
PHYSICAL AND ANALYTICAL ELECTROCHEMISTRY DIVISION (PAED)

September 2017

Division Officers (2017-2019)

| | |
|-----------------------------|--|
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Symposium Planning Committee

*Alice Suroviec, PAED Chair
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*Petr Vanýsek, PAED Vice-Chair
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Recent and New Activities **(Symposia)**

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

- **A05 - Battery Materials: Beyond Li-Ion**
Battery Physical and Analytical Electrochemistry
(Jack Vaughey, Jack Vaughey, Yangchuan Xing, Kyle C Smith, and Christopher Rhodes)
- **A07 - Fast Electrochemical Processes and Devices**
Battery Energy Technology Physical and Analytical Electrochemistry
(Jeffrey Long, Christopher Johnsoin, Dr. Roseanne Warren, Thierry Brousse, Daniel Belanger, Wataru Sugimoto, Dr. Pawel J. Kulesza, and Andrea Balducci)
- **B01 - Carbon Nanostructures: From Fundamental Studies to Applications and Devices**
Nanocarbons Physical and Analytical Electrochemistry
(Prof. Slava V. Rotkin, Dr. Hiroshi Imahori, Prof. Olga V. Boltalina, and Dr. David E. Cliffl)
- **C03 - State-of-the-Art Surface Analytical Techniques in Corrosion 3**
Corrosion Physical and Analytical Electrochemistry
(Dev Chidambaram, Philippe Marcus, Paul M. Natishan, James J. Noel, and Donald Roeper)
- **F03 - Electrochemical Conversion of Biomass**

- Industrial Electrochemistry and Electrochemical Engineering Energy Technology Organic and Biological Electrochemistry Physical and Analytical Electrochemistry**
(Luis Diaz-Aldana, Elizabeth Biddinger, John Staser, Dr. Ramaraja P Ramasamy, Dr. Plamen B. Atanassov, and Dr. Mekki Bayachou)
- **I01 - Polymer Electrolyte Fuel Cells 17 (PEFC 17)**
Energy Technology Battery Industrial Electrochemistry and Electrochemical Engineering Physical and Analytical Electrochemistry
(Deborah J. Jones, Deborah J. Jones, Felix Buechi, Hubert Gasteiger, Adam Z. Weber, Pezhman Alireza Shirvanian, Karen E. Swider-Lyons, James M. Fenton, Thomas F. Fuller, Dr. Kazuhiko Shinohara, Peter N. Pintauro, Kelly A Perry, Prof. Hiroyuki Uchida, Peter Strasser, Christophe Coutanceau, Christophe Coutanceau, Shigenori Mitsushima, Thomas J. Schmidt, Robert A. Mantz, Sri Narayan, Vijay Ramani, Bryan S. Pivovar, Katherine E. Ayers, Prof. Yong-Tae Kim, and Dr. Hui Xu)
 - **L01 - Physical and Analytical Electrochemistry General Session**
Physical and Analytical Electrochemistry
(Alice Surovic and Dr. Andrew C. Hillier)
 - **L02 - Photocatalysts, Photoelectrochemical Cells and Solar Fuels 8**
Energy Technology Physical and Analytical Electrochemistry Sensor
(N. Wu, Dr. Deryn Chu, Dr. Pawel J. Kulesza, Jae-Joon Lee, Dr. Eric L. Miller, Dr. Vaidyanathan Ravi Subramanian, Tetsu Tatsuma , and Heli Wang)
 - **L03 - Physical and Analytical Electrochemistry of Ionic Liquids 6**
Physical and Analytical Electrochemistry Energy Technology Organic and Biological Electrochemistry
(Paul Trulove, Robert Mantz, Luke Haverhals, Vito Di Noto, and Dr. Mekki Bayachou)
 - **L04 - Spectroelectrochemistry 4**
Physical and Analytical Electrochemistry Organic and Biological Electrochemistry
(Andrew Hillier, Luke Haverhals, Dr. Graham T. Cheek, and Prof. Scott K Shaw)
 - **L05 - Bioelectroanalysis**
Physical and Analytical Electrochemistry Organic and Biological Electrochemistry Sensor
(Shelley Minter, Scott A. Calabrese Barton, Dr. Jessica Koehne, Dr. Mekki Bayachou, and Dr. Jessica Koehne)
 - **L06 - Fundamental Aspects of Electrochemical Conversion of Carbon Dioxide**

