

# *Curriculum Vitae*

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*Mahesh. V. Hosur, Ph. D, Fellow of ASME  
Associate Dean for Graduate Affairs and Research  
Professor, Mechanical and Industrial Engineering  
Texas A&M University, Kingsville  
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## **WORK EXPERIENCE**

Associate Dean for Graduate Affairs and Research/Professor of Mechanical and Industrial Engineering	Texas A&M University, Kingsville August 2018 - Present
Head	Tuskegee University, Materials Science Engineering July 2016-August 2018
Interim Head	Tuskegee University, Materials Science Engineering June 2015-June 2016
Professor	Tuskegee University, Materials Science Engineering October 2010-2018
Research Associate Professor	Tuskegee University, Materials Science Engineering June 2006-September 2010
Associate Professor:	Tuskegee University, Department of Aerospace Science Engineering, May 2004 –May 2006
Assistant professor:	Tuskegee University, Department of Aerospace Science Engineering, August 1999-May2004
Research Assistant Professor:	Center for Advanced Materials, Tuskegee University, Tuskegee August 1997-July 1999
Scientist (C):	Aeronautical Development Agency, Bangalore, India (May 1996-July 1997)
Research Associate:	Indian Institute of Science, Bangalore, India, April 1996
Research Assistant:	Indian Institute of Science, Bangalore, India, August 1993-March 1996
Lecturer:	Gogte Institute of Technology, India, August 1985-July 1988

## **Other Major Positions Involving Management Responsibilities**

- **Director:** PhD program in Sustainable Energy Systems Engineering (SESN) at Texas A&M University, Kingsville, TX (August 2018-Present)
- **Director:** NSF-EPSCoR, Enhancing Alabama's Research Capability in Nano/Bio Science and Sensors (2011-2017) involving seven universities
- **Director:** Alabama Center for Nanostructured Materials (2005-2010) involving six universities
- **Director:** NSF-CREST, Center of Excellence in Nanobiomaterials Derived from Biorenewable and Waste Resources (2011-2018) involving four universities

**NATIONALITY:** US Citizen

## **RESEARCH INTEREST**

**Research interests are focused in the following areas of advanced fiber reinforced composites, sandwich composites, nanophased composites, advanced green composites**

*Processing (hand layup, vacuum bag, autoclave, compression molding, microwave curing), Process Sensing, low-cost manufacturing using RTM, VARIM processes, static and dynamic (low-velocity, high strain rate, ballistic impact) characterization, Fatigue and Fracture, Structural Analysis, Development of Characterization of Flexible Armors for Extremities Protection, Repair of thick section composites, Damage Tolerant Design, Environmental Effects, Morphological Characterization, Microstructural Characterization, Non Destructive Evaluation, in particular Ultrasonic technique, Biopolymer/Polymer Nanocomposites processing and characterization (cure kinetics, thermal, mechanical and thermomechanical, rheology, Force Spinning)*

## **EDUCATION**

**Ph. D (1996): Aerospace Engineering, Indian Institute of science, Bangalore, India, ranked #1 in Asia-Pacific Region and 18<sup>th</sup> in the World (Source: World Education Report, September 1997)**

**Thesis: *Studies on Damage and Residual Compressive Strength of Carbon Fiber Reinforced Plastic Laminates Subjected to Low-Velocity Impact***

**M. Tech (1990): Aeronautical Engineering, Indian Institute of Technology, Bombay India, ranked 101<sup>st</sup> in the World (Source: World Education Report, September 1997)**

**Dissertation: *Study of Notched Fiber Reinforced Plastic Composites Under Biaxial Loading.***

**Bachelor of Engineering (1985): Civil Engineering, Karnataka University Dharwad, India**

## **COURSES TAUGHT**

### **Graduate Courses**

- MENG0542/MSEG0642:Mechanics of Composite Materials
- MENG0541/MSEG0641: Composite Materials
- MSEG 0640: Non Destructive Evaluation

### **Undergraduate Courses**

- AENG 0216: Strength of Materials

- AENG 0493: Special Topics: Composite Materials
- AENG 0267: Flight Mechanics
- AENG 0267: Aerospace Design and Analysis I
- AENG 0342: Aerospace Structures I
- AENG 342L: Aerospace Structures Laboratory
- AENG 0442: Aerospace structures II
- AENG 0370: Stability and Control
- AENG 0344: Aerodynamics I
- AENG 344L: Aerodynamics Laboratory
- MENG 0211: Statics
- MENG 0316: Strength of Materials
- Engineering Mechanics
- Engineering Mechanics (Lab)
- Structural mechanics
- Strength of Materials (Lab)
- RCC Design
- Concrete Technology
- Surveying

## **FUNDED GRANTS**

### **Funding as PI: (\$30,838,387)**

1. Fabrication of T-Joints with Simulated Defects for Thermal Imaging, Thermal Wave Imaging Inc., \$45,000, 2/1/2019-11/30/2019.
2. CREST Center for Sustainable Lightweight Materials (C-SLAM), National Science Foundation, \$5.0M, (9/1/2018-8/31/2023) Mahesh Hosur (PI), Maria L. Auad, Shaik Zainuddin, Anil N. Netravali, Vijaya K. Rangari (Co-PIs)
3. Collaborative Research: Northern Ohio AGEPT: A Racially and Ethnically Inclusive Graduate Education Model in Biology, Chemistry and Engineering, Case Western University/NSF, \$136,142, (10/01/2015-03/31/2019), Mahesh Hosur (PI)
4. Binary Nanoparticles Filled Fiber Reinforced Composites for Enhanced Damage Tolerance and Fatigue Life Subjected to Marine Environments, Army Research Office, \$594,000 (9/1/2015-8/31/2019), Mahesh Hosur (PI), Alfred Tcherbi-Narteh (Co-PI)
5. Analyzing the Processing and Properties of Long Fiber Thermoplastic Composites Made from Recycled Carbon Fiber, NSF-SBIR CREST supplement through Materials Technologies Innovations, LLC, \$70,000, December 2013-February 2015, Mahesh Hosur (PI).
6. Global Traineeship in Sustainable Electronics, NSF/IGERT with Purdue University, \$770,049 (7/01/2012 to 6/30/2019), Mahesh Hosur (PI)
7. Self-Healing of E-glass/Epoxy Composites with Latent Hardener Using Hollow Glass Tubes and Microencapsulated Epoxy, (11/21/2012-05/31/2014), U.S. Army Engineering Research Development Center Construction Engineering Research Laboratory, \$100,000, (Mahesh Hosur (PI), Shaik Zainuddin (Co-PI))

8. Investigation on Dynamic Characterization of Nanophased Fiber reinforced Composites Subjected to Naval Environmental Conditions, Department of Defense, (02/01/2011-01/31/2015), \$611,889, (Mahesh Hosur (PI), Shaik Zainuddin (Co-PI))
9. Enhancing Alabama's Research Capability in Nano/Bio Science and Sensors, National Science Foundation, (10/1/2011-8/31/2017), \$11,132,244 (Mahesh Hosur (PI), Chris Lawson, Skip Bartol (Co-PIs))
10. Center of Excellence in Nanobiomaterials Derived from Biorenewable and Waste Resources, National Science Foundation, (10/01/2011-09/30/2018), \$5.2 M, (Mahesh Hosur (PI), Anil Netravali, Vijaya Rangari, Shaik Zainuddin) (Co-PIs))
11. Improved Mechanical Properties of COPV Composites and SGM Sensor Efficiency for Increased Safety and Reliability, NASA Science and Technology Institute (NSTI) Research Clusters, UNCF Special Programs, (09/01/2011-08/31/2014), \$266,000 (Mahesh Hosur, PI)
12. Development of Prepreg and Out-of-Autoclave Process for Z-Aligned Carbon Nanofiber Toughened Lightweight Composites, NASA EPSCoR through University of South Alabama (09/01/2010-08/31/2014), \$135,000, (Mahesh Hosur, PI).
13. EPSCoR C2, University of Alabama in Huntsville (9/01/2010-07/31/2013), \$46,580, Mahesh Hosur (PI)
14. Self-Healing of E-Glass/Epoxy Composites Using Hollow Glass Fibers, U.S. Army Engineering Research Development Center Construction Engineering Research Laboratory (08/15/11-12/31/12), \$100,000 (Mahesh Hosur (PI), Shaik Zainuddin (Co-PI))
15. Alabama Center for Nanocomposite Materials, NSF-EPSCoR (09/01/2008-08/31/2010), \$1,250,000 (M. V. Hosur (PI), S. Jeelani, V. K. Rangari (Co-PI's)), a six university consortium.
16. Alabama Center for Nanocomposite Materials, NSF-EPSCoR (05/01/2005-04/30/2008), \$1,800,000, (M. V. Hosur (PI), S. Jeelani, M. Saha, V. K. Rangari, Y. Zhou (Co-PI's)), a six university consortium.
17. Synthesis, Manufacturing and Characterization of Structural Nanocomposites, National Science Foundation (10/01/2003-09/30/2009), \$4.5 M, (S. Jeelani (PI), D. Dean, M. V. Hosur, A. Ludwick, H. Mahfuz, M. Reeves, P. Ray (Co-PI's)), I am the PI of subproject III with a total budget of \$985,565.
18. Investigations on the Mechanical, Multifunctional and Environmental Behavior of Fiber Reinforced Polymer Nanocomposites for Marine Applications, Office of Naval Research (7/7/08-05/31/12), \$500,000, (Mahesh V. Hosur, PI, Shaik Jeelani, Shaik Zainuddin(Co-PIs)).
19. Survivability of Affordable Aircraft Composite Structures, Wright Patterson Air Force Research Laboratories (10/01/1999-03/31/2003) \$450,000 (M. V. Hosur (PI), S. Jeelani, J. Krishnagopalan, (Co-Investigators)), a four University consortium.
20. Processing and Performance Evaluation of Fiber Reinforced Polymeric Composites with Carbon Nanotubes/Nanofibers, Construction Engineering Research Laboratory (12/31/08-05/31/11), \$360,000 (Mahesh Hosur (PI), Shaik Zainuddin (Co-PI)).
21. MRI: Acquisition of a Material Testing System for Research and Educational Training in Static and Dynamic Characterization of Advanced Structural Nanocomposites, National Science Foundation (09/01/07-08/31/10), \$394,550 (Mahesh Hosur (PI), Yuanxin Zhou, Shaik Jeelani (Co-PIs)).

22. MRI: Acquisition of Ultrasonic C-Scan System for Research and Educational Training in Structural Nanocomposites, National Science Foundation (09/01/05-08/31/08), \$260,368 (Mahesh Hosur(PI), Mrinal C. Saha, Shaik Jeelani, Vijaya K. Rangari, Yuanxin Zhou(Co-PIs)).
23. Durability and Life Assessment of Fiber Reinforced Polymer Composites for Army Facilities: Experimentation, Modeling and Validation, Construction Engineering Research Laboratory (3/1/08-5/28/09), \$200,000 (Mahesh Hosur (PI), Yuanxin Zhou (Co-PI)).
24. Temperature Effects on the Dynamic Response of Graphite/Epoxy Composite Laminate Under In-plane Compression, Punch Shear and Transverse Loading, U.S. Army Cold Regions Research Laboratory, (10/01/2001-09/30/2003) \$ 175,000, (M. V. Hosur (PI), S. Jeelani (Co-PI)), a two University consortium.
25. Durability and Life Prediction of Nanophased Fiber Reinforced Polymer Composites for Army Facilities, Construction Engineering Research Laboratory (12/11/07-2/10/09), \$100,000 (Mahesh Hosur (PI), YuanXin Zhou (Co-PI)).
26. Effects of Surface Modifications on the Interfacial Properties of Structural Nanocomposites, National Science Foundation (06/01/05-05/31/06), \$100,000 (M. V. Hosur (PI), S. Jeelani, V. K. Rangari, Y. Zhou (Co-PI's)).
27. Roadside Explosive Hazard Indicator and Deterrent System (REHIDS), Concurrent Technologies Corporation, Mahesh Hosur (PI), Shaik Jeelani (Co-PI), \$56,000, (4/10/10-9/30/10).

**Funded grants as Co-PI: (\$40,054,161)**

28. Pathways to Promote Seamless Transitions for Undergraduate Engineering Majors, National Science Foundation, \$2,392,470, 10/1/2019-9/30/2024, Mohammad Alam (PI), Mahesh Hosur, Afzel Noore, Matthew Alexander, Hua Li (Co-PIs).
29. Targeted Infusion Project: Integrative Makers Course and Laboratory for STEM Undergraduates, \$400,000, 5/15/2018-4/30/2021, National Science Foundation, Shaik Zainuddin (PI), Mahesh Hosur, Mohammed A. Qazi, Vijaya K. Rangari, Alfred Tcherbi-Narteh (Co-PIs).
30. MRI: Acquisition of a Nanoindentation Equipment for Research and Education Training in Nano-Mechanical Characterization of NanoBio Materials, \$400,455, 8/15/2017-8/14/2020, National Science Foundation, Shaik Zainuddin (PI), Mahesh Hosur(Co-PI).
31. Implementation Project: Preparing Interdisciplinary Minority Material Scientists and Engineers of the Future, National Science Foundation,\$1,779,388, 7/1/2017-6/30/2022, Shaik Jeelani(PI), Mahesh Hosur, Michael Curry, Mohammed A. Qazi, Vijaya K. Rangari, (Co-PIs).
32. REU Site: Tuskegee University Research Experience for Undergraduates in Nano-Bio Materials Science and Engineering, National Science Foundation,\$377,994, 3/15/2017-2/29/2020, Shaik Zainuddin (PI), Mahesh Hosur (Co-PI).
33. MRI: Acquisition of a Field Emission Scanning Electron Microscope for Research and Educational Training in Microscopic Characterization of Nanomaterials, National Science Foundation, \$507,374, (09/15/2015-09/15/2018) (V. Rangari (PI), M. Hosur, C. Yates, S. Zainuddin, T. Samuel, (Co-PIs))
34. HBCU-RISE: Enhancement of Research and Educational Infrastructure in Nanobiomaterials Science and Engineering at Tuskegee University, National Science

