Benjamin J. Mohr
Associate Professor
Department of Civil and Environmental Engineering
Tennessee Technological University
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Professional Experience

Tennessee Technological University, Department of Civil and Environmental Engineering, Cookeville, TN
Associate Professor — *August 2010 – present*
Assistant Professor — *August 2005 – July 2010*

- Research interests: nano/microstructure, chemistry, and durability of cement-based materials; fiber-reinforced cementitious composites; early-age behavior of cement and concrete; novel material characterization/analytical techniques

Georgia Institute of Technology, Atlanta, GA — *August 2001 – August 2005*
Graduate Research Assistant, School of Civil and Environmental Engineering

University of Delaware, Newark, DE — *August 1999 – May 2001*
Undergraduate Teaching Assistant, Department of Civil and Environmental Engineering

Education

Ph.D. in Civil Engineering; *Georgia Institute of Technology*, Atlanta, GA — *August 2005*
Major field: Civil Engineering with concentration in materials
Minor field: Materials Science and Engineering
Thesis topic: *Durability of Pulp Fiber-Cement Composites*
Advisor: Dr. Kimberly Kurtis

M.S. in Civil Engineering; *Georgia Institute of Technology*, Atlanta, GA — *August 2002*
Advisor: Dr. Kimberly Kurtis

B.S. in Civil Engineering; *University of Delaware*, Newark, DE — *May 2001*
Minors: Mathematics and Psychology

Teaching Experience

- ASCE ExCEEd Teaching Workshop Fellow – West Point, NY, July/August 2010

- CEE 3030: Civil Engineering Materials (with laboratory)
- CEE 4800: Geotechnical Engineering
- CEE 6300: Multi-Scale Analysis of Concrete
- CEE 7450: Advanced Topics in Concrete Durability (with laboratory)

- HON 4023 Special Problems: Examining Effects of External Sulfate Attack – Fall 2008
- CEE 4990 Special Problems: Concrete Canoe Design Project – Fall 2007-Spring 2008, Spring 2009
- CEE 6900 Special Problems: Functionally Graded Pavements – Fall 2009
- CEE 6900 Special Problems: Strength and Modulus of LWC – Spring 2010
- CEE 6980 Directed Studies: Fiber Reinforced Concrete/Engineered Cementitious Composites – Fall 2007
- CEE 6980 Directed Studies: Microstructural Analysis of ECC – Spring 2008
- CEE 7980 Directed Studies: Internal Curing – Fall 2008

Current Research Projects

- Nanoscale Characterization of Expansion Due to Delayed Ettringite Formation (PI)
  - National Science Foundation CMS-1030209, $299,943, September 2010 – August 2013

- Optimum Air Content Range (Plastic and Hardened) for TDOT Class D PCC (Co-PI)
  - Tennessee Department of Transportation, $130,000, September 2009 – December 2010
- Higher Volume Fly Ash PCC for Sustainability and Performance (Co-PI)
  - Tennessee Department of Transportation, $130,000, July 2010 – June 2012

- Development of Leachate Test for Identifying the Potential for DEF in Cement-Based Materials (PI)
  - Tennessee Teach Faculty Research Development Grant, $5000, August 2010 – May 2011

Completed Research Projects

- Transport Kinetics of Internal Curing Water in High Performance Concretes (PI)
  - National Science Foundation CMS-0556015, $220,767, August 2006 – July 2010
- Nanoscale Differences Between Early and Late Age Ettringite in Portland Cement-Based Materials (PI)
  - ORAU Ralph E. Powe Junior Faculty Enhancement Award, August 2007 – December 2008
- Long-Term Resistance of Fly Ash Concrete to Alkali-Silica Reaction (PI)
  - Tennessee Tech Faculty Research Initiation Grant, August 2007 – May 2008
- Rapid Repair of Highway and Airfield Pavements (Co-PI)
  - Federal Highway Administration (FHWA), April 2006 – March 2008
- Fractography of Fiber-Cement Composites via Laser Scanning Confocal Microscopy (PI)
  - Tennessee Tech Faculty Research Initiation Grant, August 2006 – May 2007

