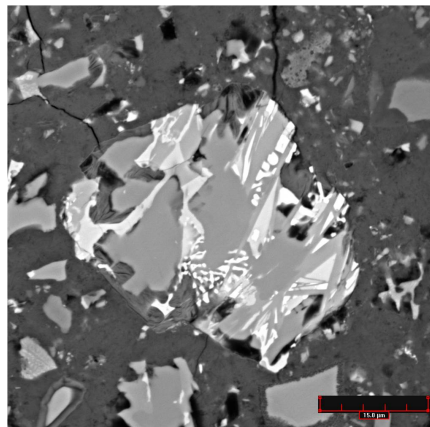


# The Corvallis Workshops

Innovative Characterization Tools to Assess Performance of Cement-Based Materials

July 15-18, 2014

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College of Engineering



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

To stimulate vigorous discussion and foster innovation in the ways we characterize and predict performance of cement-based materials.  
Dr. Jason H. Ideker — Dr. Anthony F. Bentivegna — Dr. Karen L. Scrivener

**Oregon State**  
UNIVERSITY

**Tuesday, July 15th**

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5:00-7:00pm **Registration and Welcome Reception** (CH2M HILL Alumni Center Foyer and Library)

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ALL Talks and Poster Sessions will be held at the **CH2M HILL Alumni Center**

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Wednesday Night Reception - **The VUE, Downtown, Corvallis**

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Thursday Hike - **Mary's Peak, just west of Corvallis**

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Thursday Night Dinner - **TYEE VINEYARDS, Just South of Corvallis**

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**Transportation will be provided to and from The VUE, Group Hike and Tyee Winery Reception**

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## The Corvallis Workshops On Site Details

Bus Transportation – We’re going old school, literally with the good ole yellow buses labeled “First Student”:

### Wednesday, 7/16

5:30pm	Depart OSU Alumni Center
5:40pm	Drop off at Holiday Inn Express
5:50pm	Depart Hilton Garden Inn
6:00pm	Arrive at Vue – Valley Catering
8:00pm	Depart Vue
8:10pm	Drop off at Holiday Inn Express
8:20pm	Drop off at Hilton Garden Inn

### Thursday, 7/17

1:30pm	Depart OSU Alumni Center
2:15pm	Arrive Mary’s Peak
4:15pm	Depart Mary’s Peak – <b>leave coolers on bus</b>
5:00pm	Drop off at Hilton Garden Inn
5:15pm	Drop off at Holiday Inn Express
5:30pm	Pick up at Hilton Garden Inn –
5:45pm	Pick up at Holiday Inn Express
6:15 pm	Arrive at Tyee Winery
8:00pm	1 <sup>st</sup> Return to Holiday Inn Express or Hilton Garden Inn – IF NEEDED
9:00pm	Depart from Tyee Winery

