

# Jason H. Ideker, Ph.D.

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## Professional Experience

2008-present     Assistant Professor, School of Civil and Construction Engineering  
Oregon State University

2008  
*May-Aug.*         The University of Texas at Austin  
Post-Doctoral Fellow

2004-2008        Ph.D., The University of Texas at Austin  
*Early-Age Behavior of Calcium Aluminate Cement Systems*

2002-2004        M.S.E., The University of Texas at Austin  
Departmental Report: *Toward Accurate Test Methods to Assess Alkali-Silica Reaction in Concrete*

1998-2000        Engineering Aide, Cooperative Employment through the Georgia Institute of Technology  
*Willmer Engineering, Inc.* Atlanta, Georgia

## Education

2008  
*May-Aug.*         The University of Texas at Austin  
Post-Doctoral Fellow, Advisor: Kevin J. Folliard

2004-2008        The University of Texas at Austin  
Ph.D. Civil Engineering  
Advisors: Kevin J. Folliard & Michael D.A. Thomas (University of New Brunswick)

2006  
*Apr-Aug*          École Polytechnic Fédérale de Lausanne (EPFL), Lausanne, Switzerland  
Visiting Ph.D. Candidate  
Advisors: Kevin J. Folliard and Karen L. Scrivener (EPFL)

2002-2004        The University of Texas at Austin  
M.S.E., Advisors: Kevin J. Folliard & Maria C.G. Juenger

1997-2002        Georgia Institute of Technology  
B.S.C.E., High Honors, Advisor: Kimberly E. Kurtis

## Honors and Awards

2007                Finalist for ACI Wason Medal for Materials Research Award for paper:  
Thomas, M.D.A., Fournier, B., Folliard, K.J., Shehata, M., Ideker, J.H., and Rogers, C.,  
“Performance Limits for Evaluating Supplementary Cementing Materials Using the Accelerated  
Mortar Bar Test,” *ACI Materials Journal*, 104 [2] March 2007, pp. 115-122.

- 2007 William S. Livingston Continuing Education Fellowship (\$20K for 9 months)
- 2004 PCI Engineering Design Competition - Big Beam Contest, Zone 2 First Place, Overall 2<sup>nd</sup> Place  
The University of Texas at Austin, *Team:* Justin Norvell, Vanna Oberholz, Andrew Maas, Nathan Dickerson, Brandon McBee, Peter Ruth, Jeff Carlson and Jason Ideker, *Advisor:* Dr. Oguzhan Bayrak, *PCI Producer:* Coreslab Structures (Texas), Inc., Cedar Park, Texas (Byron Freeby and Bill Doughty)
- 2003 Portland Cement Association Education Foundation Fellowship (\$20K for 1 year)  
*Examination of the Effects of Temperature on Progression of Alkali Silica Reaction Using an Accelerated Temperature ASTM C 1293 Test*
- 2002 John A. Focht Endowed Presidential Graduate Scholarship in Civil Engineering (\$3K)

## Professional Memberships

Member, ASTM International

Voting Member, Committee C09 – Concrete and Concrete Aggregates, since 2009

Voting Member, Committee C01 – Cement, since 2009

Member, American Concrete Institute

Associate Member Committee on Durability of Concrete (ACI 201), since 2003

Voting Member Committee on Material Science of Concrete (ACI 236), since 2008

TAC Awards Group Subcommittee I (SC1) - ACI Construction Award, 2009

Member, American Society of Civil Engineers, since 2000

## Teaching Experience

- 2009 Assistant Professor, CE 526: Advanced Concrete Materials, Oregon State University
- 2008-present Advisor, ASCE Concrete Canoe Team, Oregon State University
- 2008 Assistant Professor, CE 321: Civil Engineering Materials, Oregon State University
- 2007 Teaching Assistant, Concrete Materials (Undergraduate Course), The University of Texas at Austin
- 2007 Undergraduate Mentor, ASCE Concrete Canoe Team, The University of Texas at Austin
- 2006 Teaching Assistant (Grader), Advanced Concrete Materials (Graduate Course), The University of Texas at Austin
- 2003-2005 Teaching Assistant, Concrete Materials (Undergraduate Course), The University of Texas at Austin
- 2003-2005 ACBM/PCA Faculty Workshop, Portland Cement Association (PCA), Skokie, IL  
“How to Teach Basic Concrete Concepts to Undergraduates”