- Foundation, \$1.0M, (04/01/2015-03/31/2018) (V. Rangari (PI), M. Hosur, S. Jeelani, S. Zainuddin, T. Samuel, (Co-PIs))
35. REU SITE: Tuskegee University Research Experience for Undergraduates in Nano-Bio Materials Science and Engineering, National Science Foundation, 03/01/14-08/31/16, \$330,000, (Shaik Zainuddin, PI, Mahesh V. Hosur (Co-PI))
  36. The NanoBio Science Partnership for Alabama Black Belt Region, National Science Foundation, (09/01/2011-08/31/2019), \$10 M, (S. Jeelani (PI), Daniel Boyd, M. V. Hosur, Mohammed Qazi, Carolyn Wallace (Co-PI's)).
  37. HBCU-RISE: Strengthening the Ph.D. Program in Materials Science and Engineering at Tuskegee University, National Science Foundation, (1/1/2009-12/31/2011), \$1,000,000 M, (S. Jeelani (PI), P. Ray, M. V. Hosur, V. K. Rangari, S. Singh, T. Floyd (Co-PI's)).
  38. Enhancement of Research Infrastructure in the Materials Science and Engineering Program at Tuskegee University, National Science Foundation, (10/1/2006-9/30/2008), \$1,000,000 , (S. Jeelani (PI), P. Ray, M. V. Hosur, K. K. Das, V. Ashford, G. V. Murphy (Co-PI's)).
  39. PREM: A Research and Educational Partnership in Nanomaterials between Tuskegee University and Cornell University, (9/01/2006-08/31/2012), \$2,550,000, (Shaik Jeelani (PI), Mahesh Hosur, Pradosh Ray (Co-PIs))
  40. Characterization of Nanocomposites and Composite Laminates, Clarkson Aerospace Inc., (8/1/2005-1/31/2010), \$225,000, (Shaik Jeelani (PI), Y. Zhou, M. V. Hosur, V. K. Rangari (Co-PI's)).
  41. Tuskegee University Research Experience for Undergraduates Site in Material Science and Engineering, National Science Foundation (09/01/2005-08/31/2008), \$ 203,480, (M. Reeves (PI), M.V. Hosur (Co-PI)).
  42. Development of Flexible Extremities Protection Utilizing Shear Thickening Fluid/Fabric Composites, Army Research Office (10/01/2004-09/30/2009), \$2,320,000, (S. Jeelani (PI), H. Mahfuz, M. V. Hosur, V. K. Rangari, M. Saha (Co-PI's)).
  43. Multidisciplinary Graduate Education and Research Training in Nanomaterials Science and Engineering, National Science Foundation (10/01/2003-09/30/2009), \$3,200,000, (S. Jeelani (PI), D. Dean, M. V. Hosur, A. Ludwick, H. Mahfuz, M. Reeves, P. Ray(Co-PI's)).
  44. Studies of Structural Nanocomposites Using Transmission Electron Microscope, National Science Foundation, (02/01/04-01/31/06), (\$1,000,000) (S. Jeelani (PI), H. Mahfuz, M. V. Hosur, P. K. Ray, A. Ludwick, M. Reeves (Co-PIs)).
  45. Innovative Materials and Processes for Next Generation Weapons Systems, U.S. Army Research Office (10/01/2001-08/31/2005) \$900,000 (M.V. Hosur (PI) in the third year, D. Dean, A. Ludwick, S. Jeelani (Co-PI's) ).
  46. Survivability of Affordable High Temperature Polymer Matrix Composites for Propulsion Engine Components, NASA Glenn Research Center (10/01/2001-08/31/2005) \$252,000 (M. Hosur(PI) in the second year, A. Haque, D. Dean, (Co-PI's)).
  47. Beta Factor Development for Several Locations in the C-130H Fuselage, Mercer Engineering Research Center, (Aug.-Dec. 2001) \$ 66,000, (A, Haque (PI), M. V. Hosur (Co-PI)).
  48. Intelligent Resin Transfer Molding for Integral Armor Applications Department of Defense (DoD), U. S. Army Office 01/01/1995-09/30/2000, (involved during second half) \$9,400,000, Several PI's and Multi-Institutional Tuskegee University Research Consortium.

49. Innovative Resin Transfer/Resin Infusion Molding and Non-destructive Evaluation of Advanced Materials, National Science Foundation, 10/01/1997-09/30/2003 \$150,000/year for five years (U. K. Vaidya (PI), S. Jeelani, M. V. Hosur – Investigators).

**Other Funding: \$1,405,833**

Graduate research scholar program funds from the state of Alabama through Alabama Commission on Higher Education: \$1,405,833 over eleven rounds from 2005 to current.

**Publications**

**BOOKS**

1. Guest Editors: **Mahesh V. Hosur**, Julie Chen (University of Massachusetts, Lowell), of the Special Issue of Journal of Composite Materials on Design and Manufacturing of Composites, Vol. 38, Issue 21, November 2004.
2. Developments in Theoretical and Applied Mechanics, Proceedings of the Twenty Second Southeastern Regional Conference on Theoretical and Applied Mechanics (SECTAM XXII), Volume XXII, Editors: Hassan Mahfuz, **Mahesh V. Hosur**, ISBN 0-615-12639-1, August 2004.
3. A. Pelegri, W.S. Chan, A. Haque, **M. V. Hosur** (editors)., Durability and Damage Tolerance of Composite Materials and Structures, ISBN No.0-7918-1641-9, Library of Congress Number 99-75419, New York, ASME Technical Publication Press, 1999, pp. 178.

**BOOK CHAPTER**

1. Shaik Zainuddin, **M. V. Hosur**, A. A. Mohammed, E. M. Smith and S. Jeelani, “Thermoset Resin Sandwich Structures,” in Lightweight Composite Structures for Transport: Design, Manufacturing, Analysis and Performance, Ed: James Njuguna, Woodhead Publishing Series in Composites Science and Engineering, 2016, ISBN: 978-1-78242-325-6, pp. 165-187.
2. Harish M. Rao, **Mahesh Hosur**, Shaik Jeelani, “Stab characterization of STF and thermoplastic impregnated ballistic fabric composites,” Chapter 12 of Advanced Fibrous Composite Materials for Ballistic Protection, Editors: Xiaogang Chen and Gwen Jones, Woodhead Publishing, Cambridge, UK, ISBN: 978-1-78242-461-1, 2016, pp. 363-388.
3. **Mahesh Hosur**, Farhan Chowdhury and Shaik Jeelani, “Effects of Fabrication Processes and Nanoclay Inclusion on Performance of Woven Carbon/Epoxy Composite Laminates,” Chapter 6 in Computational and Experimental Methods in Structures- Vol. 6: Woven Composites, Editor: Ferri M. H. Aliabadi, Imperial College Press, ISBN 978-1-78326-617-3, 2015, pp. 179-214.
4. S. Zainuddin, **M. V. Hosur**, Ashok Kumar, Jonathan Trovillion, S. Jeelani, “Durability Enhancement of Fiber Reinforced Composites Using Nanoclay,” book chapter in Advanced fibre-reinforced polymer (FRP) composites for structural applications, Edited by J Bai, University of Glamorgan, UK, ISBN-13: 978 0 85709 418 6, September 2013.
5. Shaik Zainuddin, **Mahesh Hosur**, Ashok Kumar and Shaik Jeelani, “Effects of ultraviolet radiation and condensation on static and dynamic compressive behavior of nanophased glass/ epoxy composites,” book chapter in Fiber Reinforced Polymer (FRP) Composites for



Infrastructure Applications, Editors: Ravi Jain, Luke Lee, Publisher: Springer, 2012, pp. 91-111.

6. **Mahesh V. Hosur**, “Enhancement of Thermal, Thermomechanical and Mechanical Properties of Carbon Fiber Reinforced and Sandwich Composites through Nanophased Epoxy/Foam,” in Recent Advances in Polymer Nanocomposites, Editors: S. Thomas, G. E. Zaikov, S. V. Valsaraj, Publisher, Koninklijke Brill NV, Leiden, The Netherlands, 2009, pp. 285-336.

## **REFEREED JOURNAL PUBLICATIONS**

### **PAPERS PUBLISHED/IN PRINT**

1. Shaik Zainuddin, S. M. Kamrul Hassan, Daniel Loeven, Mahesh Hosur, “Mechanical, Fire Retardant, Water Absorption and Soil Biodegradation Properties of Poly (3-hydroxy-butyrate-co-3-valerate) Nanofilms,” Journal of Polymers and Environment, Vol. 21, No. 3, published online July 16, 2019, <https://doi.org/10.1007/s10924-019-01517-9>.
2. **Mahesh Hosur**, Tanjheel Mahdi, Shaik Jeelani, “Studies on the Performance of Multi-Phased Carbon/Epoxy Composites with Nanoclay and Multi-Walled Carbon Nanotubes,” Multidisciplinary Modeling, Experiments and Design, 1(4), 2018, pp. 255-268.
3. Shatori Meadow, **Mahesh Hosur**, Yusuf Celikbag, Shaik Jeelani, “Comparative Analysis on the Epoxidation of Soybean Oil Using Formic and Acetic Acids,” Polymers and Polymer Composites, Vol. 26, No. 4, 2018, pp. 289-297.
4. S. M. Kamrul Hasan, Shaik Zainuddin, Jasmine Tanthongsack, **Mahesh Hosur**, “A Study of Poly (3-hydroxybutyrate-co-3-hydroxyvalerate) BioFilms Thermal and Biodegradable Properties Reinforced with Halloysite Nanotubes,” Journal of Composite Materials, DOI:10.1177/0021998318763246, Vol. 52, pp. 3199-3207, 2018.
5. Tanjheel Mahdi, Ekramul Islam, **Mahesh Hosur**, Shaik Jeelani, “Low Velocity Impact Performance of CFRPs Modified with Carbon Nanotube, Nanoclay and Hybrid Nanoparticles,” Journal of Reinforced Plastics, Vol. 36 (9), 2017, pp. 696-713.
6. **Mahesh Hosur**, Tanjheel H. Mahdi, Mohammad E. Islam, S. Jeelani, Mechanical and “Viscoelastic Properties of Epoxy Nanocomposites Reinforced with Carbon Nanotubes, Nanoclay and Binary Nanoparticles,” Journal of Reinforced Plastics, Vol. 36 (9), 2017, pp. 667-684.
7. Md. Nuruddin, **Mahesh Hosur**, Raju Gupta, Gaurav Hosur, Alfred Tcherbi-Narteh, and Shaik Jeelani, “Cellulose Nanofibers-Graphene Nanoplatelets Hybrids Nanofillers as High-Performance Multifunctional Reinforcements in Epoxy Composites,” Polymer and Polymer Composites, Vol. 25, Issue 4, 2017, pp. 273-284.
8. Md. Nuruddin, **Mahesh Hosur**, Tanjheel Mahdi, Shaik Jeelani, “Flexural, Viscoelastic and Thermal Properties of Epoxy Polymer Composites Modified with Cellulose Nanofibers Extracted from Wheat Straw,” Sensors & Transducers, 210 (3), 2017, pp. 1-8.
9. Fahim Abdullah, Shaik Zainuddin, Shaik Shoeib, **Mahesh Hosur**, Dawen Li, Mackenzie Matthews, Shaik Jeelani, “Properties of Polyhydroxy Butyrate Polyvalerate Biopolymeric Nanocomposites Reinforced with Natural Halloysite Nanotubes,” Journal

- of Material Science and Technology Research 3, 2016, 7-16, 10.15377/2410-4701.2016.03.01.2.
10. S. Zainuddin, F. Abdullah, S. Shoieb, **M. Hosur**, D. Li, C. Hicks, S. Jeelani, "Morphological and Mechanical Behavior of Chemically Treated Jute-PHBV Bio-Nanocomposites Reinforced With Silane Grafted Halloysite Nanotubes," Journal of Applied Polymer Science, Vol. 133 (39), 2016, DOI:10.1002/app.43994
  11. Alfred Tcherbi-Narteh, **Mahesh Hosur**, Shaik Jeelani, "Effects of Different Montmorillonite Nanoclay Loading on Cure Behavior and Properties of Diglycidyl Ether Bisphenol A Epoxy," Journal of Nanomaterials, Volume 2016, Article ID 3840348, 12 pages, 2016, doi:10.1155/2016/3840348.
  12. Shatori Meadows, **Mahesh Hosur**, Alfred Tcherbi-Narteh and Shaik Jeelani, "Rheological and Cure Kinetics Studies of PET-based Unsaturated Polyester Resin," Journal of Advanced Materials, Feb. 2016, Vol. 1, pp. 84-99.
  13. Md. Ekramul Islam, Tanjheel H Mahdi, **Mahesh V Hosur**, Shaik Jeelani, "Characterization of Carbon Fiber Reinforced Epoxy Composites Modified with Nanoclay and Carbon Nanotubes," Procedia Engineering (Elsevier), 105, pp. 821-828, 2015.
  14. Md. Nuruddin, **M., Hosur**, M., Uddin, M. J., Baah, D. and Jeelani, S., "A novel approach for extracting cellulose nanofibers from lignocellulosic biomass by ball milling combined with chemical treatment," 2015, J. Appl. Polym. Sci., 133, 42990, doi: 10.1002/app.42990
  15. M. E. Hossain, M. K. Hossain, **M. V. Hosur**, S. Jeelani, "Effect of Dispersion Conditions on the Thermal and Mechanical Properties of Carbon Nanofiber-Polyester Nanocomposites," Journal of Engineering Materials and Technology, July 2015, Vol. 137/31005:1-9.
  16. Md. Nuruddin, Raju Gupta, Alfred Tcherbi-Narteh, **Mahesh Hosur**, Shaik Jeelani, "Synergistic Effect of Graphene Nanoplatelets and Nanoclay on Epoxy Polymer Nanocomposites," Advanced Materials Research 2015, Vol. 1119 pp. 155-159, doi/10.4028/www.scientific.net/AMR.1119.155.
  17. Reaz Chowdhury, **Mahesh Hosur**, Md. Nuruddin, Alfred Tcherbi-Narteh, Ashok Kumar, Veera Boddu, Jonathan Trovillion and Shaik Jeelani, "Self-Healing epoxy composite- Preparation, characterization and healing performance," Journal of Materials Research and Technology, 2015, 4(1), pp. 33-43, <http://dx.doi.org/10.1016/j.jmrt.2014.10.016>.
  18. Dereca Watkins, Md. Nuruddin, **Mahesh Hosur**, Alfred Tcherbi-Narteh and Shaik Jeelani, "Extraction and Characterization of Lignin from Different Biomass Resources," Journal of Materials Research and Technology, 2015, 4(1), pp. 26-32, <http://dx.doi.org/10.1016/j.jmrt.2014.10.009>.
  19. Muhammad M. Rahman, **Mahesh Hosur**, Kuang-Ting Hsiao, Landon Wallace, Shaik Jeelani, "Low velocity impact properties of carbon nanofibers integrated carbon fiber/epoxy hybrid composites manufactured by OOA-VBO process," Composite Structures, Vol. 120, February 2015, pp. 32-40.
  20. Md. Ekramul Islam, Muhammad M. Rahman, **Mahesh Hosur**, Shaik Jeelani, "Thermal stability and kinetics analysis of epoxy composites modified with reactive polyol diluent and multi-walled carbon nanotubes," Journal of Applied Polymer Science, Vol. 132, No. 9, March 5, 2015, DOI:10.1002/APP.41558.