Completed Instructional Grants

- Hands-On Learning Civil Engineering Design Project (PI)
  - Tennessee Tech Quality Enhancement Plan; August 2007 – May 2008

Honors / Awards

- ASCE ExCEEd Teaching Workshop Fellow – West Point, NY, July/August 2010
- ORAU Ralph E. Powe Junior Faculty Enhancement Award, 2007-2008
- TTU Sigma Xi Research Award, 2007, for Mohr, B.J., Biernacki, J.J., Kurtis, K.E. "Microstructural and Chemical Effects of Wet/Dry Cycling on Pulp Fiber-Cement Composites." *Cement and Concrete Research*, 2006; 36(7): 1240-1251.
- ASEE Southeastern Section New Faculty Research Award, 2nd place, 2007
- Georgia Institute of Technology President's Fellow, 2002–2005
- Sigma Xi, The Scientific Research Society, 2006
- Tau Beta Pi, National Engineering Honor Society, 2000
- Chi Epsilon, National Civil Engineering Honor Society, 2000
- Certified Engineer-in-Training

Professional Affiliations

- American Concrete Institute (ACI)
  - Voting Member, ACI Committee 231, Properties of Concrete at Early Ages, 2006–
  - Voting Member, ACI Committee 236, Materials Science of Concrete, 2005–
  - Associate Member, ACI Committee 308, Curing Concrete, 2007–
  - Associate Member, ACI Committee 213, Lightweight Aggregate and Concrete, 2010–
- RILEM (International Union of Laboratories and Experts in Construction Materials, Systems and Structures)
  - Member, RILEM Committee TC196-ICC, Internal Curing of Concrete, 2006–2007
- American Ceramic Society (ACerS), Cements Division
  - Secretary, Cements Division, 2010-2011
- American Society of Civil Engineers (ASCE)
  - ASCE ExCEEd Teaching Workshop Fellow – West Point, NY, July/August 2010
  - Faculty advisor for TTU Chapter of American Society of Civil Engineers (ASCE), 2006–
    - Organized 2011 ASCE Southeast Student Conference at TTU

Professional Activities

- Faculty advisor for TTU Chapter of American Society of Civil Engineers (ASCE), 2006–
  - Organized 2011 ASCE Southeast Student Conference at TTU
- Secretary, American Ceramics Society, Cements Division, 2010–2011
- Tennessee Tech Undergraduate Research Committee member, 2007– 2009

- Session moderator – Novel Sensing Applications in Cement-Based Materials, ACerS Cements Division, July 2010
- Session co-chair – 3rd International Symposium on Nanotechnology in Construction, Nanostructure Characterization, June 2009
- Organizer and co-moderator – ACI convention session: Internal Curing of High Performance Concretes: Laboratory and Field Experiences, October 2007
- Panel moderator – CEAT Workshop on Moisture and Temperature Modeling for Concrete Pavements – Testing Methodologies, July 2007
- Co-organizer and presenter – Seminar for GAF Corporation, "Durability of Pulp Fiber-Cement Composites," August 2005

- Reviewer: ACI Concrete International, ACI-SP270 – Advances in the Material Science of Concrete, ACI SP-266 – Modeling as a Solution to Concrete Problems, ACI SP-256 – Internal Curing of High Performance Concretes: Laboratory and Field Experiences, ACI SP-241 – Concrete Heat Development: Monitoring, Prediction, and Management, ASCE Journal of Materials in Civil Engineering, Cement and Concrete Research, Journal of ASTM International

