



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

Division/Class: Basic Science Division

Current Division/Class Officers (2012-2013):

Chair: Jian Luo
Chair-Elect: Wayne Kaplan
Vice-chair: Eduardo Saiz
Secretary: Bryan Huey
Secretary-Elect: Shen Dillon

Counselor: Keith Bowman
Counselor: Helen M. Chan
Counselor: Scott Misture

Program Chairs for MS&T 2012: Karren More, George Rossetti
Program Chairs for MS&T 2013: Shen Dillon, Xingbo Liu
Program Chairs for MS&T 2014: John Blendell, Dominique Chatain
Program Chairs for MS&T 2014: Jay Kruzic, Julian Jones

Incoming Division Officers (2013-2014):

Chair: Wayne Kaplan
Chair-Elect: Eduardo Saiz
Vice-chair: Bryan Huey
Secretary: Shen Dillon

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

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

MS&T'12: Materials Science & Technology Conference and Exhibition, October 7-11, 2012
Pittsburgh, PA, USA.

BSD organized or co-organized ~10 symposia. In addition, BSD sponsored a networking dinner for assistant professors at an off-site location. The networking dinner was successful.

GEMS Awards: BSD support: \$1,171 = \$1,000 (\$100/awardee * 10) + \$171(poster)

Sosman Award Symposium: \$1,493

Electronic Materials and Applications (EMA) 2013, Orlando, FL, January 23-25, 2013.

Organizing Committee: Quanxi Jia (ED), Bryan Huey (BSD) & Tim Haugan (ED)

Financial contribution from BSD: \$4,189 (including \$788 pre-payment from the 2012 budget and \$3,401 from 2013 budget)

The 2013 Electronic Materials and Applications 2013 conference was the largest yet, with more than 250 talks and posters presented during the 3-day meeting and many BSD organized sessions.

10th Pacific Rim Conference on Ceramic and Glass Technology, San Diego, CA, June 2-7, 2013

Several symposia were organized by BSD members; BSD did not provide direct financial support.

Future Planned Meetings/Activities (from Oct. 2013 to October 2014):

Using X-rays to Analyze Cultural Heritage: (AACCS Division Workshop), SLAC National Accelerator Laboratory and the Cantor Center for the Visual Arts at Stanford University, Stanford, California USA (near San Francisco), Oct 1-2, 2013

Financial contribution from BSD: BSD plans to co-sponsor this Workshop, as its topic is of interest to BSD. BSD agrees to provide \$2,000 to support invited senior speakers and students.

MS&T'13: Materials Science & Technology Conference and Exhibition, The Palais des congrès de Montréal, Montréal, Québec Canada, October 27-31, 2013

BSD members are organizing or co-organizing ~10 symposia.

BSD planned activities and financial support at MST 2013:

GEMS Awards: \$1,000 (\$100/awardee * 10) + cost for poster

Sosman Award Symposium: Registration for the awardee and 2 banquet tickets

International Symposium on Defects, Transport and Related Phenomena: BSD will provide \$1,000

Mixer for Ceramic Young Faculty Members & Professionals: BSD will host a mixer and social event for young faculty members and professionals in the ceramics field at MS&T'13 in Montreal on Tuesday, October 29, 2013 at ~6:30pm. One goal of this activity is to introduce ACerS Basic Science Division to new junior faculty members in ceramics related fields or researchers at similar career stages in the industry or national labs. We will discuss the opportunities for junior ceramic researchers to organize or participate in symposia related to the ceramic basics science and/or serve as BSD officers in future.

Electronic Materials and Applications (EMA) 2014 will be held in Orlando, FL, January 22-24, 2014. BSD again will co-organize the meeting with the Electronics Division. BSD will also organize new tutorials (John Blendell is leading). BSD anticipates providing some significant support to EMA 2014.

2014 Gordon Research Conference on Solid State Studies in Ceramics: Challenges around Transport and Reactivity in Ceramics, will be held in Mount Holyoke College, South Hadley, MA July 20-25, 2014. Chair: Monika Backhaus-Ricoult; Vice Chair: Michael J. Hoffmann. BSD anticipates providing some support to GRC 2014.

New Initiatives/Opportunities:

- (1) BSD plans to further expand our efforts and basic ceramic science-related symposia and activities at EMA meetings; BSD hopes to grow the EMA and establish the EMA as the primary meeting of interest to BSD members.
- (2) BSD is planning to discuss and potentially implement a policy to provide support to symposium organizers at MST and other BSD sponsored conferences.
- (3) BSD is interested in continuing to recruit and support young ceramic professionals via various initiatives, e.g., the Mixer for Ceramic Young Faculty Members & Young Professionals and our GEMS awards

Action Items for ACerS Board Consideration at October 2013 meeting: no formal action items

Issues/Concerns:

As noted in our last annual report, the BSD community continues to have concerns over the back-to-back ICACC and EMA meetings, with some competing symposia or sessions. We encourage the Board to consider alternatives to the back-to-back meeting organization that will still provide a forum for each division to have freedom in organizing the meetings. The BSD leadership is more than happy to discuss alternatives, for example combining the meetings to a single meeting. Ultimately, we aim to provide an outstanding meeting in the winter months that will draw an international group of BSD members.

Additional Items of Note: None

Financial Statement: attached

Submitted By: Jian Luo