



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

Division/Class: Cements Division

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

Chair: **Aleksandra Radlińska**
Chair-Elect: **Matthew D'Ambrosia**
President:
President-Elect
Vice-chair:
Vice-President:
Secretary: **David Corr**
Secretary-Elect:
Secretary/Treasurer:
Treasurer:
Trustee: **Maria Juenger**
Parliamentarian:
Counselor:
Counselor:

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: _____

Chair: **Matthew D'Ambrosia**
Chair-Elect: **David Corr**
President:
President-Elect
Vice-chair:
Vice-President:
Secretary: **Denise Silva**
Secretary-Elect:
Secretary/Treasurer:
Treasurer:
Trustee: **Maria Juenger**
Parliamentarian:
Counselor:
Counselor:

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

The ACerS Cements Division held their 8th Advances in Cements-Based Materials meeting June 26-28, at Georgia Institute of Technology in Atlanta, Georgia. Past division chair Tyler Ley and Kimberly Kurtis served as chairs of the conference. Highlights included a Student and Young Professional Showcase, poster session, Della Roy Lecture and a new 2 concurrent session format.

Monday's technical sessions and the Student and Young Professional Showcases were followed by an evening poster session. The session provided the opportunity for more than 20 students to present their research and to generate active discussions. This annual event encourages networking among young professionals, students and researchers.

There were 2 concurrent sessions on Durability and Novel and Sustainable Materials; the new format was successful. The Business Meeting preceding the Della Roy Lecture, encouraged meeting suggestions and comments from the attendees. Past Division Chair, Tyler Ley, provided updates on the Cements Division including ACerS supplemental funding usage, incoming division leadership and he announced the poster winners from the Monday session. This year's YouTube Research Video contest winner was Marisol Tsui Chang of Oregon State University which highlighted her poster, "Using XRF to Assess the Composition and Resistivity of Simulated Pore Solutions" inspired video entries for 2018.

The Brunauer Best Paper Award is presented to the best refereed paper on cements published during the previous calendar year in the *Bulletin* or the *Journal of the American Ceramic Society*. Paulo Monteiro, was presented the Brunauer certificate for his contribution to the 2016 winning paper: *Soft X-ray Ptychographic Imaging and Morphological Quantification of Calcium Silicate Hydrates (C-S-H)* *Journal of the American Ceramic Society*; (2015) authored by Sungchul Bae, Rae Taylor, David Shapiro, Peter Denes, John Joseph, Rich Celestre, Stefano Marchesini, Howard Padmore, Tolek Tyliczszak, Tony Warwick, David Kilcoyne, Pierre Levitz and Paulo J. M. Monteiro.

Paulo Monteiro of University of California, Berkeley, also presented the Della Roy Lecture, "Characterization of Cementitious Materials Using X-Ray Synchrotron Radiation: What we know, what we don't know, and what we want to know". In his lecture, he summarized the highlights and pitfalls of using this powerful characterization technique. His presentation also described new results on understanding catalytic reactions using in-situ XPS, linking the chemical and mechanical properties of calcium (aluminosilicate) hydrate using HP-XRD, and characterizing the early hydration with high-resolution spectromicroscopy.

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

9th Advances in Cement Based Materials will be held June 2018 at Penn State in State College, PA. Past division chair Aleksandra Radlinska will serve as chair of the conference.

New Initiatives/Opportunities:

The Cements Division continues to engage social media to market the division and its conferences. Youtube contests have been part of the last two conferences.

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

None at this time

Issues/Concerns:

Cements division continues its goal of involving industry in its conferences and leadership, and would welcome assistance from ACerS in this endeavor.

Additional Items of Note:

The division maintains a strong membership, currently at 241. Attendance at conferences also has been strong in recent years, with each of the last two years over 100 members in attendance.

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

Attached.

Submitted By: David Corr