Wednesday July 16th			
Session 1A: Hydration and Microstructural Development			
Session Moderator: Maria Juenger			
8:30-8:40	Jason Ideker	Welcome and Overview	Oregon State University
8:40-9:05	Ellis Gartner	<i>Pycnometric Methods for the Assessment of Degree of Hydration</i>	Lafarge
9:10-9:35	John Popovics	<i>Ultrasonic reflection monitoring of early hydration processes</i>	University of Illinois
9:40-10:05	Aleksandra Radlinska	<i>Shrinkage in Alkali-Activated Slag Mortars Dried under Various RH Conditions</i>	Pennsylvania State University
10:10-10:25	Discussion		
10:25-10:45	Coffee Break - Posters on Display		
Session 1B: Microstructural Development			
Session Moderator: Anthony Bentivegna			
10:45-11:10	Passarin Jongvisuttisun	<i>XPS and NMR Characterization of Early-age Interaction Between Natural Fiber and Cements: Implications on Tailoring Fibers for Crack Mitigation</i>	Georgia Institute of Technology
11:15-11:40	April Snyder	<i>Automated Scanning Electron Microscopy (SEM) Methods for Cement Characterization</i>	RJ Lee Group
11:45-12:10	Shao Hongyu	<i>Innovative Pore Structure Characterization Method for Cement-based materials using non-contact Impedance Measurement</i>	Hong Kong Univ. of Science and Technology
12:15-12:30	Discussion		
12:30-2:00	Lunch		
Session 2A: Assessing Potential for Deterioration			
Session Moderator: Thomas Schumacher			
2:00-2:25	Lassaad Mhamdi	<i>Quantitative Acoustic Emission Techniques for Monitoring of Fracture Processes in Concrete</i>	University of Delaware
2:30-2:55	Fred Aguayo	<i>An Accelerated Test Method for Evaluating the Performance of Various Mixtures Susceptible to Chemical Sulfate Attack</i>	University of Texas
3:00-3:25	Farshad Rajibipour	<i>Dilution and Gelation of Silica in Alkaline Media and the Effect of Calcium</i>	Pennsylvania State University
3:30-3:45	Discussion		
3:45-4:15	Coffee Break - Posters on Display		
Session 2B: Assessing Potential for Deterioration			
Session Moderator: Thano Drimalas			
4:15-4:40	Julia Maresca	<i>Bacterial Bio-indicators of Alkali-silica Reaction in Concrete</i>	University of Delaware
4:45-5:10	Owen Killeen and Margaret Kimble	<i>Ultra Rapid ASR Screening</i>	Univ of Alabama/Univ of Wyoming
5:15-5:30	Discussion		
6:00-9:00	Cocktail Reception at The Vue		

Thursday July 17th			
Session 3A: NDE for Early Age			
Session Moderator: John Popovics			

8:30-8:55	Mohammad Pour-Ghaz	<i>Advanced Sensing Skins for Damage Detection in Concrete Elements</i>	North Carolina State University
9:00-9:25	Patrice Rivard	<i>Nonlinear Acoustics for Early Detection of Damage in Concrete</i>	University of Sherbrooke
9:30-9:55	Pouria Ghods	<i>Electrical Resistivity Method as a Powerful Non-destructive Technique for Fast and Accurate Assessment of Concrete Durability</i>	Giatec
10:00-10:15	Discussion		
10:15-10:45	Coffee Break - Posters on Display		

Session 3B: NDE in the Field			
Session Moderator: Eric Giannini			

10:45-11:10	Jon Feld	<i>Industry-Leading Strategies to Develop Thermal Control Plans in Mass Concrete</i>	CTL Group
11:15-11:40	Roberto Torrent	<i>Carbonation and Service-life Assessment made Using On-site Air Permeability Tests</i>	Private Consultant
11:45-12:10	O. Burkan Isgor	<i>Current Challenges and Future Direction in the Measurement of Corrosion in Reinforced Concrete Structures</i>	Oregon State University
12:15-12:30	Discussion		
12:30-1:30	Lunch		
1:30-5:30	Group Hike		

5:30 - 9:30	<b>Group Dinner at Tyee Vineyards</b>
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Transportation will be provided to/from both hotels to Tyee. For those on the hike transportation will be provided back to your respective hotels so that you can change/freshen up before dinner.

Friday July 18th			
Session 4A: Assessment of Deterioration in the Field			
Session Moderator: Aleksandra Radlinska			
9:00-9:25	Nathan Mayercsik	<i>A Probabilistic Technique for Entrained Air Void Analysis in Hardened Concrete</i>	Georgia Institute of Technology
9:30-9:55	Thano Drimalas	<i>Assessing Alkali-Silica Reactivity in the Field Based on Outdoor Exposure Sites</i>	University of Texas
10:00-10:25	Thomas Schumacher	<i>Estimation of In-Situ Stresses in Concrete Using Polarized Shear Waves</i>	University of Delaware
10:30-10:45	Discussion		
10:45-11:30	Workshop Wrap Up, CCR Papers		
11:30-1:00	Lunch		