## Students Advised

### Doctoral Students

- 2009-present Shweta Keshari, Dr. Todd Scholz – Main Advisor, Dr. Jason H. Ideker – Minor Advisor, Oregon State University
- 2009-present Anthony F. Bentivegna, *Early-Age Volume Change in Calcium Aluminate Cement Concrete*, Co-advisor Kevin J. Folliard, The University of Texas at Austin

### Master’s Students

- 2009-present Tyler Deboodt, *Internal Curing of High Performance Concrete Bridge Decks*, Oregon State University
- 2009 Scott Ureel, *Internal Curing of High Performance Concrete Bridge Decks*, Oregon State University
- 2009-present Arnaud Thibonnier, *Early-Age Volume Change in Calcium Aluminate Cement Concrete*, Co-advisor Kevin J. Folliard, The University of Texas at Austin
- 2009-present Tengfei Fu, Master’s Thesis, *Autogenous Deformation and Internal Curing of HPC Concrete*, Oregon State University
- 2008-present Kelsea Schwing, *Technologies and Methodologies to Prevent Concrete Deterioration from Alkali-Silica Reaction*, Oregon State University

## Undergraduate Students

- 2009-Present Chuck Williams, Oregon State University  
2009-Present Brian Gray, Oregon State University  
2009-Present Marc Putman, Oregon State University  
2007-2008 Evan R. Wehrle, The University of Texas at Austin, *Drying Shrinkage and Autogenous Deformation of Calcium Aluminate Cement Systems*  
2006 Racheal D. Lute, The University of Texas at Austin, *Chemical and Autogenous Shrinkage of Calcium Aluminate Cement Concrete*  
2004 Alda P. Villanueva, The University of Texas at Austin, *Methods to Assess the Impact Resistance of ASR Affected Concrete*

## Research Projects

### Oregon State University

- 2009 Kiewit Center for Infrastructure and Transportation, “Construction Processes and Materials Mapping for Sustainability Assessments,” John Gambatese (PI), PI, Jason H. Ideker (Co-PI)  
2009-2010 NAVFAC ESC, “Technologies and Methodologies to Prevent Concrete Deterioration from Alkali-Silica Reaction – Phase II,” Jason H. Ideker (PI, Oregon State University)  
2009-2010 Oregon Transportation, Research and Education Consortium (OTREC), Durability Assessment of Recycled Concrete Aggregates for use in New Concrete, Jason H. Ideker (PI, Oregon State University, Jennifer E. Tanner (Co-PI, The University of Wyoming)  
2009-2010 Oregon BEST, Green Building Materials Laboratory, Scott A. Ashford, (PI, Oregon State University), Jason H. Ideker and Fred Kamke, (Co-PIs, Oregon State University)  
2009-present Northwest Transportation Consortium (NWTC), “Climate Change Impact Assessment for Surface Transportation in the Pacific Northwest and Alaska,” John MacArthur (PI, Portland State University), Research Team: Philip Mote (Oregon Climate Change Research Institute, Oregon University System), Ming Lee (University of Alaska Fairbanks), Miguel Figliozzi, (Portland State University), Jason H. Ideker (Oregon State University)  
2009-present Oregon Department of Transportation (ODOT), “Internal Curing of Concrete Bridge Decks,” Jason H. Ideker (PI, Oregon State University)  
2009-present Kerneos Aluminate Technologies, “Early-Age Volume Change in Calcium Aluminate Cement Concrete,” Kevin J. Folliard (PI, The University of Texas at Austin), Jason H. Ideker Consultant, unfunded research  
2008-2009 NAVFAC ESC, “Technologies and Methodologies to Prevent Concrete Deterioration from Alkali-Silica Reaction – Phase I,” Jason H. Ideker (PI, Oregon State University)

