



**2014/2015 Division & Class Report
to the
ACerS Board of Directors**

Division/Class: Cements

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

Chair: Jeffrey Chen
Chair-Elect: Tyler Ley
Secretary: Aleksandra Radlinska
Trustee: Joe Biernacki
Program Chair: Kyle Riding
Program Co-Chair: Matt D'Ambrosia

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

Chair: Tyler Ley
Chair-Elect: Aleksandra Radlinska
Secretary: Matt D'Ambrosia
Trustee: Maria Juenger
Program Chair: Jeffery Chen
Program Co-Chair: Matt D'Ambrosia

Summary of Meetings and Activities Held/To Be Held (from Oct. 2014 through Oct. 2015):

The 6th Advances in Cement-based Materials was hosted on July 20-22, 2015 at Kansas State University in Manhattan, KS.

The meeting had 86 attendees (of which 47 were students), 51 oral presentations, and 28 posters. The Division currently has 201 registered members.

As has been done in previous meetings, the program opened on July 20th with a focus on a special topic/tutorial. The focus was lifecycle cost analysis and concrete durability modeling. The lectures were given by prominent experts from industry, including Jacques Marchand (Simco), Gianluca Cusatis (Northwestern), Nick Santero (PE International, Inc). These talks provided a practical perspective of the topic and was appreciated by our attendees. A portion of the travel costs for Nick Santero was covered by supplemental ACerS funds.

The following technical sessions were presented:

- Cement chemistry and nano/microstructure
- Advances in material characterization techniques
- Alternative cementitious materials
- Durability and lifecycle modeling
- Advances in computation material science and chemo/mechanical modeling of cement based materials
- Smart materials and sensors
- Rheology and Advances in self-consolidating concrete

There were two Keynote Lectures on the program from Claire White of Princeton and Dimetri Feys from Missouri S&T. Both were not previously members of ACerS. We hope to add both of them to our Division. The registration for both of these speakers was paid for with supplemental money supplied by ACerS.

The Della Roy Lecture was scheduled to be given by Dr. Hamlin Jennings. Unfortunately, Dr. Jennings passed away a week before the meeting. Instead a video (<https://youtu.be/7xJ54akpako>) was made by his former students. This video was an outstanding tribute to him as it covered his accomplishments, great stories, and gave people great insight.

Six student poster awards were awarded. The amount of the poster awards was increased with supplemental money supplied by ACerS.

During the Cements Division meeting, Prof. Maria Juenger (University of Texas at Austin) and Dr. Jeffrey Thomas (Schlumberger) were recognized for having been honored as ACerS Fellows. Prof. Juenger and Dr. Thomas represented 2 of the 16 new Fellows awarded in 2015.

A video was shot at the conference by Kansas State University. The crew shot video and stills for an entire day. They also completed interviews with students, industry, and academic attendees. All of this footage will be combined into a short (30 second) and longer (three to five minute) advertisement for the meeting. The editing should be finished for the video by the first week of September. After approving the videos they will be sent to ACerS for review. After all groups approve the videos then they will be used to create interest for the next meeting and for membership in the Cements division. The money for this video was provided through supplemental money from ACerS.

Future Planned Meetings/Activities (from Nov. 2015 – October 2016):

The 7th Advances in Cement-based Materials will take place in July 2016 (date to be decided) at Northwestern University, in Evanston, IL.

New Initiatives/Opportunities:

The Cements Division will continue to try and raise interest in the annual meetings by including more Keynote speakers. Also, there was a plan to commit to raising interest in the upcoming meeting by industry. Currently, the industry attendees is a very small percentage of the meeting attendance. We have discussed having several industry round tables to try and raise questions about the cement industry and try and spark interest in these challenges.

There was also much discussion about modifying the meeting format. Some of the suggested changes include: moving the featured speakers from the tutorial to other sessions. This would allow several featured presentations to be made during the conference. We feel this would help sustain excitement and interest at the meeting. We also think it will also give us an opportunity to promote the presentations from more high profile speakers.

Another initiative that the Division is exploring is the use of video and social media both before and during the conference. For example, one idea that was proposed during the meeting was the use of short videos to allow attendees to “advertise” their poster or talk with a three minute YouTube video. These videos could be used to give the conference attendees a preview of their work that they plan

on presenting at the meeting. Furthermore, by posting the videos on YouTube, we would also encourage comments and discussions before the meeting to more actively engage the Cements community. The leadership is already looking at using some of their poster prize money and putting it towards the prizes for the top videos.

Action Items for ACerS Board Consideration at October 3, 2015 meeting:
None

Issues/Concerns: none

Additional Items of Note: none

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

Submitted By: Tyler Ley and Jeff Chen

SAVE THIS FORM, ATTACH IT TO AN E-MAIL, AND SEND TO MSTOUT@CERAMICS.ORG
WITH THE SUBJECT HEADING OF "xxx DIVISION ANNUAL REPORT"