

**2013/2014 Division & Class Report
to the
ACerS Board of Directors**

Division/Class: Basic Science Division

Current Division/Class Officers: (2013-2014)

Chair: Wayne D. Kaplan
Chair-Elect: Eduardo Saiz
Vice-chair: Bryan Huey
Secretary: Shen Dillon
Secretary-Elect: Xingbo Liu

Counselor: Helen M. Chan
Counselor: Scott Misture
Counselor: Jian Luo

Program Chairs for MS&T 2014 EMA 2015: Shen Dillon, Xingbo Liu
Program Chairs for MS&T 2015 EMA 2016: John Blendell, Dominique Chatain
Program Chairs for MS&T 2016 EMA 2017: TBA

Incoming Division Officers: (2014-2015)

Chair: Eduardo Saiz
Chair-Elect: Bryan Huey
Vice-chair: Shen Dillon
Secretary: Xingbo Liu

Counselor: Scott Misture
Counselor: Jian Luo
Counselor: Wayne D. Kaplan

Summary of Meetings and Activities Held (from Oct. 2013 through Oct. 2014):

MS&T'13: Materials Science & Technology 2013, October 27-31, 2013, Montreal, Quebec, Canada including several symposia organized by BSD, the Ceramographics Competition, the GEMS graduate student award (coordinated by John Blendell) and the Sosman award ceremony and lecture (given to Prof. Nava Setter). A "Young Professional Mixer" was held during the conference to gather new BSD recruits.

EMA'14: Electronic Materials & Applications 2014, January 22-24, 2014, Orlando, Florida. George Rossetti was the BSD representative on the organizing committee, and BSD (John Blendell) ran both a dedicated symposium on interfaces (supported by BSD), and an evening tutorial (given by D. Chatain and W.D. Kaplan) on atomistic structure and thermodynamics of interfaces on the evening before the symposium.

Significant financial support to the Gordon Conference on Ceramics, July 20-25, 2014, Mount Holyoke College, South Hadley, MA focusing on Challenges Around Transport and Reactivity in Ceramics. The conference was chaired by Monika Backhaus-Ricoult.

MS&T'14: Materials Science & Technology 2014, October 12-16, 2014, Pittsburgh, including several symposia organized by BSD, the GEMS graduate student award (coordinated by John Blendell), the Ceramographics Competition, and the Sosman Lecture and Ceremony (to be given this year to Robert Cook).

Future Planned Meetings/Activities (from Nov. 2014 – October 2015):

EMA'15: Electronic Materials & Applications 2015, January 21-23, 2015, Orlando, Florida. Shen Dillon will be the BSD representative on the organizing committee, and BSD (J. Blendell, W.D. Kaplan, C. Handwerker, and R.E. García) will run both a dedicated symposium on Thin Films and Interfaces: Stability, Stress Relaxation, and Properties (supported by BSD), and an evening tutorial (given by Carl Thompson, Massachusetts Institute of Technology, and Gerhard Dehm, Max-Planck-Institut für Eisenforschung GmbH, Germany) on atomistic structure and thermodynamics of interfaces on the evening before the symposium.

MS&T'15: Materials Science & Technology 2015, October 4-8, 2015, Columbus, including several symposia organized by BSD, the GEMS graduate student award (coordinated by John Blendell), the Ceramographics Competition, and the Sosman Lecture and Ceremony (to be given to Yuichi Ikuhara). The Sosman Lecture will be a full symposium based around invited speakers and Ikuhara.

New Initiatives/Opportunities:

BSD is pushing its members for more active participation in EMA, and thus the emphasis on attractive symposia and the tutorials. This year BSD invested more funds in supporting symposia at MS&T, and more importantly at EMA. We hope to continue this investment, but probably in the direction of EMA (see comments below).

BSD would like to actively participate in the *Ceramic and Glass Industry Foundation* to help ensure its success.

Action Items for ACerS Board Consideration at October 11, 2014 meeting:

Issues/Concerns:

In order to attract and retain committed program organizers, funds should be made available for assisting those organizers with their own registration fees, and absolutely to help them invite top speakers to their symposia. The meeting needs far more organization in terms of minimizing symposium overlap, and would benefit from clustering general topics by location (it's often a challenge to get from one talk to another on a similar topic that is held far away in the convention site).

BSD has held "Young Professional Mixers" at past MS&T conferences to promote enrollment in BSD. We are no longer convinced this is the best method, and are evaluating additional options, such as extended registration support for young faculty, to expose potential BSD members to BSD activities.

Submitted By: Wayne D. Kaplan

