Related Journal Publications

A Pre-award archival journal papers related to this project by the investigators (authors in this project are highlighted with bold)


B Post-award publications by the investigators (Continuously updating) (authors in this project are highlighted with bold)

B.1 Publications directly related to this project

Refereed journal publications (published)


(14) **W. Xu** and **G. Li**. Finite Difference Three-Dimensional Solution of Stresses in Adhesively Bonded Composite Tubular Joint Subjected to Torsion. *International Journal

(15) **M. John** and **G. Li.** Self-Healing of Sandwich Structures with Grid Stiffened Shape Memory Polymer Syntactic Foam Core. *Smart Materials and Structures*, 19(7): (paper No. 075013) 1-12, (July, 2010).

(16) **G. Li** and **N. Uppu.** Shape Memory Polymer Based Self-Healing Syntactic Foam: 3-D Confined Thermomechanical Characterization. *Composites Science and Technology*, 70(9): 1419-1427, (September, 2010).


**Refereed journal publications (accepted/in press)**


(2) **G. Ji, Z. Ouyang** and **G. Li.** Effects of Bondline Thickness on Mode-II Interfacial Laws of Bonded Laminated Composite Plate. *International Journal of Fracture*, (Accepted November 8, 2010).


**Book chapter (published)**


**Conference presentations (with abstract publication)**


B.2 Publications in the broader area of composite materials

Refereed journal publications (published/accepted)


Conference presentations (with full-length proceedings publication)


Conference presentations (with abstract publication)


(Also presented in the ACAP 2008 Science, Engineering and Technology Seminars (SETS), Sugar Land, Texas, May 10, 2008.)

(9) **G. Li**, W. Alaywan, **S.I. Ibekwe**, and **S.S. Pang**. Advanced FRP Grid Tube Encased Concrete Cylinders. 16th International Conference on Composite/Nano Engineering (ICCE/16), Kunming, China, July 20-26, 2008.

**Presentations (without publication)**


C. Post-award invited talks by the investigators

Dr. Guoqiang Li has delivered invited talks:

(1) “Shape Memory Polymer-based Composites for Self-healing Structural-length Scale Damage” presented at a graduate seminar in the Department of Mechanical Engineering at the University of Louisiana, Lafayette, November 12, 2010 (1 hour).

(2) “Shape Memory Polymer-based Composites for Self-healing Structural-length Scale Damage” presented at a graduate class MEEN588: Topics in Materials Science at SU, August 20, 2010 (90 minutes).

(3) “Shape Memory Polymer-based Composites for Self-healing Structural-length Scale Damage” presented at Hong Kong Polytechnic University (May 23, 2010), University of Macau (May 25, 2010), Southeast University (May 28, 2010), and Chongqing Jiaotong University (June 1, 2010) (1 hour).

(4) “Laminated Plate Theory” presented at Southeast University (May 28, 2010) (4 hours).

(5) “Repair, Rehabilitation, Reinforcement, and Reconstruction of Damaged Concrete Structures Using FRP Composites” presented at Chongqing Jiaotong University (June 1, 2010) and Hebei University of Technology (June 4, 2010) (1 hour).

(6) “Shape-Memory Polymers and Their Mechanical Properties” presented at a graduate class “CHEM4011: Macromolecular” at LSU, November 24, 2009 (1.5 hour).

(7) “Self-healing of Structural-length Scale Damage using Shape Memory Polymer-based Composites” presented at a graduate class CHEM 7901: Macromolecular Seminar at LSU, November 20, 2009 (50 minutes).

(8) “What to Expect in College: A Professor's Perspective,” panel member for incoming freshmen in the LA-STEM and HHMI programs, organized by the Office of Strategic Initiatives at LSU (07/15/2009) (3 hours).

(9) “Micromechanics Based Construction Materials Design,” Presented at Chongqing Jiaotong University (05/25/2009) and Southeast University (05/27/2009), (1 hour).

(10) “Impact Damage and Self-Healing of Composite Structures,” Presented at Chongqing Jiaotong University (05/25/2009) and Southeast University (05/27/2009), (1 hour).

(11) “Integration of Education and Mentoring Programs at Louisiana State University” presented at I-Cube Workshop by NSF sponsored QUALITY EDUCATION FOR MINORITIES (QEM) Network, Houston, Texas, March 28, 2009 (30 minutes).

(12) “Shape Memory Polymer” presented at a graduate class “CHEM4011 Macromolecular” at LSU, March 19, 2009 (1.5 hour).

(13) “National Evaluation of the National Science Foundation’s Alliances for Graduate Education and the Professoriate (AGEP) Program” served as a Faculty Panel Member which was conducted by The American Institute for Research (AIR), January 19, 2010 (1 hour).

(14) “Classical Lamination Theory” presented at Entergy River Bend Nuclear Station for a training workshop, St. Francisville, LA, November 18, 2008 (1 hour).

(15) “Repair, Rehabilitation, Reinforcement, and Reconstruction of Civil Infrastructure Using FRP Composites” presented at Entergy River Bend Nuclear Station for a training workshop, St. Francisville, LA, November 18, 2008 (1 hour).

Dr. Su-Seng Pang has delivered invited talks:
(1) “Strategic Initiatives in Enhancing Student Diversity at Louisiana State University,” NSF’s Investing in Diversity Distinguished Lecture Series, National Science Foundation, Arlington, Virginia, September 29 (2008).


(4) “Integration of Education/Research/Mentoring Programs and Strategies for Developing Winning Proposals,” Miami University, Oxford, Ohio, April 7 (2009).


(6) “Preparing Diverse Scholars for Diverse Experiences: Mentoring Graduate Students from Diverse Backgrounds,” LSU Spring Faculty Enrichment Series, Office of Academic Affairs/Equity, Diversity & Community Outreach, Louisiana State University, April 20 (2009).


(9) “Part I: Roadmap for Academic Success and Strategies for Scholarship & Admission to U.S. Universities; Part II: Innovative Integration of Research/Education/Mentoring Programs at Louisiana State University,” Northeast University, Nanjing, China, May 27 (2009).

(10) “Part I: Integration of Education/Research/Mentoring Programs; Part II: Modeling of Adhesively Bonded Composite Structures,” University of Macau, Macau, China, May 29 (2009).


(13) “Brief Discussion of Evaluation and Assessment of Engineering Programs by the US/ABET and US/SACS,” The Hong Kong Polytechnic University, Hong Kong, May 24 (2010).


(15) “Brief Discussion of Evaluation and Assessment of Engineering Programs by the US/ABET and US/SACS,” Chongqing Jiaotong University, Chongqing, China, June 1(2010).
(17) “LSU/SU NASA Project on Smart Adhesively Bonded High-Performance Joint for Composite Structures” presented at Hong Kong Polytechnic University (May 23, 2010), University of Macau (May 25, 2010), and Southeast University (May 28, 2010) (1 hour).