### The University of Texas at Austin (Graduate Studies)

- 2006-2008 FHWA, “Alkali-Silica Reactivity (ASR) Development and Deployment Program,” Kevin J. Folliard (Co-PI, The University of Texas at Austin) Michael D.A. Thomas (Co-PI, University of New Brunswick), Benoit Fournier (Co-PI, CANMET)  
2004-2008 FHWA, “Lithium Implementation Project for ASR Affected Concrete,” Michael D.A. Thomas (PI, University of New Brunswick)  
2004-2008 Kerneos Aluminate Technologies (formerly Lafarge Calcium Aluminates), “Early Age Properties of Calcium Aluminate Cement Concrete,” Kevin J. Folliard (PI, The University of Texas at Austin)  
2003-2008 PCA Education Fellowship, “Examination of the Effects of Temperature on Progression of Alkali Silica Reaction Using an Accelerated Temperature ASTM C 1293 Test,” Kevin J. Folliard (Advisor, The University of Texas at Austin)  
2006-2007 “DMJM Aviation Denver Airport ASR Phase II,” Kevin J. Folliard (Co-PI, The University of Texas at Austin) Michael D.A. Thomas (Co-PI, University of New Brunswick)  
2005-2006 “DMJM Aviation Denver Airport ASR Best Practices,” Kevin J. Folliard (Co-PI, The University of Texas at Austin) Michael D.A. Thomas (Co-PI, University of New Brunswick)  
2003-2004 Unfunded Research, “The Role of Silica Fume Agglomerates in ASR,” Maria C.G. Juenger (Advisor, The University of Texas at Austin)

- 2002-2005 International Center for Aggregate Research (ICAR), "Verification and Implementation of Improved ASR Test and Mitigation Methods," ICAR 302, Kevin J. Folliard (PI, The University of Texas at Austin)
- 2002-2005 Texas Department of Transportation, "Preventing Premature Concrete Deterioration due to ASR/DEF in New Concrete," TxDOT 0-4085, Kevin J. Folliard (PI, The University of Texas at Austin)

### **Georgia Institute of Technology (Undergraduate Studies)**

- 2001-2002 NSF POWRE Award CMS-0074874, "Examination of the Mechanisms of Alkali-Silica Reaction Gel Expansion Control by Lithium Additives in Concrete," Kimberly E. Kurtis (PI, Georgia Institute of Technology)

### **Other Funded Research**

- 2005-2006 Investigation into Lithium Nitrate Dosage in Fresh Concrete used at the Atlanta Hartsfield-Jackson International Airport, Kevin J. Folliard (PI, The University of Texas at Austin)

### **Publications**

#### **Peer-Reviewed Journal Articles**

Ideker, J.H., East, B.L., Folliard, K.J., Fournier, B. and Thomas, M.D.A., "The Current State of the Accelerated Concrete Prism Test", *accepted to Cement and Concrete Research August 2009*.

Fournier, B., Ideker, J. H., Folliard, K. J., Thomas, M. D. A., Nkinamubanzi, P.-C., and Chevrier, R., "Effect of environmental conditions on expansion in concrete due to alkali-silica reaction (ASR)." *Materials Characterization*, 60 [7], July, 2009, pp. 669-679.

Thomas, M.D.A., Fournier, B., Folliard, K.J., Shehata, M., Ideker, J.H., and Rogers, C., "Performance Limits for Evaluating Supplementary Cementing Materials Using the Accelerated Mortar Bar Test," *ACI Materials Journal*, 104 [2] March 2007, pp. 115-122.

Maas, A.J., Ideker, J.H., Juenger, M.C.G., "Alkali Silica Reactivity of Agglomerated Silica Fume," *Cement and Concrete Research*, 37 [2], February 2007, pp. 166-174.

Thomas, M.D.A., Fournier, B., Folliard, K.J., Ideker, J.H., Shehata, M., "Test Methods for Evaluating Preventive Measures for Controlling Expansion due to Alkali-Silica Reaction in Concrete," *Cement and Concrete Research*, 36 [10] October 2006, pp. 1842-1856.

Yildirim, Y., Ideker, J., Hazlett, D., "Evaluation of Viscosity Values for Mixing and Compaction Temperature," *Journal of Materials in Civil Engineering*, 18 [4] August 2006, pp. 545-553.

Collins, C.L., Ideker, J.H., Kurtis, K.E., "Laser Scanning Confocal Microscopy for In-Situ Monitoring of Alkali-Silica Reaction," *Journal of Microscopy*, 213 [2] February 2004, pp. 149-157.

Collins, C.L., Ideker, J.H., Kurtis, K.E., "Examination of the Effects of LiOH, LiCl, and LiNO<sub>3</sub> on Alkali-Silica Reaction," *Cement and Concrete Research*, 34 [8] August 2004, pp. 1403-1415.

#### **Research Reports and Technical Documents**

Thomas, M.D.A., Fournier, B., Folliard, K.J., Ideker J.H. and Resendez Y., "The Use of Lithium To Prevent or Mitigate Alkali-Silica Reaction in Concrete Pavements and Structures," Publication No. FHWA-HRT-06-133, Federal Highway Administration, U.S. Department of Transportation, September 2006.

