

**2012/2013 Division & Class Report
to the
ACerS Board of Directors**

Division/Class: Electronics Division

Current Division/Class Officers:

Chair: Quanxi Jia
Chair-Elect: Steven C. Tidrow
Vice-chair: Timothy J. Haugan
Secretary: Haiyan Wang
Secretary-Elect: Geoffrey L. Brennecka
Trustee: Dwight D. Viehland

Incoming Division Officers:

Chair: Steven C. Tidrow
Chair-Elect: Timothy J. Haugan
Vice-chair: Haiyan Wang
Secretary: Geoffrey L. Brennecka
Secretary-Elect: Brady J. Gibbons
Trustee: Winnie Wong-Ng

Summary of Meetings and Activities Held/To Be Held (from Oct. 2012 through Oct. 2013):

- 1) ED executive committee meeting, Pittsburgh, PA, Oct. 7, 2012
- 2) General ED business meeting, Pittsburgh, PA, Oct. 8, 2012
- 3) ED executive committee meeting, Orlando, FL, Jan. 23, 2013
- 4) ED executive committee meeting to be held at MS&T'13, Montreal, Canada, Oct. 27, 2013
- 5) General ED business meeting to be held at MS&T'13, Montreal, Canada, Oct. 28, 2013

Future Planned Meetings/Activities (from Nov. 2013 – October 2014):

- 1) ED executive committee meeting at EMA 2014, Orlando, FL, Jan. 2014
- 2) ED executive committee meeting to be held at MS&T'14, Pittsburgh, PA, Oct., 2014
- 3) General ED business meeting to be held at MS&T'14, Pittsburgh, PA, Oct., 2014

New Initiatives/Opportunities:

The 4th Annual Electronic Materials and Applications conference (EMA 2013) held jointly with Basic Science Division in Orlando, FL from January 23 to 25, 2013. We have set several records this time: we have a record number of attendees (over 250) from 25 countries, we received a record number of abstracts (257), and we have a record number of symposia (16) offering a record number of parallel sessions.

The symposia are:

S1: Functional and Multifunctional Electroceramics for Energy Storage, Conversion, and Harvesting, Detectors, Sensors, Frequency Agile Components, Packaging, Interconnects and Other Commercial Opportunities

S2: Multiferroic Materials and Multilayer Ferroic Heterostructures: Properties and Applications

- S3: Structure of Emerging Perovskite Oxides: Bridging Length Scales and Unifying Experiment and Theory
- S4: LEDs and Photovoltaics—Beyond the Light: Common Challenges and Opportunities
- S5: Structure and Properties of Interfaces in Electronic Materials
- S6: Thermoelectrics: Defect Chemistry, Doping and Nanoscale Effects
- S7: Production Quality Ferroelectric Thin Films and Devices
- S8: Advances in Memory Devices
- S9: Thin Film Integration and Processing Science
- S10: Ceramic Composites for Defense Applications
- S11: Sustainable, Low Critical Material Use and Green Materials Processing Technologies
- S12: Recent Developments in High Temperature Superconductivity
- S13: Body Energy Harvesting for Intelligent Systems
- S14: Nanoscale Electronic Materials and Devices
- S15: Failure: The Greatest Teacher
- S16: Highlights of Student Research in Basic Science and Electronic Ceramics

To encourage participation from students, ED has changed the student awards program. For example, ED has started to select second and third place oral and poster awards: Second place student awards receive \$150 and a certificate at the EMA, and Third place student awards receive \$100 and a certificate at the EMA.

Action Items for ACerS Board Consideration at October 26, 2013 meeting: none

Issues/Concerns: none

Additional Items of Note: none

Financial Statement: attached

Submitted By: Quanxi Jia