- Physical and Analytical Electrochemistry Energy Technology
Organic and Biological Electrochemistry Sensor
(Pawel Kulesza, David Cliffl, K. Rajeshwar, A. Bocarsly, M. Koper,
Nianqiang Wu, and Dr. Graham T. Cheek)**
- **L07 - Computational Electrochemistry
Physical and Analytical Electrochemistry Energy Technology
Industrial Electrochemistry and Electrochemical Engineering
(S. Paddison and Iryna Zenyuk)**
 - **L08 - Advanced Techniques for In Situ Electrochemical Systems
Physical and Analytical Electrochemistry Energy Technology
Organic and Biological Electrochemistry Sensor
(Svitlana Pylypenko, Prof. Sanjeev Mukerjee, and Dr. Graham T.
Cheek)**
 - **L09 - Multi-electron Redox Systems for Next Generation Batteries
Physical and Analytical Electrochemistry Battery Energy Technology
(D. Buttry, Dr. Robert A. Mantz, and Prof. Dr. Gang Wu)
Cheek)**
 - **L10 – Education in Electrochemistry
Physical and Analytical Electrochemistry Battery Energy Technology
Industrial Electrochemistry and Electrochemical Engineering
(Douglas M Fox, Alice Suroviec, Dr. Robert Lee Calhoun, and Dr.
Vaidyanathan Ravi Subramanian)**
 - **M02 - Practical Implementation and Commercialization of Sensors 2
Sensor Physical and Analytical Electrochemistry
(Mike Carter, Larry Nagahara, Rangachary (Mukund) Mukundan,
Ajit Kholsa, Ajit Kholsa, Petr Vanysek, Jin-Woo Choi, Dr. Petr
Vanysek, and Prof. Rudra Pratap)**
 - **Z05 - Sensors for Food Safety, Quality, and Security
Sensor Organic and Biological Electrochemistry Physical and
Analytical Electrochemistry Interdisciplinary Science and
Technology Subcommittee
(Bryan Chin, A. Simonian, J. Choi, Dr. Ramaraja P Ramasamy, Dr.
Nianqiang Wu, Dr. Alice H. Suroviec, Dr. Mekki Bayachou, Peter
Hesketh, and Peter Hesketh)**

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

- **A03 - Li-ion Batteries and Beyond
Battery Physical and Analytical Electrochemistry
(Dr. John T. Vaughey, Dr. Shirley Meng, Prof. Jihui Yang, Prof. Dr.
Pawel J. Kulesza, and Prof. Vito Di Noto)**
- **B01 - Carbon Nanostructures for Energy Conversion**

- Nanocarbons Physical and Analytical Electrochemistry**
(J. Blackburn, V. Di Noto, P. B. Atanassov, M. S. Arnold, S. Doorn, D. E. Cliffler, and C. Bock)
- **B03 - Carbon Nanotubes - From Fundamentals to Devices**
Nanocarbons Physical and Analytical Electrochemistry
(S. Doorn, Y. Gogotsi, P. J. Kulesza, M. Zheng, S. V. Rotkin, B. Weisman, and S. Maruyama)
 - **H04 - Wearable and Flexible Electronic and Photonic Technologies**
Electronics and Photonics Dielectric Science and Technology
Electronics and Photonics Energy Technology Physical and Analytical Electrochemistry Sensor Interdisciplinary Science and Technology Subcommittee
(Dr. Colm O'Dwyer, Prof. Sheng Xu, Prof. Dr. Jong-Hyun Ahn, Prof. Sang-Woo Kim, Prof. Yu-Lun Chueh, Jessica Koehne, Ajit Khosla, Dr. Wei Gao, Dr. Durga Misra, Dr. Shelley D. Minter, Scott Calabrese Barton, and Prof. Dr. Lain-Jong Li)
 - **I01 - State of the Art Tutorial in Low Temperature Fuel Cell Electrocatalysis: The Challenge of High Current Density Performance at Low Platinum Loading**
Energy Technology Industrial Electrochemistry and Electrochemical Engineering Physical and Analytical Electrochemistry
(Adam Z. Weber, P. Strasser, and Karen Swider-Lyons)
 - **I02 - Electrosynthesis of Fuels 5**
High Temperature Materials Energy Technology Industrial Electrochemistry and Electrochemical Engineering Organic and Biological Electrochemistry Physical and Analytical Electrochemistry
(John Staser, Gessie Brisard, John Flake, W. Mustain, X.-D. Zhou, Turgut Gur, Mogens Mogensen, and Hui Xu)
 - **I03 - Oxygen or Hydrogen Evolution Catalysis for Water Electrolysis 4**
Energy Technology Industrial Electrochemistry and Electrochemical Engineering Physical and Analytical Electrochemistry
(Dr. Hui Xu, Dr. Katherine E. Ayers, Dr. Pawel J. Kulesza, and Prof. Dr. Gang Wu)
 - **I04 - Materials for Low Temperature Electrochemical Systems 4**
Energy Technology Industrial Electrochemistry and Electrochemical Engineering Physical and Analytical Electrochemistry
(Dr. Minhua Shao, Prof. Dr. Gang Wu, and Dr. Robert A. Mantz)
 - **I05 - Renewable Fuels via Artificial Photosynthesis or Electrolysis 3**
Energy Technology Organic and Biological Electrochemistry Physical and Analytical Electrochemistry Sensor
(Dr. Nianqiang Wu, Prof. Jae-Joon Lee, Dr. Pawel J. Kulesza, Prof. Mani Manivannan, Dr. Eric L. Miller, Prof. Bunsho Ohtani, Dr.