Folliard, K.J., Thomas, M.D.A., Fournier, B., Kurtis K.E., and Ideker J.H., "Interim Recommendations for the Use of Lithium to Mitigate or Prevent Alkali-Silica Reaction (ASR)," Publication No. FHWA-RD-06-073, Federal Highway Administration, U.S. Department of Transportation, July 2006.

Folliard, K., Barborak, R., Drimalas, T., Du, L., Garber, S., Ideker J., Ley, T., Williams, S., Juenger, M., Fournier, B., and Thomas, M.D.A., "Preventing ASR/DEF in New Concrete: Final Report," Report No. FHWA/TX-06/0-4085-5, June 2006.

Thomas, M.D.A., Fournier, B., Folliard, K.J., Ideker, J.H., Rogers, C., Shehata, M., "Performance Limits for Evaluating Supplementary Cementing Materials using the Accelerated Mortar Bar Test," *PCA R&D Serial No. 2892*, Portland Cement Association, Skokie, Illinois 2005.

### **Other Publications**

Juenger, M.C.G., Maas, A.J., and J.H. Ideker, "Alkali silica reactivity of silica fume agglomerates," Transport Properties and Concrete Quality, *Materials Science of Concrete, Special Volume*, Mobasher, B. and Skalny, J.P., Eds., The American Ceramic Society, Westerville, OH, pp. 19-23, 2007.

### **Referred Conference Proceedings**

Folliard, K.J., Thomas, M.D.A., Fournier, B., Ideker, J.H., and East, B.L., "Treatment of Structures with Alkali-Silica Reactive Distress with Lithium Nitrate: Case Studies," *Proceedings of the 88<sup>th</sup> Annual Transportation Research Board Meeting*, Washington D.C., USA, January 2009.

Ideker, J.H., Folliard, K.J., and Thomas, M.D.A., "Evaluating Early-Age Properties of Calcium Aluminate Cement Concrete with Rigid Cracking and Free Shrinkage Frames: Isothermal Testing," *Calcium Aluminate Cements 2008: The Centenary Conference*, Avignon, France, June 30 – July 2, 2008, pp. 141-157.

Ideker, J.H., East, B.L., Folliard, K.J., Thomas, M.D.A and Fournier, B., "The Current State of the Accelerated Concrete Prism Test," In: Broekmans, M.A.T.M. and Wigum, B.J. (eds): *Proceedings of the 13<sup>th</sup> International Conference on Alkali-Aggregate Reaction*, Trondheim, Norway, June 16-19, 2008, pp. 140-150.

Folliard, K.J., Thomas, M.D.A., Ideker, J.H., East, B.L., and Fournier, B., "Case Studies of ASR-Affected Structures with Lithium Nitrate," In: Broekmans, M.A.T.M. and Wigum, B.J. (eds): *Proceedings of the 13<sup>th</sup> International Conference on Alkali-Aggregate Reaction*, Trondheim, Norway, June 16-19, 2008, pp. 90-99.

Fournier, B., Ideker, J.H., Folliard, K.J., and Thomas, M.D.A., "Effect of Environmental Conditions on Expansion in Concrete Due to Alkali-Silica Reaction (ASR)," In: Broekmans, M.A.T.M. and Wigum, B.J. (eds): *Proceedings of the 13<sup>th</sup> International Conference on Alkali-Aggregate Reaction*, Trondheim, Norway, June 16-19, 2008, pp. 658-667.

Folliard, K.J., Ideker, J.H., Barborak, R.C., Fournier, B., and Thomas, M.D.A., "Laboratory Test Methods for Determining Dosage of Lithium Nitrate Required to Control Alkali-Silica Reaction Induced Expansion," *Proceedings of the 86<sup>th</sup> Annual Transportation Research Board Meeting*, Washington D.C., USA, January 2007.

Juenger, M.C.G., Maas, A.M., Ideker, J.H., "Effect of Silica Fume Agglomerates on Expansion due to ASR," *Proceedings of the International Conference on Advances in Concrete Composites and Structures*, Chennai, India, January 2005, pp. 43-50.

Ideker, J.H., Folliard, K.J., Juenger, M.G., Thomas, M.D.A., "Laboratory and Field Testing Experience with ASR in Texas, USA," *Proceedings of the 12<sup>th</sup> International Conference on Alkali-Aggregate Reaction in Concrete*, Beijing, China, October 2004, pp.1062-1069.