Graduate Research Assistants

- Steven Matheny, Summer 2009 – Fall 2010
  - M.S. Thesis: *Freeze-Thaw Durability of Internally Cured High Performance Lightweight Concrete*
  - Current Employer: US Army Corps of Engineers, Nashville, TN
- Lindsay Smith, Summer 2010 – Spring 2011
  - M.S. Thesis: *Nanoscale Characterization of Delayed Ettringite Formation*
- Joshua Ojo, Fall 2008 –
  - Ph.D. Dissertation: *Nanoscale Hydration and Percolation Effects of Internal Curing on High Performance Cement-Based Materials*

Completed Graduate Theses

- Charlie Thomason, Spring 2009 – Fall 2009
  - M.S. Thesis: *Development of High Performance Structural Lightweight Concrete*
  - Current Employer: US Army Corps of Engineers, Nashville, TN
- Avinash Veeresha, Spring 2007 – Summer 2008 (co-advised with Dr. George Buchanan)
  - M.S. Thesis: *Thermo-Mechanical Assisted Moisture Diffusion*
  - Current Employer: Ross-Bryan Associates, Nashville, TN
- Kristen Hood, Spring 2007 – Spring 2008
  - M.S. Thesis: *Experimental Analysis of Internal Curing Materials for the Mitigation of Autogenous Shrinkage in High Performance Cement-Based Materials*
  - Current Employer: Tennessee Valley Authority, Chattanooga, TN

Undergraduate Research Assistants

- Aaron Crowley, Summer 2010 –
- Daniel Keaton, Fall 2009 –
- Lindsay Smith, Spring 2007 – Spring 2010
- Emily Shrum, Fall 2008 – Spring 2009
- Charlie Thomason, Spring 2008 – Fall 2008
- Steven Matheny, Fall 2007 – Spring 2009
- Kristen Hood, Summer 2006 – Fall 2006
- Dustin Scruggs, Spring 2006 – Summer 2006

Patents

- Benjamin J. Mohr, Kimberly E. Kurtis, Hiroki Nanko. "Methods for Internally Curing Cement-Based Materials and Products Made Therefrom," US patent application #11/738,906 filed by Georgia Tech Research Corporation/Georgia Institute of Technology on April 23, 2007.

Proceedings Edited

- ACI SP-256CD – "Internal Curing of High Performance Concretes: Laboratory and Field Experiences", Mohr, B.J., Bentz, D.P., Eds., 2008.
  ISBN: 978-1-60560-724-5

Refereed Publications

1. Mohr, B.J., Hood, K.L. Factors Influencing Internal Curing Material Efficiency. Submitted to *Cement and Concrete Research*, August 2010.

2. Mohr, B.J., Hood, K.L. "Influence of Bleed Water Reabsorption on Cement Paste Autogenous Deformation." *Cement and Concrete Research*, 2010; 40(2):220-225.
   http://dx.doi.org/10.1016/j.cemconres.2009.10.014

3. Ojo, J.O., Mohr, B.J. "A Review of the Analysis of Cement Hydration Kinetics via ^{1}H Nuclear Magnetic Resonance." In: Proceedings of the *3rd International Symposium on Nanotechnology in Construction (NICOM3)*, Prague, Czech Republic, May 31-June 2, 2009, Eds. Bittnar, Z., Bartos, P.J.M., Nemecek, J., Smilauer, V., Zeman, J., 2009: 107-112.
   http://dx.doi.org/10.1007/978-3-642-00980-8_13

4. Mohr, B.J., Hood, K.L., Kurtis, K.E. "Mitigation of Alkali-Silica Expansion in Pulp Fiber Mortar Composites." *Cement and Concrete Composites*, 2009; 31(9):677-681.
   http://dx.doi.org/10.1016/j.cemconcomp.2009.06.006

5. Mohr, B.J., Biernacki, J.J., Kurtis, K.E. "Supplementary Cementitious Materials for Mitigating Kraft Pulp Fiber-Cement Composite Degradation." *Cement and Concrete Research*, 2007; 37(11): 1531-1543.
   http://dx.doi.org/10.1016/j.cemconres.2007.08.001