- Vaidyanathan Ravi Subramanian, Dr. Heli Wang, Dr. Nicolas M. Gaillard, and Prof. Frank E Osterloh)
- **K02 - Nature-Inspired Electrochemical Systems 3**
Organic and Biological Electrochemistry Energy Technology
Nanocarbons Physical and Analytical Electrochemistry
Interdisciplinary Science and Technology Subcommittee
(Dr. James D. Burgess, Dr. William Earl Mustain, Dr. David E. Cliffler, and Dr. Shelley D. Minteer)
 - **K03 - Oxidation and Reduction: Exploring Electron Transfer Reactions in Chemistry and Biology**
Organic and Biological Electrochemistry Physical and Analytical Electrochemistry
(Prof. Kevin D. Moeller, Dr. James F. Rusling, Dr. Mekki Bayachou, and Dr. Hugh C. De Long)
 - **L01 - Physical and Analytical Electrochemistry, Electrocatalysis and Photoelectrochemistry General Session**
Physical and Analytical Electrochemistry
(Dr. Alice H. Suroviec and Anne C. Co)
 - **L02 - Electrocatalysis 9: Symposium in Honor of Radoslav Adzic**
Physical and Analytical Electrochemistry Energy Technology
(Dr. Minhua Shao, Gessie Brisard, Dr. Mekki Bayachou, Dr. Nenad M. Markovic, Miomir B. Vukmirovic, Dr. Piotr Zelenay, Dr. Kotaro Sasaki, Stanko R Brankovic, Prof. Dr. Junliang Zhang, and Dr. Jia X. Wang)
 - **L03 - Biological Fuel Cells 8**
Physical and Analytical Electrochemistry Energy Technology
(Dr. Shelley D. Minteer, Scott A. Calabrese Barton, and Dr. Plamen B. Atanassov)
 - **L04 - Charge Transfer: Electrons, Protons, and Other Ions 3**
Physical and Analytical Electrochemistry Energy Technology
(Prof. Stephen J Paddison, Vito Di Noto, and Prof. Andy M. Herring)
 - **L05 - Oxygen Reduction Reactions**
Physical and Analytical Electrochemistry Energy Technology
(Dr. Pawel J. Kulesza, Vito Di Noto, Dr. Robert A. Mantz, Dr. Piotr Zelenay, Dr. Plamen B. Atanassov, Dr. Paul E. Gannon, Dr. Yang Shao-Horn, Dr. Hui Xu, Dr. Minhua Shao, Prof. Sanjeev Mukerjee, Dr. Jeffrey W. Fergus, and Xiao-Dong Zhou)
 - **L06 - Nanoporous Materials**
Physical and Analytical Electrochemistry Energy Technology
(Dr. Roseanne Warren and Prof. Kunal Karan)
 - **L07 - Electrochemistry and Consumer Products**
Physical and Analytical Electrochemistry Industrial Electrochemistry and Electrochemical Engineering

- (Alanah Fitch, Alice Suroviec, and Dr. E. Jennings Taylor)
- **L08 - Electrochemically Assisted Fluorescence**
Physical and Analytical Electrochemistry
(Dr. David E. Cliffl)