21. **Mahesh Hosur**, Harika Maroju and Shaik Jeelani, "Comparison of effects of alkali treatment on flax fiber reinforced polyester and polyester-biopolymer blend resins," *Polymer and Polymer Composites*, Vol. 23, No 4, 2015, pp. 205-217.
22. Victor A. Agubra, **Mahesh V. Hosur**, "Environmental degradation of E-glass/nanocomposite under the combined effect of UV radiation, moisture and rain," *Journal of Polymer Science, Part B. Polymer Physics*, Vol. 52, Issue 15, pp. 1024-1029, Aug. 1, 2014.
23. Mohammad K. Hossian, Md. Mahmudur R. Chowdhury, Mahmud B. Salam, Jonathan Malone, **Mahesh Hosur**, Shaik Jeelani, Nydeia Wright Bolden, "Improved Thermo-Mechanical Properties of Carbon Fiber Reinforced Epoxy Composite using Amino Functionalized XDCNT," *Journal of Applied Polymer Science*, Volume 131, Issue 17, 5 September 2014.
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## **PUBLICATIONS IN INTERNATIONAL CONFERENCE PROCEEDINGS**

1. **Mahesh Hosur**, Tanjheel Mahdi, Ekramul Islam, Shaik Jeelani, "Nanoparticle incorporation in thermoset polymers to enhance the performance of fiber reinforced composites," proceedings of the Nanocon 018, nanotechnology – Applications, Advances and Innovations, Pune, India, 25-26, October, 2018.

2. **Mahesh Hosur**, Alfred Tcherbi-Narteh, Delroy Watson, Mohamed Zaheeruddin, Kristoff McIntosh, Shaik Jeelani, "Polymeric Nanocomposites With Binary Nanoparticles Reinforcements and Hybrid Composites for Marine Applications, ECCM 18-18<sup>th</sup> European Conference on Composite Materials, Athens Greece, 22-24<sup>th</sup> June 2018.
3. Alfred Tcherbi-Narteh, Delroy Watson, Zaheeruddin Mohammad, Tobias Donnell, **Mahesh Hosur** and Shaik Jeelani, "Properties of Carbon, E-glass and Hybrid E-glass/Carbon Fiber Reinforced Polymer Composites Exposed to Seawater Conditioning," SAMPE 2018 Conference and Exhibition, May 21-24, 2018, Long Beach, CA.
4. S.M. Kamrul Hasan, Shaik Zainuddin, Jasmine S. Tanthongsack, **Mahesh V. Hosur**, "A Study on the Effect of Halloysite Nanotubes on the Thermal, Durability and Biodegradability Performance of Poly-(hydroxy -butyrate-hydroxy-valerate)-PHBV Nano Bio-composites," CAMX, The Composites and Advanced materials Expo, December 11-14, 2017, Orlando, FL.
5. Shaik Zainuddin, Chukwuma E. Nweke, **Mahesh Hosur**, Vincent Hollowman, Shaik Jeelani, "Effect of Core Shell Siloxane/Carbon Nanotubes Modifiers on the Mechanical and Thermal Performance of Bismaleimide Nanocomposites," CAMX, The Composites and Advanced materials Expo, December 11-14, 2017, Orlando, FL.
6. Alfred Tcherbi-Narteh, Delroy Watson, Shatori Meadows, Lenore S. Miller, Shavette Thompson, Mohammad Zaheeruddin, **Mahesh Hosur**, and Shaik Jeelani, "Interactions between Different Nanoparticles used as Binary Reinforcements in Polymer Nanocomposites," Proceedings of the American Society for Composites 32nd Technical Conference, October 22-25, 2017, West Lafayette, IN.
7. **Mahesh Hosur**, Md. Nuruddin, Dereca Hubbard, Alfred Tcherbi-Narteh, Shaik Jeelani, "Extraction of cellulose and lignin from biomass and their use in reinforcing polymers and synthesis of phenolic resins," The 21st International Conference on Composites Materials (ICCM-21), August 20-25, 2017, Xi'an, China.
8. Alfred Tcherbi-Narteh, Delroy Watson, Mohammad Zaheeruddin, Donnell Tobias, **Mahesh Hosur**, Shaik Jeelani, "Studies on Nanocomposites Reinforced with Nanoclay and Graphene Nanoplatelets, and Hybrid Composites with Glass and Carbon Fabric Reinforcements," The 21st International Conference on Composites Materials (ICCM-21), August 20-25, 2017, Xi'an, China.
9. Shatori Meadows, **Mahesh Hosur**, Alfred Tcherbi-Narteh, Shaik Jeelani, "Optimization Studies on the Synthesis and Characterization of Bio-based Epoxidized Soybean Oil (ESBO)," The 21st International Conference on Composites Materials (ICCM-21), August 20-25, 2017, Xi'an, China.
10. Vertonica Powell-Rose, **Mahesh Hosur**, Shaik Jeelani, Influence of Nanoclay on Curing, Mechanical and Thermal Properties of Bio-Based Epoxy Resin System, CAMX, The Composites and Advanced materials Expo, September 26-29, 2016, Anaheim, CA.
11. **M. Hosur**, T. Mahdi, E. Islam, S. Jeelani, Flexural, thermomechanical and low-velocity impact studies of CFRP composites with nanoclay and multiwalled carbon nanotubes, American Society for Composites 31st Technical Conference and ASTM Committee D30 Meeting, September 19-22, 2016, Williamsburg, VA.

12. S. Meadows, C. Young, D. Abugri, **M. Hosur**, Studies on the synthesis and characterization of epoxidized soybean oil, American Society for Composites 31st Technical Conference and ASTM Committee D30 Meeting, September 19-22, 2016, Williamsburg, VA.
13. Farooq Syed, Shaik Zainuddin, Amari carter, Mackenzie Matthews, **Mahesh Hosur**, Shaik Jeelani, "Single-walled carbon nanotube added epon 862 nanocomposites: Investigating the crosslinking behavior and interfacial properties through molecular dynamic simulations," SAMPE, Long Beach, CA, May 23-26, 2016.
14. Shaik Zainuddin, Abdullah Fahim, Shaik Shoieb, **Mahesh V. Hosur**, Dawen Li, Brittany Terry, Shaik Jeelani, "Jute nanobiocomposites reinforced with grafted halloysite nanotubes added PHBV polymer," SAMPE, Long Beach, CA, May 23-26, 2016.
15. Chukwuma E. Nweke, Shaik Zainuddin, **Mahesh Hosur**, Vincent Hollowman, Shaik Jeelani, "Processing and characterization of CNT/core shell siloxane modified high temperature bismaleimide polymeric composites," SAMPE, Long Beach, CA, May 23-26, 2016.
16. Shatori Meadows, Alfred Tcherbi-Narteh, **Mahesh Hosur**, and Shaik Jeelani, "Kinetic Analysis of Different Peroxide Initiators on the Cure Behavior of Biobased and Recycled Unsaturated Polyester Envirez Resins," Proceedings of The Composites and Advanced Materials Expo (CAMX 2015), October 26-29, 2015, Dallas, Texas, USA.
17. Md Nuruddin, Raju Gupta, Alfred Tcherbi-Narteh, **Mahesh Hosur**, Shaik Jeelani, "Preparation of poly(L-lactide )/Poly(methyl methacrylate) polymer blend: A Novel Approach," Proceedings of The Composites and Advanced Materials Expo (CAMX 2015), October 26-29, 2015, Dallas, Texas, USA.
18. Md Nuruddin, James McKee, Alfred Tcherbi-Narteh, Raju Gupta, **Mahesh Hosur**, Shaik Jeelani, "Flexure and Impact Behavior of E-glass/Carbon Hybrid Fiber Reinforced Epoxy Polymer Composite," Proceedings of The Composites and Advanced Materials Expo (CAMX 2015), October 26-29, 2015, Dallas, Texas, USA.
19. Dereca Hubbard, Md. Nuruddin, Alfred Tcherbi-Narteh, **Mahesh Hosur**, and Shaik Jeelani, "Synthesis and Characterization of Novel Phenolic Resin System Based on Lignin Extracted From Different Biomass Resources," Proceedings of The Composites and Advanced Materials Expo (CAMX 2015), October 26-29, 2015, Dallas, Texas, USA.
20. **Mahesh Hosur**, Tanjheel Mahdi, Md. Ekramul Islam, Alfred Tcerbi-Narteh, Shaik Jeelani, "Fabrication and Performance of Carbon/Epoxy Composites With Hybrid of Nanoclay and MWCNTS," 20<sup>th</sup> International Conference on Composites Materials (ICCM-20), Copenhagen, Denmark, July 22, 2015.
21. Alfred Tcherbi-Narteh, Md. Nuruddin, **Mahesh Hosur**, Raju Gupta, Allyson Lattimore, and Shaik Jeelani "Influence of Montmorillonite Nanoclay, Graphene Nanoplatelets and Combined Nanoclay/Graphene Hybrid on Properties of Epoxy Composite," 20<sup>th</sup> International Conference on Composites Materials (ICCM-20), Copenhagen, Denmark, July 23, 2015.
22. Md. Ekramul Islam, Tanjheel H. Mahdi, **Mahesh V. Hosur**, Shaik Jeelani, "Characterization of Carbon Fiber Reinforced Epoxy Composites Modified with Nanoclay and Carbon Nanotubes," 6th BSME International Conference on Thermal Engineering (ICTE 2014), 19-21 December, 2014, Dhaka, Bangladesh.

23. Md. Nuruddin, **Mahesh Hosur**, Eldon Triggs, Shaik Jeelani, "Comparative Study of Properties of Cellulose Nanofibers from Wheat Straw Obtained by Chemical and Chemi-Mechanical Treatments," ASME International Mechanical Engineering Congress & Exposition, November 14-20, 2014, Montreal, Canada.
24. Peter Owuor, Alfred Tcherbi-Narteh, **Mahesh Hosur**, Shaik Jeelani, "Durability Studies of Hybrid Composite of E-Glass/Carbon Fibers in Different Solvents for Bridge Deck Panel Application," ASME International Mechanical Engineering Congress & Exposition, November 14-20, 2014, Montreal, Canada.
25. T. H. Mahdi, M. E. Islam, **M. V. Hosur**, Alfred Tcherbi-Narteh, S. Jeelani, "Characterization of Mechanical and Viscoelastic Properties of SC-15 Epoxy Nanocomposites Reinforced with Multi-Walled Carbon Nanotubes, Nanoclay and Binary Nanoparticles," ASME International Mechanical Engineering Congress & Exposition, November 14-20, 2014, Montreal, Canada.
26. Md. Ekramul Islam, Tanjheel H. Mahdi, **Mahesh V Hosur**, Alfred Tcherbi-Narteh, Shaik Jeelani, "Low Velocity Impact Characterization of Nanoclay and MWCNTs Binary Nanoparticles modified Carbon/Epoxy Composites Subjected to Marine Environmental Conditioning," ASME International Mechanical Engineering Congress & Exposition, November 14-20, 2014, Montreal, Canada.
27. T. H. Mahdi, M. E. Islam, **M. V. Hosur**, S. Jeelani, "Characterization of Mechanical and Viscoelastic Properties of Carbon Fiber Reinforced Epoxy Composites Modified with Multi-walled Carbon Nanotubes, Nanoclay and Hybrid Nanoparticles," Composites and Advanced Materials Expo (CAMX), Orlando, FL October 13-16, 2014.
28. Md. Nuruddin, Alfred Tcherbi-Narteh, **Mahesh Hosur**, Shaik Jeelani, "Effect of Chemical treatments on Morphology, Crystalline and Thermal properties of Kenaf Fiber," Composites and Advanced Materials Expo (CAMX), Orlando, FL October 13-16, 2014.
29. T. H. Mahdi, M. E. Islam, **M. V. Hosur**, S. Jeelani, "Synergistic Effects of Nanoclay and MWCNTs on the Performance of Epoxy and Carbon Fiber Reinforced Epoxy Composites," Nanotechnology-Smart Materials, Composites, Applications and New Innovations, 3<sup>rd</sup> International Conference, NANOCON 014, 14-15, October 2014, Pune, India
30. Shaik Zainuddin, **Mahesh Hosur**, Chuckwuma Nweke, David Price, Shaik Jeelani, Ashok Kumar, "Durability of glass/epoxy nanocomposites subjected to synergistic elevated temperature and moisture conditions," American Society for Composites 29th Technical Conference, 16th US-Japan Conference on Composite Materials & ASTM-D30 Meeting, September 8-10, 2014, University of California San Diego, La Jolla, CA USA.
31. Eldon D. Triggs II, **Mahesh Hosur**, Shaik Jeelani, "Comparative Life Cycle Analysis of Tung Oil/Jute Fiber Bio-Composites to Synthetic Unsaturated Polyester Resins/E-glass Composites," American Society for Composites 29th Technical Conference, 16th US-Japan Conference on Composite Materials & ASTM-D30 Meeting, September 8-10, 2014, University of California San Diego, La Jolla, CA USA.
32. Md. Nuruddin, T. H. Mahdi, **M. V. Hosur**, S. Jeelani, "Mechanical and Thermal Properties of Cellulose Nanofibers Reinforced Epoxy Polymer Nanocomposites," American Society for Composites 29th Technical Conference, 16th US-Japan

