

Oregon State University

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As Oregon's largest public research university, with a record \$273 million in research funding in 2009-10. Oregon State's impact reaches across the state and beyond with 12 colleges, 15 Agricultural Experiment Stations, 35 county Extension offices, the Hatfield Marine Sciences Center in Newport and OSU-Cascades Campus in Bend, Oregon. Learn more about Oregon State and Corvallis at: <http://www.oregonstate.edu>



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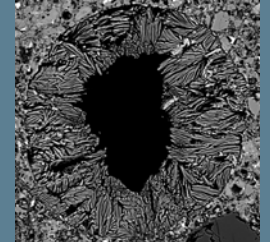
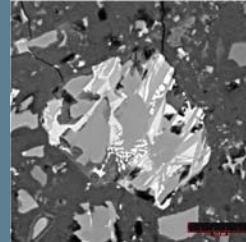
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Visit us online at:

<http://web.engr.oregonstate.edu/~idekerj/expcem>

Expansive Reactions in Cement-Based Materials

July 27-29, 2011— Corvallis, Oregon, USA



Conference Organizers

Dr. Jason H. Ideker

Oregon State University, Corvallis, Oregon, USA

Dr. Karen L. Scrivener

École Polytechnic Fédérale de Lausanne -EPFL, Lausanne, Switzerland

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Workshop Overview

The goal of this workshop is to stimulate discussions related to expansive behavior in cement-based materials.

While much is understood about the outward manifestations of expansive reactions, still questions remain about why many of these reactions result in expansion and damage to concrete materials. The format of the workshop will be five (5) sessions where three relatively brief technical talks related to the theme will present new theories, explanations, observations and controversial findings to foster discussion among participants. Speakers are encouraged to keep their talks brief, yet engaging. At the end of the technical talks approximately 30-45 minutes will be devoted to discussion. A poster session will allow participants to showcase latest research results and findings which will further enhance the interactive nature of this workshop.

Themes

- expansive cements
- expansive additives
- swelling mechanisms
- degradation from swelling
- expansion with and without deterioration
- uncontrolled expansion
- modeling expansive
- reactions
- mechanical aspects
- early-age autogenous expansion
- alkali-silica reaction
- delayed ettringite formation
- sulfate attack

Important Dates

Poster Abstracts Due:	March 15, 2011
Abstract Acceptance Notification:	March 31, 2011
Early Registration Deadline:	May 15, 2011
Regular Registration Deadline:	June 15, 2011

Fees

	Early	Regular
Industry	\$450	\$550
Academia	\$350	\$450
Graduate Student	\$200	\$300

Registration can be completed online at the workshop website: <http://web.engr.oregonstate.edu/~idekerj/expcem> -or- by calling Mrs. Nancy Brickman at: 541-737-4273 [Visa and Mastercard accepted].

Registration Fees include all meals on the schedule, coffee breaks and snacks.

Accommodation information can be found on the workshop website.

Tentative Schedule

Wednesday July 27, 2011

3:00 pm	Registration Opens
5:00 pm	Welcome
5:30 pm	Poster Session/ Heavy Hors d'oeuvres



Thursday July 28, 2011

7:30-8:30 am	Registration
8:30-10:00	Session 1 – Early-Age Volume Change, Expansive Additives
10:00-10:30	Coffee Break (Posters on Display)
10:30-12 pm	Session 2 - Internal Sulfate Attack, Including Over Sulfation
12:00-1:00	Group Lunch
1:00-2:30	Session 3 – External Sulfate Attack, Salt Crystallization
3:00-6:30	Group Hike to Mary's Peak (transportation provided)
7:00	Group Dinner at Tyee Vineyards (transportation provided)

Friday July 29, 2011

8:30-10:00 am	Session 4 – Mechanism of ASR Expansion
10:00-10:30	Coffee Break (Posters on Display)
10:30-12 pm	Session 5 – Expansion Mechanisms, Mechanical Aspects
12:00-1:00	Group Lunch
1:00-2:00	Wrap-up, Perspectives, CCR Papers, Poster Awards
2:00	Adjourn

Confirmed Presenters: Mr. Charles Alt, Dr. Laurent Barcelo, Dr. Cyrille Dunant, Dr. Doug Hooton, Dr. Jason H. Ideker, Dr. Barbara Lothenbach, Dr. Claudia Ostertag, Dr. Gaurav Sant, Dr. Karen Scrivener, Dr. Michael Thomas, Mr. Cheng Yu

Conference Outcomes and Awards: It is intended to write up several keynote papers from the workshop for publication in Cement and Concrete Research. Authors decided after workshop.

Award(s) will be given for the best poster(s) at the workshop.