



**2016/2017 Division & Class Report
to the
ACerS Board of Directors**

Division/Class: Electronics Division

Current Division/Class Officers: (complete as appropriate for your Division or Class)

Chair: **Geoff Brennecka**
Chair-Elect: **Brady Gibbons**
Vice-chair: **Rick Ubic**
Secretary: **Jon Ihlefeld**
Secretary-Elect: **Alp Sehirlioglu**
Trustee: **Steven Tidrow**
PCSA Representative: **Fred Marlton**

Incoming Division Officers: (complete as appropriate for your Division or Class)

Note: most Divisions change officers at the ACerS Annual Meeting in October (MS&T). If your Division changes officers at another time, please indicate when incoming officers will begin their terms: _____N/A_____

Chair: **Brady Gibbons**
Chair-Elect: **Rick Ubic**
Vice-chair: **Jon Ihlefeld**
Secretary: **Alp Sehirlioglu**
Secretary-Elect: **Hui (Claire) Xiong**
Trustee: **Steven Tidrow**
PCSA Representative: TBD at MS&T

Summary of Meetings and Activities Held/To Be Held (from Oct. 2016 through Oct. 2017):

- 1) ED Executive Committee Meeting held at MS&T16, Salt Lake City, UT, Oct. 23, 2016
- 2) ED General Business Meeting held at MS&T16, Salt Lake City, UT, Oct. 24, 2016
- 3) ED Executive Committee Meeting at EMA 2017, Orlando FL, Jan. 18, 2017
- 4) ED Executive Committee Meeting to be held at MS&T17, Pittsburgh, PA, Oct. 2017
- 5) ED General Business Meeting to be held at MS&T17, Pittsburgh, PA, Oct. 2017

Future Planned Meetings/Activities (from Nov. 2017 – October 2018):

- 1) ED Executive Committee Meeting at EAM 2018, Orlando, FL, Jan. 17, 2017
- 2) ED Executive Committee Meeting at MS&T18, Columbus, OH, Oct. 2018
- 3) ED General Business Meeting at MS&T18, Columbus, OH, Oct. 2018

New Initiatives/Opportunities:

Current membership is 805. The Electronics Division continues to focus on increased student and young professional engagement in division activities by providing both direct support and volunteer opportunities within a reinvigorated committee structure (in particular, we have young professionals leading our Member Engagement, History, Publications, and Outreach committees). Parallel efforts to engage industry members have been less successful, but remain a priority.

Action Items for ACerS Board Consideration at October 7, 2017 meeting:

N/A

Issues/Concerns:

N/A

Additional Items of Note:

1) EMA → EAM

EMA 2017 was very successful with just shy of 400 abstracts and attendees as well as continuing the tradition of strong positive feedback from participants. At the EMA 2017 meeting, it was decided that the name of the meeting would change to Electronic and Advanced Materials (EAM) in recognition of the increased role played by BSD organizers and participants. Organization of this meeting is well underway.

The EAM 2018 meeting will have 13 symposia sponsored by EDiv and 5 sponsored by BSD. Abstract submission is open until September 6th, 2017. Meeting organizers from EDiv include Brady Gibbons, Jon Ihlefeld, and Rick Ubic. Wayne Kaplan and John Blendell are the organizers from BSD. Plenary speakers include Judith Driscoll from the University of Cambridge and Roger de Souza from Aachen University. The meeting continues to strongly and actively support student and young professional participants.

2) Awards

Nicholas Trainor of Drexel University won the Hoffman Scholarship for his essay on “Electronic Properties in Two-Dimensional Ceramics”. The purpose of the \$2000 tuition award is to encourage academic interest and excellence among undergraduate students in the area of ceramics/materials science and engineering.

The Edward C. Henry Award was given to the article “Cold Sintering Process: A Novel Technique for Low-Temperature Ceramic Processing of Ferroelectrics” written by Hanzheng Guo, Amanda Baker, Jing Guo, and Clive A. Randall (J. Am. Ceram. Soc., 99 [11] 3489–3507 (2016) DOI:

10.1111/jace.14554). This paper was chosen for the originality of the research, superb scientific quality, and the impact it is likely to create in the near and long term for a wide range of materials and applications - including the ferroelectric examples given – by providing a new very low temperature processing technique to control microstructure and composition.

Financial Statement: (Including year-end summary of expenditures from the Division's Funds)

Attached

Submitted By: Geoff Brennecka on behalf of the Electronics Division