- Conference on Composite Materials & ASTM-D30 Meeting, September 8-10, 2014, University of California San Diego, La Jolla, CA USA.
33. Md. Ekramul Islam, Tanjheel H. Mahdi, **Mahesh V Hosur**, Alfred Tcherbi-Narteh, Shaik Jeelani, "Comparison of Low Velocity Impact Properties of MMT, MWCNT and MMT/MWCNT Hybrid Nanoparticles modified Carbon/Epoxy Composites Subjected to Marine Environmental Conditioning," American Society for Composites 29th Technical Conference, 16th US-Japan Conference on Composite Materials & ASTM-D30 Meeting, September 8-10, 2014, University of California San Diego, La Jolla, CA USA.
  34. T. H. Mahdi, M. E. Islam, **M. V. Hosur**, S. Jeelani, "Evaluation of Fatigue Properties of Carbon Fiber Reinforced Epoxy Composites Modified with Nanoclay," First World Conference on Fracture and Damage Mechanics: Metals, Glass, Ceramics, Semiconductors, Polymers, Alloys, Composites, Nanocomposites, Gels, and Adhesives (FRACTURE 2014): August 9- 11, 2014 at Mahatma Gandhi University, Kottayam, Kerala, India.
  35. Shaik Zainuddin, Abdullah Fahim, Tauhid Arefin, **Mahesh Hosur**, Shaik Jeelani, "Mechanical performance of jute/epoxy, glass/epoxy and hybrid jute/glass/epoxy composites," Proceeding of SAMPE 2014, Seattle, June 2-5, 2014.
  36. Abdullah Fahim, Shaik Zainuddin, Ema K. Masuma, Jeremiah Tyson, **Mahesh V. Hosur**, Shaik Jeelani, "Morphological, Thermal and Tensile Properties of Halloysite Nanotubes Filled Poly Hydroxybutyrate-co-Hydroxyvalerate (PHBV) Nanocomposites," Proceeding of SAMPE 2014, Seattle, June 2-5, 2014.
  37. Shaik Zainuddin, Masuma Ema, Price David, **Mahesh Hosur**, Shaik Jeelani, "Flexure, Thermomechanical and Thermal Properties of Epon Composites Using Bentonite Nanoclay," Proceeding of SAMPE 2014, Seattle, June 2-5, 2014.
  38. Mohammad K Hossain, Md. Mahmudur R Chowdhury, Kazi A Imran, Mahmud B Salam, **Mahesh Hosur** and Shaik Jeelani, "Durability Study of Low velocity Impact Responses of Conventional and Nanophased CFRP Composites Exposed to Seawater," Proceeding of IMECE2013, ASME International Mechanical Engineering Congress and Exposition, November 15-21, 2013, San Diego, CA.
  39. Shaik Zainuddin, Tauhid Arefin, **Mahesh Hosur**, Shaik Jeelani, Ashok Kumar, "Recovery of low-velocity impact properties of glass fiber reinforced composites through self-healing technique," Proceeding of IMECE2013, ASME International Mechanical Engineering Congress and Exposition, November 15-21, 2013, San Diego, CA.
  40. **Mahesh Hosur**, Harika Maraju, Shaik Jeelani, "Influence of Alkali Treatment on Properties of Flax Fiber Reinforced Polyester Composites," Proceedings of the ICCM 13: International Conference on Composite Materials, Dubai, UAE, October 22-23, 2013.
  41. Md. Nuruddin, Alfred Tcherbi-Narteh, **Mahesh Hosur**, Reaz A Chowdhury, S. Jeelani, Peter Gichuhi, "Cellulose Microfibrils Extracted from Wheat Straw: A Novel Approach," SAMPE Fall Conference, October 21-24, 2013, Wichita, KS.
  42. Tanjheel H. Mahdi, Md. E. Islam, **Mahesh V. Hosur**, Shaik Jeelani, "Low Velocity Impact Characterization of Carbon Fiber Reinforced Epoxy Composites Modified with Multi-Walled Carbon Nanotubes, Nanoclay and Hybrid Nanoparticles," A Novel Approach," SAMPE Fall Conference, October 21-24, 2013, Wichita, KS.

43. Md Ekramul Islam, Muhammad M. Rahman, **Mahesh V. Hosur**, Shaik Jeelani, “Kinetics of Degradation of Epoxy Composites Modified with Reactive Polyol Diluent And Amino-Functionalized Multi-Walled Carbon Nanotubes,” SAMPE Fall Conference, October 21-24, 2013, Wichita, KS.
44. S. Zainuddin, T. Arifin, F. Abdalla, **M. V. Hosur**, J.D. Tyson, S. Jeelani, “Mechanical and Thermo-Mechanical Properties of Jute/Epoxy, Glass/Epoxy and Hybrid Jute/Glass/Epoxy Composites,” SAMPE Fall Conference, October 21-24, 2013, Wichita, KS.
45. Mohammad K. Hossain, Md. Mahmudur R. Chowdhury, Mahmud B. Salam, **Mahesh V. Hosur**, Shaik Jeelani, and Nydeia Wright Bolden, “Tensile and Flexural Properties of Woven Carbon/Epoxy-XD-CNT Nanophased Composites,” SAMPE Fall Conference, October 21-24, 2013, Wichita, KS.
46. **Mahesh Hosur**, Gregory Strawder, Shaik Jeelani, “Effects of Filler Type on the Behavior of Closed Cell Polyurethane Composite Foams and their Sandwich Constructions,” Foams® 2013, 11th International Conference on Advances in Foam Materials & Technology, September 11-12, 2013, Seattle, WA.
47. Alfred Tcherbi-Narteh, **Mahesh Hosur**, Eldon Triggs, Shaik Jeelani, “Behavior of Partially Cured Epoxy Composites Modified With Different Amounts of Montmorillonite Nanoclay Exposed To UV Radiation,” Proceedings of the American Society for Composites-Twenty-Eight Technical Conference, September 9-11, 2013, College Park, PA.
48. Eldon D. Triggs II Alfred Tcherbi-Narteh, **Mahesh V. Hosur**, Shaik Jeelani, “Thermo-Mechanical Characterization of Sustainable Composites Made From Bio-Based Polyester Resins and Nitroxide Mediated Hydroperoxide Initiators,” Proceedings of the American Society for Composites-Twenty-Eight Technical Conference, September 9-11, 2013, College Park, PA.
49. **Mahesh Hosur**, Gregory Strawder, Shaik Jeelani, “Low-Velocity Impact Response of Sandwich Composites with FRP Facesheets and Nanoclay-Wood Flour Modified Polyurethane Foam, The 8<sup>th</sup> Pacific Rim International Conference on Advanced Materials and Processing, August 4-9, 2013, Waikoloa, Hawaii.
50. Eldon Triggs, Michael Wells, **Mahesh Hosur**, Alfred Tcherbi-Narteh, Shaik Jeelani, “Cure and Thermo-Mechanical Characteristics of Bio-Based Polyester Composites Using Hydroperoxide Initiators,” 19<sup>th</sup> International Conference on Composite Materials, July 28-August 2, 2013, Montreal, Canada.
51. Muhammad M Rahman, **Mahesh Hosur**, Shaik Zainuddin, Shaik Jeelani, “High Velocity Impact Response of E-Glass/Epoxy Composites Modified With NH<sub>2</sub>-MWCNT,” 19<sup>th</sup> International Conference on Composite Materials, July 28-August 2, 2013, Montreal, Canada
52. **Mahesh Hosur**, Gregory Strawder, Shaik Jeelani, “Effects of Nanoclays and Wood Flour on the Performance of Polyurethane Foams,” 19<sup>th</sup> International Conference on Composite Materials, July 28-August 2, 2013, Montreal, Canada.
53. A. Tcherbi-Narteh, **M. Hosur**, E. Triggs, S. Jeelani, “Thermal and Viscoelastic Properties of SC-15 Epoxy Resin Composites Modified With Montmorillonite Nanoclay Exposed To UV Radiation,” 19<sup>th</sup> International Conference on Composite Materials, July 28-August 2, 2013, Montreal, Canada.

54. **M Hosur**, H Maroju, S Jeelani, “Comparative Studies on the Mechanical and Thermo-Mechanical Performance of Flax Fiber Reinforced Polyester and Polyester-Biopolymer Blend Resins,” *Advanced Materials Research*, August 2013, 747, 399-402, edited by Narongrit Sombatsompop, Debes Bhattacharyya and Karen Hoi-Yan Cheung, The 4<sup>th</sup> International Conference on Multi-Functional Materials and Structures (MFMS 2013), July 14-17, 2013, Bangkok, Thailand.
55. Nusrat Jahan, **Mahesh Hosur**, Shaik Jeelani, “Low-Velocity Impact of Woven Carbon/Epoxy Composites with MWCNTs,” 54th AIAA/ASME/ASCE/AHS/ ASC Structures, Structural Dynamics, and Materials Conference, 7-11, April 2013, Boston, MA
56. M. M. Rahman, S. Zainuddin, **M. V. Hosur**, J.E. Malone, Ashok Kumar, S. Jeelani, “Optimization of low velocity impact properties of E-glass/epoxy composites using plasticizing modifier,” ASME, International Mechanical Engineering Congress and Exposition, November 9-15, 2012, Houston, TX
57. Mohammad K Hossain, Emory Head, Mahesh Hosur, Shaik Jeelani, Fabrication and Characterization of Untreated, Alkali Treated, and POSS Treated Jute Fiber Reinforced–Polylactic Acid Composites, IMECE 2012, Houston, Texas, November 9-14, 2012.
58. Alfred Tcherbi-Narteh, **Mahesh Hosur**, Shaik Jeelani, “studies on cure kinetics and UV radiation of nanoclay modified SC15 epoxy resin used in structural applications,” SAMPE Fall Conference, October 25, 2012, Charleston, SC.
59. Eldon D. Triggs II, Alfred Tcherbi - Narteh, **Mahesh V. Hosur**, Shaik Jeelani, “Cure and Thermomechanical Characterization of Partially Bio-renewable Soybean Based Polyester Resin and Jute Fiber Laminates,” SAMPE Fall Conference, October 23, 2012, Charleston, SC.
60. M.B.A. Salam, **M.V. Hosur**, M. Jones, M. Fletcher, S. Jeelani, “Mechanical and Thermomechanical Behavior of Carbon/Epoxy Composites with Carboxyl Functionalized Multi-Walled Carbon Nanotubes,” Proceedings of the Nanocon 012, 2<sup>nd</sup> International Conference on Nanotechnology Innovative Materials, Processes, Products and Applications, October 18-19, 2012, Pune, India.
61. Eldon D. Triggs II, **Mahesh V. Hosur**, Shaik Jeelani, “Jute and Flax Based Biodegradable Composites for High Power Amateur Rocket Structural Applications,” Proceedings of the American Society for Composites Conference, Sept. 30- Oct. 3, 2012, Arlington, TX.
62. Alfred Tcherbi-Narteh, **Mahesh Hosur**, Shaik Jeelani, “Effects of UV Radiation On Degradation of Material Properties of Diglycidyl Ether of Bisphenol A (DGEBA) Epoxy Modified With Different Montmorillonite Nanoclays,” Proceedings of the American Society for Composites Conference, Sept. 30- Oct. 3, 2012, Arlington, TX.
63. Muhammad Rahman, **Mahesh Hosur**, Shaik Zainuddin, Uday Vaidya, Ashok Kumar, Jonathan Trovillion, Shaik Jeelani, “Effect of amino-functionalized MWCNTs on high velocity impact properties of E-glass/epoxy composites,” Proceedings of the American Society for Composites Conference, Sept. 30-Oct. 3, 2012, Arlington, TX.
64. M.M. Rahman, S. Zainuddin, **M.V. Hosur**, S. Jeelani, “Enhancement of Energy Absorption Capability of GFRP Composites using Plasticizing Modifier,” CD Proceedings of the SAMPE 2012, May 22, Baltimore, MD.



65. **Mahesh Hosur**, Mohammad Hossain, Alfred-Tcherbi Narteh, Md. Kazi Imraan, and S. Jeelani, "Effect of Nanoclay in Reducing Environmental Degradation of Carbon/Epoxy Nanocomposites," Proceedings of the 33<sup>rd</sup> International Technical Conference and Forum, SEICO 12, Paris, France, March 2012.
66. **M. V. Hosur**, H. Maraju, and S. Jeelani, "Effect of Alkali Treatment on the Performance of Flax Fiber Reinforced Polyester Composites," Proceedings of the International Conference on Mechanical Engineering (ICME 2011), Dhaka, Bangladesh.
67. M. B. A. Salaam, **M. V. Hosur**, S. Zainuddin and S. Jeelani, "Characterization of NH<sub>2</sub>-MWCNT/Epoxy Nanocomposites Using Two Different Cure Cycles," Proceedings of the International Conference on Mechanical Engineering (ICME 2011), Dhaka, Bangladesh.
68. M. M. Rahman, S. Zainuddin, **M. V. Hosur**, A. Kumar, J. Trovillion, and S. Jeelani, "Effect of Enhanced Cross-link Density on Interfacial Shear Strength of E-Glass/Epoxy Composites Modified by Amino-Functionalized MWCNTs", Proceedings of the International Conference on Mechanical Engineering (ICME 2011), Dhaka, Bangladesh.
69. N. Jahan, **M. V. Hosur**, S. Zainuddin, and S. Jeelani, "Mechanical and Thermal Characterization of COOH-Functionalized MWCNT Infused Epon 862 Nanocomposites," Proceedings of the International Conference on Mechanical Engineering (ICME 2011), Dhaka, Bangladesh.
70. Y. Zhou, **M. Hosur**, S. Jeelani, and S. Zainuddin, "Effect of clay on tensile, flex and fatigue behavior of carbon fiber reinforced epoxy," Proceedings of IMECE 20011, 2011 ASME International Mechanical Engineering Congress and Exposition, November 11-17, 2011, Denver, Colorado, USA.
71. M. M. Rahman, S. Zainuddin, **M. V. Hosur**, C. J. Robertson, M.B.A. Salam, Ashok Kumar, S. Jeelani, "Experimental Investigation of E-Glass/Epoxy Composites Modified Using NH<sub>2</sub> Functionalized Multi-Walled Carbon Nanotubes Through Sonication and Calendaring Methods," Proceedings of the SAMPE Fall Conference, Fort Worth, TX, October 17-20, 2011.
72. M.B.A. Salam, S. Zainuddin, **M. V. Hosur**, M. M. Rahman, J. Holly Jr., S. Jeelani, "Mechanical and Thermal Investigation of NH<sub>2</sub> Functionalized Multi-Walled Carbon Nanotube Epoxy Nanocomposites," Proceedings of the SAMPE Fall Conference, Fort Worth, TX, October 17-20, 2011.
73. A. Tcherbi-Narteh, **M. Hosur**, and S. Jeelani, "Mechanical and Thermal Properties of Carbon/Epoxy Nanoclay Composites Exposed to Synergistic Effect Of UV Radiation and Condensation," Proceedings of the 18<sup>th</sup> International Conference on Composite Materials (ICCM-18), August 21-26, 2011, Jeju Islands, South Korea.
74. M. Harika, **M. Hosur**, S. Jeelani, "Studies on the Fabrication and Characterization of Flax Fiber/Bio-Composites," CD Proceedings of the 18<sup>th</sup> International Conference on Composite Materials (ICCM-18), August 21-26, 2011, Jeju Islands, South Korea.
75. M. K. Hossain, M. W. Dewan, **M. V. Hosur**, and S. Jeelani, "Durability Study of Nanophased Jute-Based Green Composites," CD proceedings of the Nanotech Conference and Expo 2011, June 13-16, 2011.
76. M. K. Hossain, C. Okoro, **M. V. Hosur**, S. Jeelani, and V. Rangari, "Mechanical Characterization of XD-Grade Carbon Nanotube/Epon 862 Processed by Dual Phase