6. Mohr, B.J., Hood, K.L. "Internal Curing Water Movement in High Performance Cement-Based Materials." In: Proceedings of the *Material Science and Technology 2006 – Advances in Cement-Based Materials: Manufacture, Hydration, Admixture Interaction, Properties, and Degradation*, V. 4: Processing, 2006: 13-24.
   ISBN: 978-0-87339-646-2

7. Mohr, B.J., Hood, K.L., Buchanan, G.R. "Mitigation of Autogenous Shrinkage in Mortars: Analysis and Modeling of Water Migration and Comparison of Various Internal Curing Materials." In: Proceedings of the *International RILEM Conference on Volume Changes of Hardening Concrete: Testing and Mitigation*, Lyngby, Denmark, RILEM Proceedings PRO 52, Eds. Jensen, O.M., Lura, P., Kovler, K., 2006: 127-136.
   http://dx.doi.org/10.1617/2351580052.014

8. Mohr, B.J., Biernacki, J.J., Kurtis, K.E. "Microstructural and Chemical Effects of Wet/Dry Cycling on Pulp Fiber-Cement Composites." *Cement and Concrete Research*, 2006; 36(7): 1240-1251.
   http://dx.doi.org/10.1016/j.cemconres.2006.03.020

9. Mohr, B.J., Kurtis, K.E. "Fractography of Fiber-Cement Composites Via Laser Scanning Confocal Microscopy," *Proc. 16th European Conference on Fracture*, Measuring, Monitoring, and Modeling Concrete Properties: in Honor of Surendra P. Shah, Ed. M.S. Konsta-Gdoutos, Alexandroupolis, Greece, July 3-7, 2006, 503-508.
   http://dx.doi.org/10.1007/978-1-4020-5104-3_61

10. Mohr, B.J., Nanko, H., Kurtis, K.E. "Aligned Kraft Pulp Fiber Sheets for Reinforcing Mortar." *Cement and Concrete Composites*, 2006; 28(2): 161-172. http://dx.doi.org/10.1016/j.cemconcomp.2005.08.004

11. Mohr, B.J., Nanko, H., Kurtis, K.E. "Durability of Thermomechanical Pulp Fiber-Cement Composites to Wet/Dry Cycling." *Cement and Concrete Research*, 2005; 35(8): 1646-1649. http://dx.doi.org/10.1016/j.cemconres.2005.04.005

12. Mohr, B.J., Nanko, H., Kurtis, K.E. "Durability of Kraft Pulp Fiber-Cement Composites to Wet/Dry Cycling." *Cement and Concrete Composites* 2005; 27(4): 435-448. http://dx.doi.org/10.1016/j.cemconcomp.2004.07.006

13. Mohr, B.J., Premenko, L., Nanko, H., Kurtis, K.E. "Examination of Wood-Derived Powders and Fibers for Internal Curing of Cement-Based Materials." In: Proceedings of the *4th International Seminar on Self-Desiccation and Its Importance in Concrete Technology*, Eds. Persson, B., Bentz, D., Nilsson, L.O., 2005: 229-244. http://ciks.cbt.nist.gov/~bentz/Lund2005/TVBM-3126hp1.pdf

14. Justice, J.M, Kennison, L.H., Mohr, B.J., Beckwith, S., McCormick, L., Wiggins, B., Zhang, Z.Z., Kurtis, K.E. "Comparison of Two Metakaolins and Silica Fume Used as Supplementary Cementitious Materials." In: Proceedings of the *ACI 7th International Symposium on Utilization of High-Strength/High Performance Concrete*, SP-228, Detroit: American Concrete Institute, 2005: 213-235.

15. El-Ashkar, N.H., Mohr, B.J., Nanko, H., Kurtis, K.E. "Durability of Pulp Fiber-Cement Composites to Wet/Dry Cycling." In: Proceedings of the *International Conference on Advances in Building Technology*, Eds. Anson, M., Ko, J.M., Lam, E.S.S., 2002: 233-237. ISBN: 978-0-08-044100-9

In Preparation

1. Mohr, B.J., Nanko, H., Kurtis, K.E. "Wood Pulp Fibers for Controlling Shrinkage Cracking in Concrete." To be submitted to *Concrete International*.