Fournier, B., Chevrier, R., De Grosbois, M., Lisella, R., Folliard, K., Ideker, J., Shehata, M., Thomas, M., Baxter, S., "The Accelerated Concrete Prism Test (60°C): Variability of the Test Method and Proposed Expansion Limits," *Proceedings of the 12<sup>th</sup> International Conference on Alkali-Aggregate Reaction in Concrete*, Beijing, China, October 2004, pp. 314-337.

Ideker, J.H., Juenger, M.C.G., Ostertag, C.P., "The Participation of Silica Fume Agglomerates in ASR Expansion," *Proceedings of Advances in Cement and Concrete IX: Volume Changes, Cracking, and Durability*, Copper Mountain, Colorado, August 2003, pp. 377-382.

### **Non-Referred Conference Proceedings**

Ideker, J.H., Folliard, K.J., Fournier, B. and Thomas, M.D.A., "The Role of "Non-reactive" Aggregates in the Accelerated (60 C) Concrete Prism Test," *Proceedings of the Marc-Andre Berube Symposium on Alkali-Aggregate Reactivity in Concrete at the Eighth CANMET/ACI International Conference on Recent Advances in Concrete Technology*, Montreal, Canada, June 2006, pp. 45-70.

Fournier, B., Nkinamubanzi, P.C., Lu, D, Thomas, M.D.A., Folliard, K.J. and Ideker, J.H., "Evaluating Potential Alkali-reactivity of Concrete Aggregates, How Reliable are the Current and New Test Methods?," *Proceedings of the Marc-Andre Berube Symposium on Alkali-Aggregate Reactivity in Concrete at the Eighth CANMET/ACI International Conference on Recent Advances in Concrete Technology*, Montreal, Canada, June 2006, pp. 21-43.

Folliard, K.J., Barborak, R.C., Ideker, J.H., Fournier, B., Thomas, M.D.A., "Laboratory Test Methods for Determining the Dosage of Lithium Nitrate Required to Control ASR-Induced Expansion," *Proceedings of the Marc-Andre Berube Symposium on Alkali-Aggregate Reactivity in Concrete at the Eighth CANMET/ACI International Conference on Recent Advances in Concrete Technology*, Montreal, Canada, June 2006, pp. 153-169.

Juenger, M.C.G, Ideker, J.H., Ostertag, C.P. "Do Silica Fume Agglomerates Cause ASR-Related Expansion?," *Supplementary papers of the Eighth CANMET/ACI International Conference on Fly Ash, Silica Fume, and Natural Pozzolans in Concrete*, Las Vegas, Nevada, May 2004, pp. 317-325.

Folliard, K.J., Ideker, J., Thomas, M.D.A, Fournier, B., "Assessing Aggregate Reactivity Using the Accelerated Concrete Prism Test," *Supplementary Papers of the Seventh CANMET/ACI International Conference on Recent Advances in Concrete Technology*, Las Vegas, Nevada, May 2004, pp. 269-284.

### **Works in Progress**

Ideker, J.H., Folliard, K.J., Juenger, M.C.G. and Bentivegna, A.F., "Toward Accurate Test Methods to Assess Alkali-Silica Reaction in Concrete," currently in review for submission to *ACI Materials Journal*.

Ideker, J.H., "Calcium Aluminate Cement Concrete: Historical, Present and Future Applications", currently in progress for submission to *Concrete International*.

Ideker, J.H., Riding, K.A., Folliard, K.J. and Thomas, M.D.A., "Early-Age Properties of Calcium Aluminate Cement Systems in Rigid Cracking and Free Deformation Frames: Isothermal Testing," currently in review for submission to *Cement and Concrete Research*.

### **Presentations**

#### **Invited Presentations**

"Oregon State University-Green Building Materials Lab," BEST FEST 2009, Portland State University, Portland, Oregon, September 14, 2009

"Workshop: The Nuts and Bolts of Green Infrastructure," OTREC Summit, Portland State University, Portland, Oregon, September 11, 2009

"Test Methods to Detect Alkali-Silica Reaction and Determine Efficacy of Mitigation Methods," ACI Alkali-Aggregate Reaction Seminar, ACI Colombia Chapter, Bogota, Colombia, April 2009.

"Measuring Autogenous Deformation of Innovative Cementitious Materials," *American Concrete Institute (ACI) Spring Convention 2008*, Session: Early-Age Test Methods for Performance Specifications, San Antonio, Texas, April 2009

“Early-Age Characterization of Calcium Aluminate Cement Systems,” EPFL Seminar, Leysin, Switzerland, January 13-16, 2009.