- Dispersion Technique,” CD proceedings of the Nanotech Conference and Expo 2011, June 13-16, 2011.
77. C.U. Okoro, M.K. Hossain, **M. Hosur**, S. Jeelani, “Mechanical and Thermal Characterization of XD- Grade Carbon Nanotube/Epon 862 Processed by Dual Phase Dispersion Technique,” Proceedings of the SAMPE Conference, 2011, Long Beach, CA, May 23, 2011.
  78. M.K. Hossain, M.W. Dewan, R. Carver, **M. Hosur**, S. Jeelani, “Thermal and Mechanical Performance of Jute- Polyester Nanophased Biocomposites,” Proceedings of the SAMPE Conference, 2011, Long Beach, CA, May 23, 2011.
  79. M.K. Hossain, K.A. Imran, **M. Hosur**, S. Jeelani, “Effect of Seawater on Mechanical Behavior of Conventional and Nanophased Carbon/Epoxy Composites,” Proceedings of the SAMPE Conference, 2011, Long Beach, CA, May 23, 2011.
  80. Alfred Tcherbi-Narteh, **Mahesh Hosur** and Shaik Jeelani, “Influence of Nanoclay on the Durability of Woven Carbon/Epoxy Composites,” International Conference on Composites for 21st Century: Current & Future Trends, Jan. 4-7, 2011, Bangalore, India **(invited)**.
  81. **Mahesh Hosur** and Shaik Jeelani, “Polymer Matrix/MWCNT Nanocomposites: Challenges and Opportunities as Materials for Structural Applications,” “Carbon Nanotechnology: Potential and Challenges” with a theme of “Innovations in Carbon Nanotechnology for the New Century,” 15-17 December 2010, Kanpur, India **(invited)**.
  82. M. K. Hossain, M. W. Dewan, **Mahesh Hosur**, Shaik Jeelani, “Thermal and Mechanical Characterization of Jute-Biopol Nanophased Green Composites,” 2010 Materials Research Society, Fall Meeting, Boston, Nov. 29-Dec. 2, 2010.
  83. Shaik Zainuddin, **Mahesh Hosur**, Shaik Jeelani, Rajib Barua, Influence of Amino Functionalized MWCNT Reinforcement on the Mechanical and Thermo-mechanical Properties of E-Glass/Epoxy Nanocomposites, 2010 Materials Research Society, Fall Meeting, Boston, Nov. 29-Dec. 2, 2010.
  84. M. K. Hossain, M. E. Hossain, **Mahesh Hosur**, Shaik Jeelani, “Study of Mechanical Responses and Thermal Expansion of Different Matrix Systems Used CNF-modified Polyester Nanocomposites,” 2010 Materials Research Society, Fall Meeting, Boston, Nov. 29-Dec. 2, 2010.
  85. M. K. Hossain, Kazi Imran, **Mahesh Hosur**, Shaik Jeelani, “Effect of Salt Water on Conventional and Nanophased Carbon/Epoxy Composites,” 2010 Materials Research Society, Fall Meeting, Boston, Nov. 29-Dec. 2, 2010.
  86. Alfred Tcherbi-Narteh, **Mahesh Hosur**, Shaik Zainuddin, Shaik Jeelani, “Static and High Strain Rate Compression Response of Carbon/Epoxy-Nanoclay Composites Subjected to Synergistic Effect of UV Radiation and Condensation,” 7<sup>th</sup> Asian Australasian Conference on Composite Materials, ACCM-7, 15-18 November, 2010, Taipei, Taiwan.
  87. Mohammad K. Hossain, Mohammad W Dewan, **Mahesh V. Hosur**, and Shaik Jeelani. Interfacial Improvement of Nanopahsed Jute-Based Green Composite by Surface Modification. ASME International Mechanical Engineering Congress and Exposition 2010, Vancouver, British Columbia, Canada, November 12-18, 2010.
  88. Muhammad E. Hossain, Mohammad K. Hossain, **Mahesh V. Hosur**, and Shaik Jeelani. Investigation of Carbon Nanofibers (CNFs) Effects on the Flexural and Thermal Behavior of E-Glass/Polyester Composites. ASME International Mechanical

- Engineering Congress and Exposition 2010, British Columbia, Canada, November 12-18, **2010**.
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  57. Y. Zhou, E. White II, **M. Hosur**, S. Jeelani, "Influence of TiO<sub>2</sub> Nanoparticles on Flexural Properties of Epoxy," Proceedings of the SAMPE '10, the International SAMPE Symposium and Exhibition, Seattle, WA, USA, May 17-20 (2010).
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  59. Shaik Zainuddin, **Mahesh V. Hosur**, Ashok Kumar, Shaik Jeelani, "Environmental Degradation Resistance of Fiber Reinforced Nanocomposites," Indo-US Workshop on Nanotechnology: Implications and Applications, Hyderabad, India, November 10, 2009 (**invited**)
  60. S. Zainuddin, **M. V. Hosur**, R. Barua, and A. V. Anafo, Ashok Kumar and S. Jeelani, "Effects of Ultraviolet Radiation and Condensation on Static and High Strain Rate Behavior of Nanophased Glass/ Epoxy Composites," The 1st joint American- Canadian International Conference on Composites September 16, 2009.

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62. **M. V. Hosur**, Md. A Bhuiyan, S. Jeelani, "Low-Velocity Impact Response of Sandwich Composites with Nanophased Core," International Conference on Composite Materials, ICCM-17, Edinburgh, UK, July 27, 2009.
63. S. Zainuddin, **M. V. Hosur**, A. Kumar, S. Jeelani, "Durability Studies of Nanophased FRP Composites under synergistic exposure conditions," International Conference on Composite Materials, ICCM-17, Edinburgh, UK, July 27, 2009.
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68. **Mahesh Hosur**, Merlin Theodore, Shaik Jeelani, "Effect of Functionalization on the Morphology, Cure Kinetics and Mechanical Behavior of Thermosetting Polymers," Proceedings of the IUTAM-MMSS2008 Symposium on Multifunctional Materials, Structures and Systems, December 12, 2008, Bangalore, India (**Invited**).
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77. Merlin Theodore, Mahesh V. Hosur, Sandra B. Young, Jonathan Thomas, Shaik Jeelani "Studies on the Cure Kinetics of EPON862 Reinforced with Functionalized MWCNTs," ASME International Mechanical Engineering Congress and Exposition, 12 November 2007, Seattle, WA.
78. **Mahesh V. Hosur**, Aleem A. Mohammed, Shaik Jeelani, "Impact Response of Nanophased Polyurethane Foam Core Sandwich Composites," International Conference on Composite Materials, July 9, 2007, Kyoto, Japan.
79. **M. V. Hosur**, J. B. Mayo Jr., E. Wetzal, and S. Jeelani, "Studies on the Fabrication and Stab Resistance Characterization of Novel Thermoplastic-Kevlar Composites," International Conference on Materials for Advanced Technologies – ICMAT-2007, July 4, 2007 Singapore
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82. **M. V. Hosur**, A. A. Mohammed, S. Jeelani, "Impact Response of the Nanophased Foam Core Sandwich Composites," 2<sup>nd</sup> International Conference on recent advanced in composite materials, New-Delhi, India, Feb. 20-23, 2007.
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86. **M. V. Hosur**, F. H. Chowdhury and S. Jeelani, "Processing and Low-Velocity Impact Performance of Nanophased Woven Carbon/Epoxy Composite Laminates," U.S Japan Conference on Composite Materials, Sept. 20-22, 2006
87. **M. V. Hosur**, F. H. Chowdhury, S. Jeelani, "Studies on Flexural and Thermal Response of Hand-layup Carbon/SC-15 Epoxy Composites," SEM Annual Conference &

- Exposition on Experimental and Applied Mechanics, St. Louis, Missouri, June 5- 7, 2006
88. **Mahesh V. Hosur**, Farhan. H. Chowdhury, Aleem. A. Mohammed and Shaik Jeelani, "Studies on the Processing and Performance of Nanocomposites for Structural Applications," 23<sup>rd</sup> Southeastern Conference in Theoretical and Applied Mechanics Mayagüez, Puerto Rico, May 21 – 23, 2006
  89. **M. V. Hosur**, F. H. Chowdhury, S. Jeelani, "Enhancement of Thermal and Mechanical Properties of Woven Carbon/Epoxy Composites through Nanoclay," Proceedings of the International Conference on Computational and Experimental Engineering and Sciences, ICCES'05, December 1-6, Chennai, India
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  92. **M. V. Hosur**, S. Jeelani, "Performance of Affordable Woven Carbon/Epoxy Composites Under Dynamic Loading," U. S. Army-HBCU/MI Workshop on Impact and Blast Mitigation, August 24-25, 2005, Williamsburg, VA
  93. **M. V. Hosur**, K. Jain, S. Jeelani, "Low-Velocity Impact Response of Carbon/Epoxy Laminates Subjected to Temperature and Moisture Conditioning," Proceedings, 15<sup>th</sup> International Offshore and Polar Engineering Conference, ISOPE 2005 , Seoul, South Korea, June 19-24, 2005
  94. **M. V. Hosur**, A. Menon, V. K. Rangari, S. Jeelani, "Thermal and Mechanical Characterization of Microwave Cured Nanoclay Reinforced Epoxy," CD Proceedings, SAMPE 2005 Conference, Long Beach CA May 1-5, 2005
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  97. **M. V. Hosur**, U. K. Vaidya, S. Jeelani, "Performance of Affordable Woven Carbon/Epoxy Composites Under Dynamic Loading," International Mechanical Engineering Congress and Exposition, IMECE 2004, November 13-19, 2004, Anaheim, CA
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  99. **M. V. Hosur**, K. Jain, S. Jeelani, "Effects of Temperature and Moisture on the Low-Velocity Impact Response of Carbon/Epoxy Woven Composites," International Mechanical Engineering Congress and Exposition, IMECE 2004, November 13-19, 2004, Anaheim, CA

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101. **M. V. Hosur**, M. Abdullah, Jeelani, "Fabrication and Low-Velocity Impact Response of Innovative Foam Filled 3-D Integrated Core Sandwich Composites," 11<sup>th</sup> US-Japan Conference on Composite Materials, September 9-11, 2004, Yonezawa, Japan
102. **M. V. Hosur**, S. M. Waliul Islam, U. K. Vaidya, S. Jeelani, "Dynamic Response of Satin Weave Graphite/Epoxy Composites Under Punch Shear Loading at Room and Elevated Temperatures," ICASI-2004, International Conference on Advanced in Structural Integrity, July 14-17, 2004, Bangalore, India
103. **M. V. Hosur**, M. Abdullah, S. Jeelani, "Response of Hollow and Foam Filled Integrated Core Sandwich Composites Under Low-Velocity Impact Loading," ICASI-2004, International Conference on Advanced in Structural Integrity, July 14-17, 2004, Bangalore, India
104. **M. V. Hosur**, S. M. Waliul Islam, U.K. Vaidya, S. Jeelani, "Dynamic Punch Shear Characterization of Twill Weave Graphite/Epoxy Composites," SAMPE 2004, Long Beach, CA, May 17-21, 2004
105. **M. V. Hosur**, M. Abdullah, S. Jeelani, "Low Velocity Impact Characterization of Hollow Integrated Core Sandwich Composites," SAMPE 2004, Long Beach, CA, May 17-21, 2004
106. **M. V. Hosur**, Waliul Islam, U. Vaidya, P. Dutta, S. Jeelani, "Dynamic Punch Shear Characterization of Woven Graphite/Epoxy Laminates," ASME International Mechanical Engineering Congress and Exposition, Washington D. C., November 16-21, 2003
107. **M. V. Hosur**, M. Adbullah, M. Hindmon, S. Jeelani, "Studies on the Low-Velocity Impact Response of Woven Hybrid Composites," ASME International Mechanical Engineering Congress and Exposition, Washington D. C., November 16-21, 2003
108. **M. V. Hosur**, M. Adbullah, S. Jeelani, "Innovative Manufacturing and Dynamic Characterization of Foam Filled Integrated Core Sandwich Composites," ASME International Mechanical Engineering Congress and Exposition, Washington D. C., November 16-21, 2003
109. **M. V. Hosur**, K. Jain, U.K.Vaidya, P.K. Dutta, S. Jeelani, "Experimental Studies on the Impact Response of Adhesively Bonded Woven S2-Glass/Epoxy Laminated Lap Joints," ASME International Mechanical Engineering Congress and Exposition, Washington D. C., November 16-21, 2003
110. **M. V. Hosur**, Waliul Islam, U. Vaidya, P. Dutta, S. Jeelani, "Evaluation of Dynamic Punch Shear Properties of Graphite/Epoxy Cross-Ply Laminates," 18<sup>th</sup> Annual Technical Conference of the American Society for Composites, Gainesville, FL, October 20-22, 2003
111. **M. V. Hosur**, M. R. Karim, S. Jeelani, "Behavior of Stitched Woven S2-Glass/Epoxy Composites Under High Strain Compression Loads, 14<sup>th</sup> International Conference on Composite Materials, ICCM-14, San Diego, CA, USA, Jul 14-18, 2003
112. **M. V. Hosur**, U.K.Vaidya, C. Ulven, A. Mayer, S. Jeelani, "Ballistic Impact Response of Woven Carbon/Epoxy Composites," SAMPE 2003, May 11-15, 2003, Long Beach, CA