234th/AiMES 2018, Sept 30 - Oct 4, 2018, Cancun, Mexico

- **TENTATIVE A02 - Challenges in Novel Electrolytes, Organic Materials, and Innovative Chemistries for Batteries - in Honor of Michel Armand**
Battery Energy Technology Physical and Analytical Electrochemistry
(Dr. Dominique Guyomard, Prof. Vito Di Noto, Prof. Teofilo Rojo, Prof. Maria Forsyth, Prof. Philippe Poizot, and Dr. Karim Zaghib)
- **TENTATIVE A05 - Beyond Lithium-Ion Batteries**
Battery Energy Technology Physical and Analytical Electrochemistry
(Bryan McCloskey, Dongping Lu, Jian Liu, Dr. Marina Yakovleva, and Prof. Dr. Pawel J. Kulesza)
- **TENTATIVE A08 - Physicochemical Modelling of Novel Components and Devices for Energy Storage: from Atomistic Level to Macroscopic Processes**
Battery Energy Technology Physical and Analytical Electrochemistry
Sociedad Mexicana de Electroquímica (SMEQ)
(P. B. Balbuena, J. Vazquez-Arenas, A. A. Franco, Dr. Shelley D. Minter, and S. J. Paddison)
- **TENTATIVE B01 - Carbon Nanostructures: From Fundamental Studies to Applications and Devices**
Nanocarbons Physical and Analytical Electrochemistry
(Prof. Slava V. Rotkin, Prof. Dr. Hiroshi Imahori, Prof. Olga V. Boltalina, and Dr. David E. Cliffl)
- **TENTATIVE E01 - Magnetic Materials Process and Devices 15**
Electrodeposition Physical and Analytical Electrochemistry
(W. Schwarzacher, W. Schwarzacher, and Johna Leddy)
- **TENTATIVE F02 - Electrochemical Separations 2**
Industrial Electrochemistry and Electrochemical Engineering Energy Technology Physical and Analytical Electrochemistry
(Dr. Hui Xu)
- **TENTATIVE F03 - Electrochemical Treatment of Contaminated Water, Soil, and Air: State of the Art and Trends in Research and Technology of Environmentally Oriented Electrochemical Approaches**
Industrial Electrochemistry and Electrochemical Engineering
Physical and Analytical Electrochemistry Sociedad Mexicana de Electroquímica (SMEQ)

- (L. A. Godinez, Prof. Dr. Juan Manuel Peralta Hernandez, and Dr. Plamen B. Atanassov)
- **TENTATIVE H06 - Fundamentals and Applications of Microfluidic and Nanofluidic Devices 4**
Electronics and Photonics Energy Technology Physical and Analytical Electrochemistry
 (Sang Woo Joo, Xiangchun Xuan, Prof. Shizhi Qian, Dr. Helmut Baumgart, and P. Vanysek)
 - **TENTATIVE H07 - 1st International Symposium on Electronic, Thermal, and Electrochemical Properties of Metal Organic Frameworks (MOFs): Technology, Applications, and Emerging Devices**
Electronics and Photonics Energy Technology Organic and Biological Electrochemistry Physical and Analytical Electrochemistry
 (Dr. Engelbert Redel, Dr. Helmut Baumgart, Prof. Dr. Gunther Wittstock, Christof Woell, and Prof. Stephen J Paddison)
 - **TENTATIVE I01 - Polymer Electrolyte Fuel Cells 18 (PEFC 18)**
Energy Technology Battery Industrial Electrochemistry and Electrochemical Engineering Physical and Analytical Electrochemistry
 (Dr Deborah J. Jones, Prof. Dr. Hubert Gasteiger, Prof. Hiroyuki Uchida, Prof. Dr. Thomas J. Schmidt, Felix Buechi, Dr. Karen E. Swider-Lyons, Dr. Bryan S. Pivovar, Prof. Peter N. Pintauro, Dr. Vijay K. Ramani, Dr. James M. Fenton, Prof. Dr. Peter Strasser, Dr. Katherine E. Ayers, Adam Z. Weber, Dr. Thomas F. Fuller, Dr. Robert A. Mantz, Dr. Hui Xu, Christophe Coutanceau, Dr. Shigenori Mitsushima, Dr. Kelly A Perry, Prof. Sri Narayan, Pezhman Shirvanian, and Prof. Yong-Tae Kim)
 - **TENTATIVE K01 - Electrochemical and Coupled Interfacial Chemical Reactions Relevant to Stimulation and Measurements in Brain Tissue**
Organic and Biological Electrochemistry Physical and Analytical Electrochemistry
 (Dr. Mekki Bayachou, Dr. James D. Burgess, and Dr. Alice H. Suroviec)
 - **TENTATIVE K02 - Electron Transfer Activation in Organic and Bioorganic Systems: From Unraveling Electrode Mechanisms to Directing Synthesis of High-Value Products**
Organic and Biological Electrochemistry Physical and Analytical Electrochemistry
 - **TENTATIVE L01 - Physical and Analytical Electrochemistry, Electrocatalysis, and Photoelectrochemistry General Session**
Physical and Analytical Electrochemistry