2. Mohr, B.J. "High Fines Limestone Screenings for Reduction of Expansion Due to Alkali-Silica Reaction." To be submitted to *Cement and Concrete Research*.

3. Mohr, B.J., Hood, K.L. "Influence of Internal Curing on Hydration and Percolation." To be submitted to *Cement and Concrete Research*.

Non-Refereed Publications/Reports

1. Mohr, B.J., El-Ashkar, N.H., Kurtis, K.E. "Fiber-Cement Composites for Housing Construction: State-of-the-Art Review." In: Proceedings of the *NSF Housing Research Agenda Workshop*, February 12-14, 2004, Orlando, FL. Eds. Syal, M, Mullins, M., and Hastak, M. V. 2, 2004. http://www.pathnet.org/si.asp?id=1075

2. Mohr, B.J., Kurtis, K.E., Nanko, H. "PATHWAYS Innovation Grant Final Report: Investigation of Aligned Pulp Fiber Sheets as Reinforcement in Cement-Based Materials," May 2003.

Presentations (presenting author in bold)

1. Mohr, B.J., Guo, T., **Ojo, J.O.** "Early Prediction of Concrete Durability Using Broadband Time-Domain Reflectometry Dielectric Spectroscopy." *American Ceramic Society, Cements Division, Advances in Cement-based Materials: Characterization, Processing, Modeling and Sensing*, West Lafeyette, IN, July 13, 2010.

2. **Ojo, J.O.**, Mohr, B.J. "Early Prediction of Concrete Durability Using Broadband Time-Domain Reflectometry Dielectric Spectroscopy" (Poster presentation). *Tennessee Technological University Student Research Day,* Cookeville, TN, April 15, 2010.

3. **Smith, L.B.**, Mohr, B.J. "Expansion of Mortas Due to Delayed Ettringite Formation" (Poster presentation). *Tennessee Technological University Student Research Day,* Cookeville, TN, April 15, 2010.

4. **Matheny, S.R.**, Mohr, B.J. "Effects of Lightweight Aggregates and Curing Methods on ConcreteFreeze-Thaw Durability" (Poster presentation). *Tennessee Technological University Student Research Day,* Cookeville, TN, April 15, 2010.

5. **Keaton, D.G.**, Mohr, B.J. "Age of Cracking and Induced Tensile Stress Characteristics of Internally Cured Concrete due to Restrained Drying Shrinkage" (Poster presentation). *Tennessee Technological University Student Research Day*, Cookeville, TN, April 15, 2010.

6. **Mohr, B.J.** "Curing Concrete from the Inside Out: Advances in Internal Curing" (**Invited**). Department of Civil and Environmental Engineering, School of Engineering and Applied Science, The George Washington University, November 16, 2009.

7. **Mohr, B.J.**, Ojo, J.O. "Analysis of Cement Hydration and Transport Kinetics at Early Ages" (**Keynote**). *3rd International Symposium on Nanotechnology in Construction (NICOM3),* Prague, Czech Republic, May 31-June 2, 2009.

8. **Smith, L.B.**, Mohr, B.J. "Expansion of Mortas Due to Delayed Ettringite Formation" (Poster presentation). *Tennessee Technological University Student Research Day,* Cookeville, TN, March 31, 2009.

9. **Thomason, J.C.,** Mohr, B.J. "Development of High Performance Structural Lightweight Concrete" (Poster presentation). *Tennessee Technological University Student Research Day,* Cookeville, TN, March 31, 2009.

10. **Ojo, J.O.,** Mohr, B.J. "Proton NMR: A Novel Approach for Characterizing the Durability of High Performance Concrete" (Poster presentation). *Tennessee Technological University Student Research Day*, Cookeville, TN, March 31, 2009.

