd ECS Meeting

October 1-6, 2017 — National Harbor, MD (greater Washington, DC area)

Gaylord National Resort and Convention Center

233rd ECS Meeting

May 13-17, 2018 — Seattle, WA

Seattle Sheraton and Washington State Convention Center

AiMES 2018

September 30-October 4, 2018 — Cancun, Mexico

Moon Palace Resort

235th ECS Meeting

May 26-June 2, 2019 — Dallas, TX

Sheraton Dallas

236th ECS Meeting

October 13-17, 2019 — Atlanta, GA

Hilton Atlanta

237th ECS Meeting
May 10-15, 2020 — Montreal, Canada
Palais des congress de Montreal

PRiME 2020
October 4-9, 2020 — Honolulu, HI
Hawaii Convention Center & Hilton Hawaiian Village