113. **M. V. Hosur**, M. Adya, P. Dutta, S. Jeelani, "High Strain Response of Woven Graphite/Epoxy Composites at Elevated Temperatures," 44th AIAA/ASME/ASCE/ASC Structures, Structural Dynamics and Materials Conference, Norfolk, VA, April 2003
114. **M.V. Hosur**, D. Myers, U.K. Vaidya, and S. Jeelani, "Studies on the Repair of Ballistic Impact Damaged S2-Glass/Epoxy Laminates," ASME International Mechanical Engineering Congress and Exposition, New Orleans, LA, November 2002
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117. **M.V. Hosur**, J. Alexander, U. K. Vaidya, A. Mayer, S. Jeelani, "On and Off-Axis High Strain Rate Compression Characterization of Affordable Woven Carbon/Epoxy Composites," 17<sup>th</sup> Annual Technical Conference of the American Society for Composites, Purdue, IL, October 20-23, 2002
118. **M. V. Hosur**, M. R. Karim, "Single And Repeated Low Velocity Impact Studies on Stitched Woven S2-Glass/SC15 Epoxy Composites" USNCTAM14, June 23-28, 2002, Blacksburg, VA
119. **M. V. Hosur**, J. Alexander, U. K. Vaidya, S. Jeelani, "Characterization Of Affordable Satin Weave Carbon/Epoxy Laminate Composites Under Dynamic Compression Loading," Southeastern Conference on Theoretical and Applied Mechanics, SECTAM XXI, May 19-21, 2002, Orlando, FL
120. **M. V. Hosur**, M. R. Karim, S. Jeelani, "Studies on Stitched Woven S2 Glass/Epoxy Laminates Under Low and Ballistic Impact Loading," Southeastern Conference on Theoretical and Applied Mechanics, SECTAM XXI, May 19-21, 2002, Orlando, FL
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122. **M. V. Hosur**, J. Alexander, U. K. Vaidya, S. Jeelani, "Off-Axis High Strain Compression Response of Carbon/Epoxy Laminates," accepted for presentation and publication in the Proceedings of the 16<sup>th</sup> Annual Technical Conference of the American Society for Composites, Blacksburg, VA, September 9-12, 2001
123. **M. V. Hosur**, M. Adya, U.K. Vadiya, A. Mayer, S. Jeelani, "Characterization of Affordable stitched Plain Weave Carbon/Epoxy Composites Under Impact Loading," ICCM-13, Thirteenth International Conference on Composite Materials, June 25-29, 2001, Beijing China
124. **M. V. Hosur**, J. Alexander, M. Adya, U. K. Vaidya, S. Jeelani, "Impact Response of Affordable Graphite/Epoxy Woven Fabric Composites," 42<sup>nd</sup> AIAA/ASME/ASCE/ASC Structures, Structural Dynamics and Materials Conference, Seattle, WA, 16-19 April, 2001
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127. **M. V. Hosur**, U. K. Vaidya, A. Abraham, A. Carroll, S. Jeelani, "Comparison of Low-Velocity Impact Response of S2-Glass / SC-15 Epoxy Composites Manufactured by Low-Cost VARIM And RIT Techniques,” 15th annual Conference of American Society of Composites, College Station, TX, USA, Sept. 25-27, 2000
128. **M. V. Hosur**, U.K. Vaidya, J. Alexander, S. Jeelani, “High Strain Rate Response of Affordable Woven Graphite/Epoxy Composite Laminates,” 7<sup>th</sup> International Conference on Composites Engineering, ICCE/7, Denver, CO, USA July 2-8, 2000
129. **M. V. Hosur**, U. K. Vaidya, A. Abraham, S. Jeelani, “Studies on the Influence of 3D Reinforcement of S2-Glass/Vinyl Ester Composites Under Low-Velocity Impact Fatigue Loading,” Twentieth South Eastern Conference on Theoretical and Applied Mechanics, SECTAM XX, Callaway Gardens, Pine Mountain, GA, USA, April 16-18, 2000
130. **M. V. Hosur**, U. K. Vaidya, A. Haque, M. Kulkarni, R. Kulkarni, S. Jeelani, "Evaluation of Ballistic Impact damage of Fiber Reinforced Plastic Laminates Bonded by Polycarbonate Facesheet" ASME International Mechanical Engineering Congress and Exposition, Nashville, Tennessee, November, 1999
131. **M. V. Hosur**, U. K. Vaidya, A. Abraham, G. Basappa, S. Jeelani, "Studies on the influence of through-thickness stitching on low-velocity and high strain response of S2-Glass/Vinyl Ester Composites,” ASME International Mechanical Engineering Congress and Exposition, Nashville, Tennessee, November, 1999
132. **M. V. Hosur**, U. K. Vaidya, S. Jeelani, S. Jones, R. Eduljee, and J. Gillespie, Jr., "Activity Based Cost Modeling of Liquid Molding Processing Techniques for Thick Section Composites,” American Society for Composites, 14th Technical Conference, September 27-29, 1999, Dayton, OH
133. **M. V. Hosur**, U. K. Vaidya, J. Gillespie, Jr, S. Jeelani., "Ultrasonic Evaluation of Low-Velocity and Ballistic Impact Damage in S2-Glass Impact damage in S2-Glass/Vinyl Ester laminates,” 26th Annual Review of Progress in Quantitative Nondestructive Evaluation, July 25-30, 1999 Montreal, Quebec, Canada
134. **M. V. Hosur**, C. R. L. Murthy, T. S. Ramamurty, "Experimental Studies on Damage and Residual Compressive Strength of T300/914 CFRP Laminates under Low-Velocity Impact,” Symposium on Recent Developments in the Study of Impacts on Composite Materials, ASME 1999 Mechanics and Materials Conference, Blacksburg, VA, USA, June 27-30, 1999
135. **M. V. Hosur**, U. K. Vaidya, N. Jadhav, A. Abraham, S. Jeelani, "Compression behaviour of S-2 Glass/Vinyl Ester Composites for Integral Armor Application" IMECE-98, International Mechanical Engineering Congress and Exposition, Anaheim, California, November 15-20, 1998, USA
136. **M. V. Hosur**, U. K. Vaidya, A. Abraham, S. Jeelani, "Effect of 3D Reinforcement on the Low-Velocity Impact Response of S2-Glass/Vinyl Ester Composite Laminates" IMECE-98, International Mechanical Engineering Congress and Exposition, Anaheim, California, November 15-20, 1998, USA

137. **M. V. Hosur**, C. R. L. Murthy, T. S. Ramamurthy, "Residual Compressive Strength of Quasi-Isotropic CFRP Laminates Subjected to Low-Velocity Impact" Proceedings: American Society for Composites, 13th Annual Technical Conference September 21-23, 1998, Baltimore, Maryland, USA
138. **Mahesh.V.Hosur**, C. R. L. Murthy, T. S. Ramamurthy, "Low-Velocity Impact Response and Evaluation of Delamination Damage in CFRP Laminates" ASME International Congress of Mechanical Engineering and Exposition, Nov.16-22, 1997,Dallas, Texas, NCA-Vol.14, Dayal, Vaidya, Manetna Editors.
139. **M. V. Hosur**, C. R. L. Murthy, "Ultrasonic Evaluation of Delamination in Quasi-isotropic CFRP Laminates Subjected to Low-Velocity Impact" Proceedings of 14th WCNDT held at New-Delhi in December 1996
140. **M. V. Hosur**, C. R. L. Murthy, "NDE of Low-Velocity Impact damage in Carbon Fiber Reinforced Plastic laminates" Proceedings of National Seminar on NDE held at New-Delhi, India Dec. 1995
141. **M. V. Hosur**, C. R. L. Murthy., "NDE of Low-Velocity Impact Damage in CFRP Composites Using Ultrasonics," Proceedings 13th World Conference on Non-destructive Testing, Sao Paulo Brazil, Oct. 18-23, 1992
142. **Mahesh.V.Hosur**, C.R.L.Murthy," Evaluation of Delamination in Quasi -isotropic Carbon Fiber Reinforced Composites Due to Low Velocity Impact Loading," NDE-93, Dec. 1993, Madras, India.
143. S.K.John and C. R. L Murthy, "Acoustic Emission Characterization of Background noise Generated in HS - 748 Aircraft in flight," NASAS - 93, Dec.1993, IIT Kanpur.(Presented by **Mahesh. V. Hosur**)

## **INVITED LECTURES AND WORKSHOP PRESENTATIONS**

1. Mahesh Hosur, Muhammad. M. Rahman, "A Comprehensive Experimental Study of Glass/Epoxy Nanocomposites," BVB College of Engineering and Technology, Hubli, India, August 6, 2014.
2. Mahesh Hosur, "Polymeric Composites and Nanocomposites for Engineering Applications," Gogte Institute of Technology, Belgaum, India, August 5, 2014.
3. Mahesh Hosur, Tanjheel Hasan Mahdi, Md. Ekramul Islam, Shaik Jeelani, "Processing and Performance Evaluation of Fiber Reinforced Polymeric Composites with Binary (Nanoclay/MWCNT) Nanocomposites," Nanyang Technological University, Singapore, May 19, 2014.
4. "Comprehensive Experimental Studies on Structural Glass/CNT-Epoxy Multiscale Composites," Mechanical Engineering Department, Auburn University, November 15, 2013.
5. "Multi-Walled Carbon Nanotube Based Composite Materials for Structural Applications," Department of Fiber Science and Apparel Design, Cornell University, March 25, 2013.
6. Nuclear and Energy Research Institute, IPEN-CNEN/SP, Sao Paulo, Brazil, August 16, 2012.
7. Green Composites Workshop, University of Alabama at Birmingham, July, 2012.
8. Mardi Gras Conference-Computational Materials & Biosystems, February 18, 2012.

9. Green Composites Workshop, Bangladesh University of Engineering and Technology, December 21, 2011.
10. Nuclear and Energy Research Institute, IPEN-CNEN/SP, Sao Paulo, Brazil, April 4, 2011.
11. TU-Cornell-PREM, Joint PREM and MRSEC Meeting in Humaco, Puerto Rico, March 10, 2011.
12. BVB College of Engineering and Technology, Hubli, India, January 20, 2011
13. Cornell University, September 9, 2010.
14. Indo-US Workshop on Nanotechnology: Applications and Implications, November 10-12, 2009.
15. Auburn University, October 13, 2009.
16. 4<sup>th</sup> Annual HBCU/MI Research and Development Exchange hosted by Tuskegee University, 30 Sept. – 1 Oct. 2009 at Kellogg Conference Center.
17. Advanced Green Composites Workshop at University of Alabama at Birmingham, June 29, 2009.
18. Durability Workshop, ULCA, Los Angeles, June 22, 2009.
19. Composites durability and multifunctional materials for facilities, Champaign, IL for U.S. Army Construction Engineering Research Laboratory, June 25, 2008.
20. Alabama A & M University, October, 2007.
21. 3<sup>th</sup> Annual HBCU/MI Research and Development Exchange hosted by Tuskegee University, 12 April, 2007 at AMARDEC facility in Huntsville, AL.
22. Annual Conference and Stakeholder Symposium held in University of Alabama, Huntsville, Feb. 13, 2007.
23. Indian Institute of Science, Bangalore, India, December 2005.
24. U.S. Army HBCU-MI Workshop on Impact and Blast Mitigation, August 24, 2005.
25. Indian Institute of technology, Mumbai, India, July 2001.
26. Indian Institute of technology, Kanpur, India, July 2001.
27. Indian Institute of Science, Bangalore, India, May 2000, July 2001.
28. Nanyang Technological University, Singapore, June 2001.
29. University of Akron, OH, USA, November 2000.

**TECHNICAL REPORTS (in addition to the yearly reports submitted online to National Science Foundation and DoD since 2003)**

1. **Mahesh Hosur**, Reaz Chowdhury “Self-Healing of E-glass/Epoxy Composites Using Microencapsulated Epoxy.” W9132T-13-C-0001, U.S. Army Engineer Research and Development Center- Construction Engineering Research Laboratory (ERDC-CERL), June 2014.
2. Shaik Zainuddin, Arefin Tauhid and **Mahesh V. Hosur**, “Self-Healing of E-glass/Epoxy Composites Using Hollow Glass Fibers,” W9132T-11-C-0027, U.S. Army Engineer Research and Development Center- Construction Engineering Research Laboratory (ERDC-CERL), January 2013.
3. **M. V. Hosur**, S. Zainuddin, “Processing and Performance Evaluation of Fiber Reinforced Polymeric Composites with Carbon Nanotube/Nanofibers,” W9132-09-C-0010, U.S. Army Engineer Research and Development Center- Construction Engineering Research Laboratory (ERDC-CERL), June 2011.

4. **M. V. Hosur**, S. Zainuddin, Y. Zhou, "Project Title: Durability and Life Assessment of Fiber Reinforced Polymer (FRP) Composites for Army Facilities: Experimentation, Modeling and Validation," W9132T-08-C-0021, U.S. Army Engineer Research and Development Center- Construction Engineering Research Laboratory (ERDC-CERL), May 2009.
5. **M. V. Hosur**, S. Zainuddin, Y. Zhou, "Durability and Life Prediction of Nanophased Fiber Reinforced Polymer Composites for Army Facilities," U.S. Army Engineer Research and Development Center- Construction Engineering Research Laboratory (ERDC-CERL), Contract No. W9132T-08-P-0010, March 2009.
6. **M.V. Hosur**, A. Haque, D. Dean, U. K. Vaidya, "Survivability of Affordable High Temperature Polymer Matrix Composites for Propulsion Engine Components," NASA, Grant No. NAG-2654, 2005.
7. **M. V. Hosur**, Waliul Islam, S. Jeelani, U. K. Vaidya, P. K. Dutta, "Dynamic Characterization of Graphite/Epoxy Composite Laminates Under Inplane Compression, Punch Shear and Transverse Loading, Volume I: Overview and High Strain Rate Characterization," Final Technical Report, October 2003, U.S. Army Cold Regions Research Laboratory, Grant No. DACA42-01-C-0039.
8. **M. V. Hosur**, Waliul Islam, S. Jeelani, U. K. Vaidya, P. K. Dutta, "Dynamic Characterization of Graphite/Epoxy Composite Laminates Under Inplane Compression, Punch Shear and Transverse Loading, Volume II: Transverse Loading of Adhesively Bonded Composite Structures: Analysis and Experimentation," Final Technical Report, October 2003, U.S. Army Cold Regions Research Laboratory, Grant No. DACA42-01-C-0039.
9. **M. V. Hosur**, Waliul Islam, S. Jeelani, U. K. Vaidya, P. K. Dutta, "Dynamic characterization of Graphite/Epoxy Composite Laminate Under Inplane Compression, Single and Double Lap Shear Loading at Subzero, Room and Elevated temperatures," Interim Progress Report, June 2003, U.S. Army Cold Regions Research Laboratory, Grant No. DACA42-01-C-0039.
10. **M. V. Hosur**, S. Jeelani, U. K. Vaidya, S. Nwosu, A. D. Kelkar, "Survivability of Affordable Aircraft Composite structures" Final Technical Report, April 2003, AFRL-VA-WP-TR-2003-3071, Vol. 1: Overview, Manufacturing of Affordable Composites and Ballistic Impact Testing.
11. **M. V. Hosur**, S. Jeelani, U. K. Vaidya, S. Nwosu, "Survivability of Affordable Aircraft Composite structures" Final Technical Report, April 2003, AFRL-VA-WP-TR-2003-3072, Vol. 2: High Strain Rate Characterization of Affordable Composites.
12. **M. V. Hosur**, S. Jeelani, U. K. Vaidya, D. Kelkar, "Survivability of Affordable Aircraft Composite structures" Final Technical Report, April 2003, AFRL-VA-WP-TR-2003-3073, Vol. 3: Studies on the Low-Velocity Impact Response of Woven Composites.
13. **M. V. Hosur**, Waliul Islam, S. Jeelani, U. K. Vaidya, P. K. Dutta, "Dynamic characterization of Graphite/Epoxy Composite Laminate Under Inplane Compression, Single and Double Lap Shear Loading at Subzero, Room and Elevated temperatures," Interim Progress Report, March 2003, U.S. Army Cold Regions Research Laboratory, Grant No. DACA42-01-C-0039.
14. **M. V. Hosur**, Waliul Islam, S. Jeelani, U. K. Vaidya, P. K. Dutta, "Dynamic characterization of Graphite/Epoxy Composite Laminate Under Inplane Compression, Single and Double Lap Shear Loading at Subzero, Room and Elevated temperatures,"

