

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

Division/Class: Cements

Current Division/Class Officers:

Chair: Kyle Riding
Chair-Elect: Jeffrey Chen
Secretary: Tyler Ley
Trustee: Joe Biernacki
Program Co-Chair: Benjamin Mohr
Program Co-Chair: Joe Biernacki

Incoming Division Officers:

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

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

The 5th Advances in Cement-based Materials was hosted on July 9-11, 2014 at the Tennessee Technological University in Cookeville, TN.

In terms of figures, the meeting had 80 attendees (of which 47 were students), 39 oral presentations, and 18 posters. The Division currently has 190 registered members.

As has been done in previous meetings, the program opened on July 9th with a focus on a special topic/tutorial. This year there were 2 invited lectures from Oak Ridge National Labs, the first giving an overview of the ORNL facilities, the second on cement-related research for nuclear applications.

On July 10th, the technical program opened and was organized in 8 sessions.

- Admixtures (2 sessions)
- Alternative cementitious materials
- Characterization
- Durability and lifecycle modeling
- Hydration (2 sessions)
- Mechanics

The Della Roy Lecture was given by Dr. Ellis Gartner, Scientific Director (Chemistry) for Lafarge Central Research, France. His talk was entitled, "40 Years a Cement Scientist—can this be sustainable?"

The Brunauer Award was awarded to Dr. Jeffrey Thomas of Schlumberger-Doll Research for his paper, "The Instantaneous Apparent Activation Energy of Cement Hydration Measured Using a Novel Calorimetry-Based Method," J. Am. Ceram. Soc. **95** [10] 3291–3296 (2012).

Six student poster awards were awarded.

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

The 6th Advances in Cement-based Materials will take place in July 2015 (date to be decided) at Kansas State University in Manhattan, Kansas.

New Initiatives/Opportunities:

The past meeting showed a notable dip in attendance. Compared to the 80 attendees in 2014, the meeting had 105, 100, 107, and 96 attendees in 2013, 2012, 2011, and 2010, respectively. To address this decline in attendees (especially non-student researchers), we have planned the following actions:

- **Increase number of invited talks.** We have currently budgeted \$1000 for next year's meeting to dedicate for invited speakers.
- **Increase international and industrial presence.** To diversify the experts at the meeting, we will aim to attract people outside the U.S., as well as from industry.
- **Advertise program early.** We are aiming for early Q4 2014 to make a first communication.

Issues/Concerns: None

Financial Statement: attached

Submitted By: Jeffrey Chen