11. **Smith, L.B.,** Mohr, B.J. "Expansion and Cracking of Concrete Structures Due to Delayed Ettringite Formation" (Poster presentation). *4th Annual Undergraduate Research Posters at the Capital*, Nashville, TN, February 11, 2009.

12. **Smith, L.B**., Mohr, B.J. "Expansion of Cementitious Mortars Due to Delayed Ettringite Formation." *19th Annual Argonne Symposium for Undergraduates in Science, Engineering, and Mathematics, Argonne National Laboratory*, Argonne, IL, November 7, 2008.

13. **Mohr, B.J.** "Curing High Performance Concrete from the Inside Out: Advances in Internal Curing" (**Invited**). Division of Engineering, Colorado School of Mines, August 25, 2008.

14. **Smith, L.B.**, Mohr, B.J. "Expansion of Cementitious Mortars Due to Delayed Ettringite Formation" (Poster presentation). *Tennessee Technological University Student Research Day,* Cookeville, TN, April 1, 2008.

15. **Hood, K.L.**, Mohr, B.J. "Internal Curing Water Movement in High Performance Cement-Based Materials." *American Concrete Institute, Internal Curing of High Performance Concretes: Laboratory and Field Experience,* Fajardo, Puerto Rico, October 15, 2007.

16. **Mohr, B.J.** "Multi-Scale Structure of Portland Cement-Based Materials." TTU Sigma Xi Luncheon Seminar, September 20, 2007.

17. **Biernacki, J.J.**, Mikel, S.E., Mohr, B.J., Gnaeupel-Herold, T., Almer, J. Residual Strain in Hydrating Portland Cement, *Material Science and Technology 2007 – Advances in Cement-Based Materials: Manufacturing, Hydration, Admixture Interaction, Properties/Characterization, Modeling and Degradation/Durability,* Detroit, MI, September 18, 2007.

18. **Mohr, B.J.** "Internal Curing and Autogenous Shrinkage Testing Methodologies" (**Invited**). *CEAT Workshop on Moisture and Temperature Modeling for Concrete Pavements,* University of Illinois, Urbana-Champaign, IL, July 10, 2007.

19. **Mohr, B.J.** "Internal Curing for HPC Shrinkage Mitigation" (**Invited**). *CEAT Workshop on Moisture and Temperature Modeling for Concrete Pavements,* University of Illinois, Urbana-Champaign, IL, July 9, 2007.

20. **Mohr, B.J.** "Modeling Internal Curing Water Moisture Transport" (**Invited**). *CEAT Workshop on Moisture and Temperature Modeling for Concrete Pavements*, University of Illinois, Urbana-Champaign, IL, July 9, 2007.

21. **Mohr, B.J.**, Biernacki, J.J., Kurtis, K.E. "Supplementary Cementitious Materials for Mitigating Kraft Pulp Fiber-Cement Composite Degradation" (**Invited**). *American Concrete Institute, Natural Fiber Cement Composites*, Atlanta, GA, April 23, 2007.

22. **Mohr, B.J.**, Nanko, H., Kurtis, K.E. "Internal Curing Using Wood-Derived Materials" (**Invited**). *American Concrete Institute, Natural Fiber Cement Composites*, Atlanta, GA, April 23, 2007.

23. **Hood, K.L**, Mohr, B.J. "Internal Curing Materials to Mitigate Early Age Shrinkage in High Performance Portland Cement-Based Materials" (Poster presentation). *Tennessee Technological University Student Research Day*, Cookeville, TN, April 5, 2007.

24. **Hood, K.L**, Mohr, B.J. "Evaluation of Internal Curing Materials to Mitigate Early Age Shrinkage in High Performance Portland Cement-Based Materials" (Poster presentation). *2nd Annual Undergraduate Research Posters at the Capital*, Nashville, TN, February 7, 2007.