- Interim Progress Report, December 2002, U.S. Army Cold Regions Research Laboratory, Grant No. DACA42-01-C-0039.
15. **M. V. Hosur**, S. Jeelani, U. K. Vaidya, P. K. Dutta, "Dynamic characterization of Graphite/Epoxy Composite Laminate Under Inplane Compression, Single and Double Lap Shear Loading at Subzero, Room and Elevated temperatures," Interim Progress Report, September 2002, U.S. Army Cold Regions Research Laboratory, Grant No. DACA42-01-C-0039.
  16. **M. V. Hosur**, S. Jeelani, U. K. Vaidya, S. Nwosu, A. D. Kelkar, "Survivability of Affordable Aircraft Composite structures" Interim Progress Report, September 2002, Air force Research laboratory, Grant No. F33615-99-C-3608.
  17. **M. V. Hosur**, S. Jeelani, U. K. Vaidya, P. K. Dutta, "Dynamic characterization of Graphite/Epoxy Composite Laminate Under Inplane Compression, Single and Double Lap Shear Loading at Subzero, Room and Elevated temperatures," Interim Progress Report, June 2002, U.S. Army Cold Regions Research Laboratory, Grant No. DACA42-01-C-0039.
  18. **M. V. Hosur**, S. Jeelani, U. K. Vaidya, C. Ulvin, "Survivability of Affordable Aircraft Composite structures" Interim Progress Report, April 2002, Air force Research laboratory, Grant No. F33615-99-C-3608.
  19. **M. V. Hosur**, S. Jeelani, U. K. Vaidya, P. K. Dutta, "Dynamic characterization of Graphite/Epoxy Composite Laminate Under In-plane Compression, Single and Double Lap Shear Loading at Subzero, Room and Elevated temperatures," Interim Progress Report, March 2002, U.S. Army Cold Regions Research Laboratory, Grant No. DACA42-01-C-0039.
  20. **M. V. Hosur**, S. Jeelani, U. K. Vaidya, P. K. Dutta, "Dynamic characterization of Graphite/Epoxy Composite Laminate Under In-plane Compression, Single and Double Lap Shear Loading at Subzero, Room and Elevated temperatures," Interim Progress Report, January 2002, U.S. Army Cold Regions Research Laboratory, Grant No. DACA42-01-C-0039.
  21. **M. V. Hosur**, J. E. Alexander, M. Adya, S. Jeelani, U. K. Vaidya, C. Ulvin, "Survivability of Affordable Aircraft Composite structures" Interim Progress Report, October 2001, Air force Research laboratory, Grant No. F33615-99-C-3608.
  22. **M. V. Hosur**, S. Jeelani, U. K. Vaidya, P. K. Dutta, "Dynamic characterization of Graphite/Epoxy Composite Laminate Under Inplane Compression, Single and Double Lap Shear Loading at Subzero, Room and Elevated temperatures," Interim Progress Report, September 2001, U.S. Army Cold Regions Research Laboratory, Grant No. DACA42-01-C-0039.
  23. **M. V. Hosur**, J. E. Alexander, S. Jeelani, U. K. Vaidya, "Survivability of Affordable Aircraft Composite structures" Interim Progress Report, April 2001, Air force Research laboratory, Grant No. F33615-99-C-3608.
  24. **M. V. Hosur**, J. E. Alexander, S. Jeelani, Ajit. D. Kelkar, U. K. Vaidya, "Survivability of Affordable Aircraft Composite structures" Interim Progress Report, October 2000, Air force Research laboratory, Grant No. F33615-99-C-3608.
  25. **M. V. Hosur**, J. E. Alexander, S. Jeelani, J. Krishnagopalan, U. K. Vaidya, "Survivability of Affordable Aircraft Composite structures" Interim Progress Report, April 2000, Air force Research laboratory, Grant No. F33615-99-C-3608.

26. **M. V. Hosur**, U.K. Vaidya, S. Jones, R. Eduljee, J. Gillespie, Jr., S. Jeelani., "Activity Based Cost Modeling of Thick Section S2-Glass/Epoxy laminates for Integral Armor Applications," Technical report, ARO.
27. U. K. Vaidya, A. Haque, **M. V. Hosur**, "Ballistic Performance of Polycarbonate-Composite Laminates" Final Technical Report submitted to Army Cold regions Research and Engineering laboratory, Contract No. DACA89-98-M-0186, May 1999.
28. **M. V. Hosur**, U. K. Vaidya, A. Abraham, and S. Jeelani, "Static and High Strain Rate Compression Response of Twill Weave S2-Glass/Vinyl Ester Thick 2D and 3D Liquid Molded Composites," Technical Report, ARO-TURC-TCAM-97-9.
29. **M. V. Hosur**, U. K. Vaidya, A. Abraham, and S. Jeelani, "Low Velocity Impact Response of 2D Laminated, Stitched and Z-pin reinforced Resin Infused Composites," Technical Report, ARO-TURC-TCAM-97-10.
30. U. K. Vaidya, **M. V. Hosur**, E. Harrington, K. Fotedar, N. Jadav, E. Shelton, and M. Rahman, "Smart-Weave Sensing Studies for S2-Glass/Vinyl Ester Composites in the Resin Infusion Molding Process, Technical Report ARO-turc-tcam-97-05.
31. U. K. Vaidya, A. Abraham, **M. V. Hosur**, P. Kumar Mohan, Jaya Krishnagopalan, Anwar Haque and A Talib, "Comprehensive Study on 2D and 3D Manufacturing Concepts and Mechanical Performance of Thick S2-Glass/Vinyl Ester Liquid Molded Composites," Technical Report, ARO-TURC-TCAM-97-06.
32. **M. V. Hosur**, J. Prasad, ADA Report No. ADA/AF/NDT-01/1997 "Ultrasonic Reference Standards for LCA Composite Components" July 1997.
33. ADA Report No. ADA/AF/FF© /R01/94 "Drop Weight Impact testing of Composite Panels".
34. C. R. L. Murthy, **M. V. Hosur**, Anita Jannu, Bharat Bhushan, "NDE of Low-Velocity Impact damage in CFRP Composites Using Ultrasonics," ARDB-STR-TR-92-563B-03, 1992.

## **AWARDS AND HONORS**

- Russell W. Brown Distinguished Scientist Research Award, Tuskegee University Chapter of Sigma Xi, The Scientific Research Society, April 11, 2014.
- Fellow of American Society for Mechanical Engineers, April 2013.
- 2011-2012 Faculty Achievement Award at Tuskegee University.
- 2009-2010 Faculty Performance Award for Research in the College of Engineering, Architecture and Physical Sciences.
- ASME Materials Division recognition for organizing symposia on Design and Manufacturing of Composites, 2003-2009.
- ASME Region XI recognition for serving as the Chair of Chattahoochee Section, 2003-2005.
- Named in the 2003/2004 America's Registry of Outstanding Professionals.
- Selected for the inclusion in the 1999/2000 Edition of Lexington Who's Who Registry of Executives and Professionals.
- Best paper award at the 14<sup>th</sup> World Conference on NDT, New Delhi, India, 8<sup>th</sup>-13<sup>th</sup> December 1996.

- Fellowship, Indian Institute of Science, Bangalore, India, for Ph. D Program.
- Fellowship, Indian Institute of Technology Bombay, for M. Tech Program.
- Fourth Rank to the Karnataka University (12 Engineering Colleges) at fourth year of BE.
- First Rank to the Karnataka University (12 Engineering Colleges) at third year of BE.
- First Rank to the Karnataka University (12 Engineering Colleges) at second year of BE.
- National merit Scholarship, from 11<sup>th</sup> grade till completion of Bachelor of Engineering Program.

## **OTHER PROFESSIONAL ACTIVITIES**

### **Service to the Tuskegee University**

- Member, Title III Faculty Development Activities.
- Chair, University Academic Personnel Service Committee, Tuskegee University, 2015-2016.
- Member of Graduate Council, 2015-2018
- Member, Faculty Handbook Revision Committee, Tuskegee University, 2015-2017.
- Member of Faculty Senate, Tuskegee University 2014-2016.
- Member of Search Committee: Dean of College of Engineering 2015-2016, Dean College of Business and Information Sciences 2015-2016.
- Involved in the outreach activities: Research Experience for Teachers, Research Experience for high school students, and Research Experience for Undergraduates, Science and Technology Open house, Nano-biotechnology Academy for teachers in summer since 2004.
- Sponsored undergraduate and graduate students to present their research activities in national and international conferences for poster and oral presentations.
- Member, Faculty Achievement Award Committee, Tuskegee University, 2002-2003.
- Chairman: Webpage Committee, College of Engineering, Architecture and Physical Sciences, 2002-2006.
- Designed and managed web pages for the
  - College of Engineering Architecture and Physical Sciences
  - Department of Aerospace Science Engineering
  - Center for Advanced Materials
  - NSF-CREST Center
  - NSF-IGERT Center
  - Alabama Center for Nanostructured Materials
- Faculty advisor, AIAA student chapter, Tuskegee University, May 2001 to August 2003.
- Assisted Dr. Uday Vaidya in developing web based teaching module on the design and manufacture of Composites, Tuskegee University, Jan. 1998.

### **Chairman**

- Technical Chair for Southeastern Conference on Experimental and Theoretical Applied Mechanics, SECTAM XXII, August 15-17, 2004.

- Chair-Tuskegee University Annual Undergraduate Science and Engineering Conference (USEC) 2002, 2003 (attended by over 35 colleges).

### **Editorial**

- Edited Conference Proceedings Undergraduate Science and Engineering Conference, Tuskegee University, USEC 2002, 2003.
- Designed, edited, and created CD-proceedings 53<sup>rd</sup> AIAA Southeastern Regional Student Conference, April 2002.

### **Reviewer**

- PhD Dissertation:
  - External Examiner of PhD dissertation, Indian Institute of Technology, Chennai, India, November 2016.
  - External Examiner of PhD dissertation of a candidate from Nanyang Technological University, Singapore, September 2015.
  - External examiner of PhD dissertation of candidates from Nirma University and Indian Institute of Science, Bangalore, India: Fall 2014.
  - External Examiner of PhD dissertation of a candidate from Karachi University, Pakistan, December 2013
  - External Examiner of PhD dissertation of a candidate from Nanyang Technological University, Singapore, September 2013
  - External examiner of PhD dissertation of a candidate from McGill University, Jan-Feb, 2010
- Journal Articles:
  - Powder Technology, Experimental Mechanics, AIAA Journal, Journal of Composite Materials, Composite Structures, Composites-Part A Applied science and Manufacturing, Materials Science and Engineering-A, Engineering Materials & Technology, Composites Science and Technology, Polymers and Polymer Composites, Macromolecular Materials & Engineering, Royal Society E-Publications, Journal of Materials Science, Applied Composite Materials, Applied Mechanics Reviews, Philosophical Magazine, Polymer Engineering & Science.
- Technical Proposals:
  - U.S. Army Medical Research and Materiel Command, Congressionally Directed Medical Research Programs (CDMRP), April 2018
  - NSF-EPSCoR RII track I proposal, red team member for the state of Nevada, 2017.
  - Army Research Office, January 2017.
  - Department of Defense SMART Program, January 2017.
  - Internal Reviewer of University of Nebraska, NSF-EPSCoR RII proposal, 2015
  - NSF-Ad hoc panel, CREST : December 2014-January 2015



- Department of Homeland Security, External reviewer, December 2014
  - NSF-Mechanics of Materials Division (Panel P140945), February 2014
  - Ad-hoc Reviewer, NSF-CREST proposal subprojects, July 2013
  - Qatar National Foundation : several proposals Since 2013
  - NSF-CREST and HBCU-RISE proposals, June 2012
  - Alabama NASA-EPSCoR Proposals, July 2007
  - Fonds Québécois de la recherche sur la nature et les technologies, Québec, Canada (December 2005)
  - National Science Foundation (Panel ID MPM2223, April 2004)
  - American Chemical Society, September 2003
- Technical Papers:
    - 17<sup>th</sup> International Conference on Composite Materials, ICCM 17, 2009
    - 16<sup>th</sup> International Conference on Composite Materials, ICCM 16, 2007
    - ASME IMECE 1997-2014
    - 13<sup>th</sup> International Conference on Composite Materials, ICCM13, 2001

### **Other Professional Organizations**

- Member, External Advisory Board, NSF-CREST grant at Southern University, Baton Rouge, LA, 2010-2012
- Chair, ASME Materials Division Committee on Composites and Heterogeneous Materials, November 2006- 2008
- Vice Chair, ASME Materials Division Committee on Composites and Heterogeneous Materials, Nov. 2004-October 2006
- Chair, ASME Chattahoochee Section, October 2002-June 2005
- Treasurer, ASME Chattahoochee Section, October 1999-September 2002

### **Activities at the International Conferences**

- Session Chair – Thin Films, Nanocon 2018, Pune India, October 26, 2018.
- Member International Committee, NanoCon 2010, NanoCon 2012, Nanocon 2014, NanoCon 2018, held in Pune, India.
- Session Chair, International Conference on Nanostructured Polymeric Materials and Polymer Nanocomposites, November 2015
- Session Chair, NanoBio Summit, University of Alabama at Birmingham, October 2015
- Session Chair and Organizer, ASME IMECE 2014
- Session Chair, NanoCon 014, October 2014, Pune India
- Session Chair, International Conference on Fracture, August 2014, Kottayam, Kerala
- Session Chair, 9th International Materials Technology Conference and Exhibition, IMTCE 2014, May 13-16, 2014, Kuala Lumpur, Malaysia
- Session organizer: Design and Manufacturing of Composites, Houston, TX, Nov. 9-15, 2012.