“Calcium Aluminate Cement Systems: Durability Aspects,” EPFL Seminar, Leysin, Switzerland, January 13-16, 2009.

“Linking Microstructural Development to Early-Age Volume Change in Calcium Aluminate Cement Concrete,” *American Concrete Institute (ACI) Spring Convention 2008*, Session: Multi-Scale Descriptions of Concrete Performance, March 29-April 3, 2008.

“CAC Basics and Early-Age Volume Change,” *American Concrete Institute (ACI) Fall Convention 2007*, Session: Open Paper, Puerto Rico, October 14-18, 2007.

“Classroom and Laboratory Demonstrations for Undergraduate Civil Engineering Courses,” *American Concrete Institute (ACI) Spring Convention 2007*, Session: Toys for Teaching, Atlanta, Georgia, March 21-25, 2007.

“Test Methods to Assess the Ability of Supplementary Cementing Materials to Mitigate ASR Induced Expansion,” *Advances in Cement and Concrete X: Sustainability*, Davos, Switzerland, July 2-7, 2006.

“Examination of the Effects of Temperature on Progression of Alkali Silica Reaction Using an Accelerated Temperature ASTM C 1293 Test,” *PCA Fall Meeting – Education Foundation Fellowship Presentation*, Chicago, Illinois, 2005.

“ICAR Project 302 Update,” *International Center for Aggregate Research (ICAR) Symposium*, Austin, Texas, April 2005.

“Laboratory and Field Experience with ASR in Texas, USA,” *Structures Seminar – The University of Texas at Austin*, Austin, Texas, November 2004.

“Alkali Silica Reaction Research at UT Austin”, *ACI Central Texas Chapter Monthly Meeting*, Austin, Texas, August, 2004.

### **Conference Presentations**

“Evaluating Early-Age Properties of Calcium Aluminate Cement Concrete with Rigid Cracking and Free Shrinkage Frames: Isothermal Testing,” *Calcium Aluminate Cements 2008: The Centenary Conference*, Avignon, France, June 30 – July 2, 2008.

“The Current State of the Accelerated Concrete Prism Test,” *13<sup>th</sup> International Conference on Alkali-Aggregate Reaction*, Trondheim, Norway, June 16-19, 2008.

“The Role of “Non-reactive” Aggregates in the Accelerated (60 C) Concrete Prism Test,” *Marc-Andre Berube Symposium on Alkali-Aggregate Reactivity in Concrete at the Eight CANMET/ACI International Conference on Recent Advances in Concrete Technology*, Montreal, Canada, 2006.

“ASR in Texas, USA Laboratory and Field Experience,” *12<sup>th</sup> International Conference on Alkali-Aggregate Reaction in Concrete*, Beijing, China, October 2004.

### **Poster Presentations**

Folliard K.J., Barborak, R.C., Ideker, J.H., Fournier, B., Thomas, M.D.A., and Tremblay, C. “Laboratory Test Methods for Determining the Dosage of Lithium Nitrate Required to Control Alkali-Silica Reaction Induced Expansion,” *Proceedings of the 86<sup>th</sup> Annual Transportation Research Board Meeting*, Washington D.C., USA, January 2007.

Ideker, J.H., Juenger, M.C.G. and Ostertag, C.P., "The Participation of Silica Fume Agglomerates in ASR Expansion," *Advances in Cement and Concrete IX: Volume Changes, Cracking, and Durability*, Copper Mountain, Colorado, August 2003.

### **Journal Reviewer**

Journal of Bridge Engineering (2008-Present)  
Journal of Material Science (2008-Present)  
ICAAR 2008 (International Conference on Alkali-Aggregate Reactivity), Trondheim, Norway  
Member of the International Board of Reviewers (2007-2008)  
Cement and Concrete Research (2006-Present)  
ASCE Journal of Materials in Civil Engineering (2006-Present)  
Materials and Structures (2007-Present)  
ACI Materials Journal (2005-Present)

### **Conference/Meeting Organization**

ACI 2010 American Concrete Institute Spring Convention, Full Day Session on: "Advances in the Material Science of Concrete" Chicago, Illinois  
Organizing Co-Chair and Co-Editor of Special Proceedings of this ACI Session  
Co-Chair and Co-Editor: Aleksandra Radlinska, Assistant Professor, Villanova University

ICAAR 2012 (International Conference on Alkali-Aggregate Reactivity), Austin, Texas, USA  
Member of the Organizing Committee

### **Service**

2008-Present    CCE Marketing Committee, Oregon State University