25. **Mohr, B.J.**, Hood, K.L., Buchanan, G.R., Lance, M.J. "Transport Kinetics of Internal Curing Water in High Performance Cement Pastes" (**Invited**). *Material Science and Technology 2006 – Advances in Cement-Based Materials: Manufacture, Hydration, Admixture Interaction, Properties, and Degradation*, Cincinnati, OH, October 17, 2006.

26. **Mohr, B.J.**, Hood, K.L., Buchanan, G.R. "Mitigation of Autogenous Shrinkage in Mortars: Analysis and Modeling of Water Migration and Comparison of Various Internal Curing Materials." *International RILEM Conference: Volume Changes of Hardening Concrete - Testing and Mitigation*, BYG-DTU, Lyngby, Denmark, August 21, 2006.

27. Mohr, B.J., **Kurtis, K.E.** "Fractography of Fiber-Cement Composites via Laser Scanning Confocal Microscopy." *16th European Conference on Fracture, Measuring, Monitoring and Modeling Concrete Properties: In Honor of Surendra P. Shah*, Alexandroupolis, Greece, July 6, 2006.

28. **Mohr, B.J.,** Premenko, L., Nanko, H., Kurtis, K.E. "Examination of Wood-Derived Powders and Fibers for Internal Curing of Cement-Based Materials." *4th International Seminar on Self-Desiccation and Its Importance in Concrete Technology*, Gaithersburg, MD, June 20, 2005.

29. **Mohr, B.J.,** Nanko, H., Kurtis, K.E. "Aligned Kraft Pulp Fiber Sheets for Reinforcing Cement-Based Materials." *American Concrete Institute, Research in Progress*, New York, NY, April 18, 2005.

30. **Mohr, B.J.,** Biernacki, J.J., Kurtis, K.E. "Microstructural and Chemical Changes in Pulp Fiber-Cement Composites Due to Wet/Dry Cycling." *107th Annual Meeting & Exposition of the American Ceramic Society*, Baltimore, MD, April 13, 2005.

31. **Mohr, B.J.,** Biernacki, J.J., Kurtis, K.E. "Supplementary Cementitious Materials for Mitigating Kraft Pulp Fiber-Cement Composite Degradation" (Poster presentation). *107th Annual Meeting & Exposition of the American Ceramic Society*, Baltimore, MD, April 13, 2005.

32. **Mohr, B.J.** "Durability of Pulp Fiber-Cement Composites to Environmental Exposure" (**Invited**). Department of Chemical Engineering, Tennessee Technological University, Cookeville, TN, March 20, 2004.

33. Mohr, B.J., El-Ashkar, N.H., **Kurtis, K.E.** "Fiber-Cement Composites for Housing Construction: State-of-the-Art Review." *NSF-PATH Workshop*, Orlando, FL, February 14, 2004.

34. **Mohr, B.J.** "Durability of Pulp Fiber-Cement Composites to Wet/Dry Cycling." Georgia Tech Structural Engineering, Mechanics and Materials Seminar, September 30, 2003.

35. **Fisher, A**., Mohr, B.J., Kurtis, K.E., Nanko, H. "Understanding the Durability of Pulp Fibers in a Cement Matrix", *EMERGE Conference*, Atlanta, GA, April 25, 2003.

36. **Mohr, B.J.,** Bradford, A., Fisher, A., El-Ashkar, N.H., Nanko, H., Kurtis, K.E. "Durability of Pulp Fiber-Cement Composites to Wet/Dry Cycling." *American Concrete Institute, Research in Progress*, Vancouver, BC, Canada, April 4, 2003.

37. Mohr, B.J., Bradford, A., El-Ashkar, N.H., **Nanko, H.,** Kurtis, K.E. "Durability of Pulp Fiber-Cement Composites to Wet/Dry Cycling." *International Conference on Advances in Building Technology*, Hong Kong, China, December 4, 2002.

38. **Mohr, B.J.** "Fracture Behavior of Concrete." Georgia Tech Structural Engineering, Mechanics and Materials Seminar, October 29, 2002.