- Session Chair, Eco Friendly Synthesis of Nano Materials, Nanocon 012, 2<sup>nd</sup> International Conference on Nanotechnology- Innovative Materials, Processes, Products and Applications, Pune, India, October 18, 2012.
- Session organizer on Analysis, Design, and Manufacturing of Composites: Maintenance Considerations, and Recycling at the 2011 International Mechanical Engineering Congress & Exposition, Denver, CO, November, 2011.
- Session organizer on Analysis, Design, and Applications of Composites at the 2010 International Mechanical Engineering Congress & Exposition, Boston, MA, November, 2010.
- Session organizer on Analysis, Design, and Applications of Composites at the 2009 International Mechanical Engineering Congress & Exposition, Boston, MA, November, 2009.
- Session Chair, Indo-US Workshop on Nanotechnology: Applications and Implications, November 11, 2009, 9:00 AM – 11:00 AM invited lectures session.
- Session Chair, Dynamic Response, The 1st joint American- Canadian International Conference on Composites September 16, 2009.
- Member, International Scientific and Advisory Committee, 17<sup>th</sup> International Conference on Composite Materials, ICCM-17, Edinburgh, UK 27-31, July 2009
- Session Organizer, Polymer Nanocomposites for Structural Applications at the 17<sup>th</sup> International Conference on Composite Materials, ICCM-17, Edinburgh, UK 27-31, July 2009
- Session Chair, Interfaces, Interpenetrating Polymer Networks, Application of Polymer Membranes and Thin Films, 2<sup>nd</sup> International Conference on Polymer Blends, Composites, IPNs, Membranes, Polyelectrolytes and Gels, Macro to Nanoscales, ICBC-2008, Kottayam, Kerala, India, Sept. 22, 2008
- Session organizer on Analysis, Design, and Applications of Composites at the 2008 International Mechanical Engineering Congress & Exposition, Boston, MA, November, 2008
- Session Organizer of Construction Composites at the Annual Technical Conference of American Society for Composites, Memphis, TN, Sept. 2008.
- Session Chair, Nanocomposites Fabrication, Annual Technical Conference of American Society for Composites, Memphis, TN, Sept. 9, 2008.
- Organized a workshop on the Composites Durability and Multifunctional Materials held on June 25<sup>th</sup> at Urbana, IL.
- Topic Organizer, Materials Division, Symposium on the Design and Manufacturing of Composites for the ASME IMECE 2006, Seattle, WA November 2007
- Session Chair, Polymer Nanocomposites for Structural Applications at the 16<sup>th</sup> International Conference on Composite Materials held at Kyoto, Japan, July 9, 2007
- Session Organizer, Polymer Nanocomposites for Structural Applications at the 16<sup>th</sup> International Conference on Composite Materials held at Kyoto, Japan, July 9, 2007
- Topic Organizer, Materials Division, Symposium on the Design and Manufacturing of Composites for the ASME IMECE 2006, Chicago, IL November 2006
- Topic Organizer, Materials Division, Symposium on the Design and Manufacturing of Composites for the ASME IMECE 2005, Orlando, FL, November 5-11, 2005

- Co-chaired sessions at the ASME IMECE 2004 Conference, CA November 16-21, 2004
- Topic Organizer, Materials Division, Symposium on the Design and Manufacturing of Composites for the ASME IMECE 2004, Anaheim, CA November 16-21, 2004
- Co-chaired several technical sessions at ASME IMECE 2003 Conference in Washington D.C., November 17-21, 2003
- Chaired Technical Session on Automotive Composites at the 18<sup>th</sup> Annual American Society for Composites Conference, Gainesville, FL, October 20-22, 2003
- Topic Organizer, Materials Division, Symposium on the Design and Manufacturing of Composites for the ASME IMECE 2003, Washington D. C., November 16-21, 2003
- Co-chair, Session on Damage progression and mitigation in polymer composites, 14<sup>th</sup> International Conference on Composites Materials (ICCM-14), July 14-18, 2003, San Diego, CA
- Chaired a session at the annual ASME IMECE, 2001
- Chaired Technical sessions at the annual ASME IMECE 2000-2007
- Chaired Technical session at ICCE7, 2000
- Chaired annual ASME Congress and Exposition, 1999
- Member, Organizing Committee of International Symposium on Damage Tolerance, Materials Division, ASME International Mechanical Engineering Congress and Exhibition, Nov., 1999, USA

## **AFFILIATIONS**

- Fellow, American Society of Mechanical Engineers (ASME)
- Member, Society for the Advancement of Material and Process Engineering (SAMPE)
- Senior Member, American Institute for Aeronautics & Astronautics (AIAA)
- Member, American Society for Composites (ASC)
- Member, American Chemical Society (ACS)
- Member, Society for Experimental Mechanics (SEM)
- Member, Materials Research Society (MRS)

## **GRADUATE STUDENTS**

### **A. Completed (12 PhD, 37 MS)**

1. **Shatori Meadows:** (Dissertation): Synthesis of Epoxidized Soybean Oil (ESO) AND ITS Use in Fiber Reinforced Composites, *Ph. D, Materials Science and Engineering* (July 2018).
2. **Vertonica Powell Rose:** (Dissertation): Fabrication, Characterization and Biodegradability Studies of Flax Fiber Reinforced Biopolymer/Nanoparticle Composites, *Ph. D, Materials Science and Engineering* (July 2017).
3. **Dereca Hubbard:** (Dissertation): Synthesis and Characterization of Novel Phenolic Resin System Based on Lignin Extracted from Different Biomass Resources, *Ph. D, Materials Science and Engineering* (July 2016).

4. **Shatori Meadows** (Thesis): Influence of Different Peroxide Initiators on the Cure Behavior of Bio-based and Recycled Unsaturated Polyester Resins, M. S. Materials Science and Engineering, August 2015.
5. **Ekramul Islam** (Thesis): Low Velocity Impact Characterization of Carbon Fiber Reinforced Epoxy Composites Modified with MWCNT/Nanoclay Binary Nanoparticles Subjected to Environmental Conditioning, M. S. Materials Science and Engineering, (May 2015, defended on November 24, 2014).
6. **Vertonica Powell-Rose**: (Thesis), “Investigations on the Processing and Performance of Surface Modified Woven Flax Fiber Bio-Based Composites” MS in Materials Science and Engineering, August 2014.
7. **Tanjheel Mahdi**: (Thesis), Characterization of MWCNT/Nanoclay Binary Nanoparticles Modified Composites and Fatigue Performance Evaluation of Nanoclay Modified Fiber Reinforced Composites,” MS in Materials Science and Engineering, August 2014.
8. **Md. Nuruddin**: (Thesis), “Fabrication and Characterization of Polymer Nanocomposites Modified with Cellulose Nanofibers, Isolated From Nonwood Cellulosic Biomass,” MS in Materials Science and Engineering, August 2014.
9. **Reaz Chowdhury**: (Thesis), Self-Healing of E-glass/Epoxy Composites Using Microencapsulated Epoxy,” MS in Materials Science and Engineering, August 2014.
10. **Peter Owuor**: (Thesis), “Durability Studies of Hybrid Composites of E-Glass/Carbon Fibers in Different Solvents for Bridge Deck Panel Applications,” MS in Materials Science and Engineering, August 2014.
11. **Eldon Triggs** (Dissertation): Development and Life Cycle Analysis of Sustainable Natural Fiber Composites Using Novel Plant Oil Based Polyester Resins, *Ph. D, Materials Science and Engineering*, May 2014
12. **Alfred Tcherbi-Narteh** (Dissertation), Durability Assessment of Epoxy Matrix Properties Used in Fiber Reinforced Nanoclay-Epoxy Composites Exposed to UV Radiation, *Ph. D, Materials Science and Engineering* May 2013
13. **Dereca Watkins** (Thesis), Synthesis and Thermal Characterization of Modified Resole Phenolic Resins, M.S, Materials Science and Engineering, May 2013
14. **Nusrat Jahan**: (Thesis), Influence of Addition of Carboxyl Functionalized MWCNTs on Performance of Neat and Carbon Fiber Reinforced EPON 862, MS Mechanical Engineering, May 2013
15. **Gregory Strawder**: (Dissertation), Studies on the Effects of Density and Filler Type on the Behavior of Polyurethane Foam Composite Foam and Their Sandwich Constructions, *Ph. D Materials Science and Engineering*, May 2013
16. **Muhammad M. Rahman**: (Thesis), A Comprehensive Experimental Study Of E-Glass/Epoxy Composites Modified With Amino-Functionalized MWCNTs, MS Mechanical Engineering, August 2012, co-advised with Dr. Shaik Zainuddin
17. **Mahmud Salaam**: (Thesis), Fabrication and Characterization of Epoxy and Carbon/Epoxy Composites Modified with Functionalized Carbon/Epoxy Nanotubes, MS, Mechanical Engineering, August 2012
18. **Harika Moraju**: (Thesis), Studies on Fabrication and Characterization of Flax Fiber/Biopolymer Composites, MS, Mechanical Engineering, August 2011.
19. **Gregory Strawder**:(Thesis), Fabrication and Characterization of Wood Flour Reinforced Rigid Polyurethane Foam Composites, MS, Mechanical Engineering (May 2011, defended in December 2010)

20. **Anafo V Agubra:** (Thesis), Effect of Ultraviolet Radiation, Moisture, and Rain on Nanophased Glass Fiber Reinforced Composites, MS, Mechanical Engineering (May 2011, defended in December 2010)
21. **Amir Usher:** (Thesis), Enhancement in Thermal and Mechanical Properties of Polyurethane Foam Reinforced with Multi Walled Carbon Nanotubes, MS, Mechanical Engineering (May 2011, defended in August 2010)
22. **Rajib Barua:** (Thesis), Process Optimization of carbon/Nano fiber/Tubes Infused SC-1 Epoxy Resin Using Various Dispersion Techniques and Parameters, MS, Mechanical Engineering (May 2011, defended in July 2010)
23. **Jessie Mayo Jr.:** (Dissertation) Studies on Cutting and Fracture Mechanics of High Performance Fibers, *Ph. D, Materials Science and Engineering* (May 2010)
24. **Mary Ellen Moore:** (Dissertation) Synthesis and Characterization of Brominated Resole Phenolic Resins and Silicon-Based Resole Phenolic Nanocomposites, *Ph. D, Materials Science and Engineering* (May 2010)
25. **Tiffany Williams:** (Dissertation) Development of Bio-Based, Hazardous Air Pollutant Free Sheet Molding Compounds, *Ph. D, Materials Science and Engineering* (May 2010)
26. **Alfred Tcherbi-Narteh:** (Thesis) Durability Assessment of Carbon Fiber Reinforced Nanoclay Epoxy Composites Exposed to UV Radiation, MS, Mechanical Engineering (May 2010)
27. **Dangale Robinson:** (Dissertation) Process Optimization and Characterization of Low Density Polyurethane Foam and the performance of Nanoclay Infused Low Density Polyurethane Foam Sandwich Composites, *Ph. D, Materials Science and Engineering* (May 2009)
28. **Shaik Zainuddin:** (Dissertation) Durability Studies of Nanophased Composites Subjected to Different Environmental Conditions, *Ph. D , Materials Science and Engineering*, (May 2009)
29. **Harish Rao:** (Thesis) Stab Characterization of Shear Thickening Fluid and Thermoplastic Impregnated Ballistic Fabric Composites, M.S., Mechanical Engineering (May 2009)
30. **Md. Atiqur Bhuyan:** (Thesis) Studies on the Processing and Mechanical Characteristics of Carbon Nanofiber Infused Cellular Foams and their Sandwich Constructions, M.S., Mechanical Engineering (May 2009)
31. **Tamanna Rahman:** (Thesis) Mechanical and Thermal Properties of Amine Functionalized Multiwalled Carbon Nanotubes Epoxy Based Nanocomposites, M.S., Mechanical Engineering (May 2009)
32. **Md. Mazedul Islam:** (Thesis) Mechanical Characterization of 2D Braided Carbon/Epoxy/ Composites/Nanocomposites, M.S., Mechanical Engineering (May 2009)
33. **Merlin Theodore:** (Dissertation) Studies on the Kinetics and Characterization of Epoxy Resin Reinforced with A Variety of Functionalized Multiwall Carbon Nanotubes, *Ph. D, Materials Science Engineering* (May 2008)
34. **Sreedhar R. Poluchalla:** (Thesis) Stab Characterization of Neat and STF Impregnated Kevlar Fabrics Subjected to Room and Elevated Temperatures, M.S., Mechanical Engineering (May 2008)
35. **Orion Gebremedhin:** (Thesis) Processing and Performance of Nanoclay Infused EPON-828, M.S., Mechanical Engineering (May 2007)
36. **Jessie Mayo Jr.:** (Thesis) Stab Characterization of Novel Thermoplastic-Kevlar Composites, M.S., Mechanical Engineering, (May 2007)

37. **Srikrishnan Krishnamoorthy:** (Thesis) Thermal and Mechanical Characterization of Polyimide Based Carbon Fiber Composites, M.S., Mechanical Engineering, (May 2007)
38. **Mohammed Aleem:** (Thesis) Processing and Performance of Polyurethane/Nanoclay Nanocomposite Foam and Sandwich Construction, M.S., Mechanical Engineering, (May 2007)
39. **Farhan Chowdhury:** (Thesis) Processing and Performance Evaluation of Nanoclay Reinforced Carbon/Epoxy Composites, M.S., Mechanical Engineering, (May 2007)
40. **Anand Menon:** (Thesis) Microwave Processing and Characterization of Nanoclay Reinforced Epoxy, M.S., Mechanical Engineering (May 2007)
41. **Kunal Jain:** (Thesis) Environmental effects on the Low-Velocity Impact Response of Carbon/Epoxy Composites, M.S., Mechanical Engineering (July 2005)
42. **Manu K. John:** (Thesis) Microwave Assisted Processing and Characterization of Nanophased Polymeric Composites, M.S., Mechanical Engineering (July 2004)
43. **Mohammad Abdullah:** (Thesis) Processing and Characterization of Innovative Sandwich Composites, M.S., Mechanical Engineering (July 2004)
44. **Waliul Islam:** (Thesis) Dynamic Characterization of Carbon/Epoxy Composites at Elevated, Room and Sub-Zero Temperatures, M.S., Mechanical Engineering (May 2004)
45. **Madhu Adya:** (Thesis) Static and Dynamic Characterization of Stitched Carbon/Epoxy Laminates, M.S., Mechanical Engineering (August 2002)
46. **Mohammad Kamal Hossain:** (Thesis) Effects of Moisture and Temperature on High Strain Rate Behavior of S2-Glass/Vinyl Ester Composites, M. S., Mechanical Engineering (May 2002)
47. **Mohammed Rezaul Karim:** (Thesis) Static and Dynamic Characterization of Stitched S2-Glass/epoxy Laminates M.S., Mechanical Engineering (May 2002)
48. **Jacob Alexander:** (Thesis) Dynamic Characterization of Affordable Graphite/Epoxy Laminates, M.S., Mechanical Engineering, (May 2001)
49. **Vishwanath Patil:** (Project) Influence of Sensor Diameter on Smart Weave Monitoring and dynamic Characterization, M.S., Electrical Engineering, May 2001.

## **B. Current**

1. **Christina Young** (Thesis), Studies on the processing and property evaluation of bacterial cellulose based biocomposites, M. S. Materials Science and Engineering, (May 2019)
2. **Md. Sarower Hossain** (Thesis), High strain rate response of hybrid E-glass/carbon epoxy nanocomposites with binary nanoparticles (May 2019)
3. **Mohammad Al Ahsan** (Thesis), Flexural Studies on Hybrid Composites subjected to sea water conditioning (May 2019)

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Lewis, Yaseen Farooq, Amanee Salaam, Jonathan Thomas, Shifra Burton, Candace Jones, Aaron Peterson, Amir Usher, Robert Oxendine, Bryan Clayton, Christopher Miller, Shawn King, Corey Varner, Monica Tubbs, Alvin Percival, Erica Nelums, Alicia Carroll, Davina Booker.