- (Dr. Alice H. Suroviec and Dr. Andrew C. Hillier)
- **TENTATIVE L02 - Molten Salts and Ionic Liquids 21**
Physical and Analytical Electrochemistry
(Prof. Paul Chappell Trulove and Dr. Robert A. Mantz)
- **TENTATIVE L03 - Electrode Processes 11**
Physical and Analytical Electrochemistry Battery
(Dr. Andrew C. Hillier, Dr. Andrew C. Hillier, and Prof. Jie Xiao)
- **TENTATIVE L04 - Photocatalysts, Photoelectrochemical Cells and Solar Fuels 9**
Energy Technology Physical and Analytical Electrochemistry Sensor
(Dr. Nianqiang Wu, Dr. Pawel J. Kulesza, Jae-Joon Lee, Dr. Eric L. Miller, Dr. Vaidyanathan Ravi Subramanian, Tetsu Tatsuma, and Heli Wang)
- **TENTATIVE L05 - Electroactive and Redox Active Polymers 2**
Physical and Analytical Electrochemistry
(Dr. Junhua Jiang and Prof. Andy M. Herring)
- **TENTATIVE L06 - Chemically Modified Electrodes**
Physical and Analytical Electrochemistry Organic and Biological Electrochemistry
(Dr. Alice H. Suroviec and Dr. David E. Cliffel)
- **TENTATIVE M01 - Chemical Sensors 14: Chemical and Biological Sensors and Analytical Systems**
Sensor Organic and Biological Electrochemistry Physical and Analytical Electrochemistry
(Alexsandr Simonian, Prof. Dr. Raluca I. Van Staden, Petr Vanysek, Dr. Sushanta Mitra, Dr. Mekki Bayachou, Dr. Rangachary Mukundan, Pengyu Chen, and Dr. Alice H. Suroviec)
- **TENTATIVE M02 - Wearable Sensors and Systems 1 –and Microfabricated and Nanofabricated Systems for MEMS/NEMS 14**
Sensor Organic and Biological Electrochemistry Physical and Analytical Electrochemistry
(Ajit Kholsa, Dr. Sheikh Ali Akbar, Dr. Jessica Koehne, Prof. Dr. Peter J. Hesketh, Dr. Milad Navaei, Dr. Praveen Kumar Sekhar, Dong Joo Kim, Dr. Jin-Woo Choi, Dr. Shelley D. Minter, P. Vanysek, and Prof. Paul Chappell Trulove)

235th ECS Meeting, May 26-31, 2019, Dallas, TX

So far only tentative symposia by PAED:

Electrode Processes 11 (*is the number correct?*)

Physical and Analytical Electrochemistry

(Dr. Andrew C. Hillier)

**Impedance Technologies, Diagnostics, and Sensing Applications
Physical and Analytical Electrochemistry
(P. Vanysek and P. Vanysek)**

**Physical and Analytical Electrochemistry, Electrocatalysis, and
Photoelectrochemistry General Session and Grahame Award
Symposium
Physical and Analytical Electrochemistry
(Dr. Alice H. Suroviec)**

**Polyoxometallates and Nanostructured Metal Oxides in Efficient
Electrocatalysis, Energy Conversion and Charge Storage
Physical and Analytical Electrochemistry
(Pawel J. Kulesza, Prof. Andy M. Herring, Vito Di Noto, and Iwona
A. Rutkowska)**

**Supramolecular Materials
Physical and Analytical Electrochemistry
(Dr. Hugh C. De Long and Dr. Robert A. Mantz)**

**Systems Electrochemistry II
Physical and Analytical Electrochemistry
(Dr. Istvan Zalan Kiss)**

**Next PAED Luncheon (or reception) will be held
during the 233rd ECS Spring Meeting in Seattle, WA
(May, 2018).**

Treasurer's Report PAED 2016
Estimated Statement of Division Income and Expenses –
Year Ended 2016

Total Income: \$25,581

Dues = \$6,976, Symposium Support = \$3,000

Total Expenses: \$12,364

Travel grants \$2,750, Symposia support = \$3,500,
Registration waivers \$ 2,555.

Balance (December 31, 2016): \$46,412

Students and Young Faculty Awards

PAED Travel Award Winners for the 231st ECS Meeting in New Orleans (May 2017)

Young Professionals:

- Early Career: Yong Yan - Ahmedabad University
- Post Doc: Subhasis Roy - Ohio University

Students:

- Erin Gawron - Georgia Tech, Atlanta
 - Fan Wu - Queen Mary University, London
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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.

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.

Upcoming ECS meetings

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