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I. Education

- B.S., Mechanical Engineering (First Class), Obafemi Awolowo University, 1997
- M.S., Mechanical Engineering, Memorial University, 2001
- Ph.D., Mechanical Engineering, University of Manitoba, 2005
- Postdoctoral Fellow, Georgia Institute of Technology, 2008

II. Professional Positions

- 2019-Present, Professor of Mechanical Engineering, Howard University.
- 2015-2019, Associate Professor of Mechanical Engineering, Howard University.
- 2009-2015, Assistant Professor of Mechanical Engineering, Howard University.
- 2007-2008, Visiting Research Scholar, Georgia Institute of Technology

III. Research and Teaching Interests

Research Interest: Additive Manufacturing, Fatigue and Fracture Mechanics; Multiscale Modeling and Simulations; Constitutive Modeling and Finite element Applications; High Strain Rate Testing and Materials Characterization; and Structural Health Monitoring.

Teaching Interests: Materials science, Mechanical Design, Finite Element Analysis, Advanced Dynamics, Computational Mechanics, Mechanics of Composite Materials, Analysis and Design of aerospace Structures and Numerical Methods for Engineers.

IV. Fellowships, Honors and Awards

Engineering Society, Research, Education and Community Service Awards

- Fellow, American Society of Mechanical Engineers, 2017.
- Monarch Global Academy Certificate of Appreciation, awarded in recognition of continuing service and support for advancement of Education at Monarch Chartered Public Schools, 2016.
- Eminent Engineer, Tau Beta Pi Engineering Honor Society, 2014. Tau Beta Pi is the world's largest engineering honor society. Inducted as Eminent Engineer in recognition of outstanding contributions to Research and Education at Howard University.
- Natural Science and Engineering Research Council of Canada Postdoctoral Fellowship (awarded based on academic excellence, research potential, and communication, interpersonal and leadership abilities), 2006.
- Listed in Marquis Who is Who in America, 2011.

Institutional Awards

- Recipient, Faculty Incentive Program, awarded by the Office of the Provost, 2016.

- George David/United Technologies Corporation Endowed Assistant Professor (2012). Awarded for demonstrating the most impressive records of research and teaching accomplishments in the College of Engineering and Architecture at Howard University
- University of Manitoba Graduate Fellowship (2002-2004).
- Trans-Canada Pipeline Graduate Fellowship, University of Manitoba (2001/2002 & 2003/2004, one awarded per year, for significant research contributions).
- Edward R Toporeck Graduate Fellowship (2002-2003; for the top student in graduate school).
- University of Manitoba Student Union Fellowship for Academic Excellence (2002/2003).
- Fellow of the School of Graduate Studies, Memorial University of Newfoundland, (Awarded in recognition of outstanding academic performance and academic excellence, May 2001).
- Memorial University Graduate Studies and Research Fellowship, Memorial University of Newfoundland, Canada (1999- 2001).
- Dean's honor lists, Obafemi Awolowo University, Nigeria (1992-1997).
- B.S.M.E. (First Class Honor Graduate), Obafemi Awolowo University, Nigeria.

V. Selected Publications

Books and Book Chapters

1. R. M. Mahamood, E. T. Akinlabi, **M.G. Owolabi** and K. O. Abdulrahman (2018). *Advanced Manufacturing of Compositionally Graded Composite Materials: An Overview*. Hierarchical Composite Materials - Materials, Manufacturing, Engineering. Published by De Gruyter. Kaushik Kumar and J Paulo Davim (Editors).
2. Rasheedat M. Mahamood, Esther T. Akinlabi and **Moses G. Owolabi** (2017). *The Laser Metal Deposition Process for Product Remanufacturing*: In *Advanced Manufacturing Technologies* Kapil Gutta (Ed.). Springer.
3. Odoh D.O., **Owolabi G.M.**, Odeshi A.G. *Dynamic Deformation Behavior of AA2099-T8 under Compression and Torsion Loads*, in *Dynamic Behavior of Materials*, Bo Song, Daniel Casem, Jamie Kimberley - Editors, pp. 1-12, 2014.
4. **G.M. Owolabi** and M.N.K. Singh. *Notch-Root Elastic-Plastic Strain-Stress in Particulate Metal Matrix Composites subjected to general loading conditions*, in *Fatigue and Fracture Mechanics: 34th Volume*, ASTM STP 1461. 573-588, 2005.

Refereed Journal Articles

1. Kenneth Looby, Nadir Yilmaz, Peter Omoniyi, Abimbola Ojomo, Mehdi Amiri, Olu Bamiduro, **Gbadebo Owolabi** (2006). *Advances in Additively Manufactured Multi-Principal Element Alloys for Turbine Blades in Next Generation Jet Engines*. *Aerospace* 2026, 13(5), 395; <https://doi.org/10.3390/aerospace13050395>. 29 pages.
2. Peter Omoniyi, Samuel Onimpa Alfred, Kenneth Looby, Olu Bamiduro, Akindele Odeshi, Mehdi Amiri, **Gbadebo Owolabi** (2026). *Corrosion Behavior of Haynes® 233 Manufactured by Wire Arc Additive Manufacturing in 3.5 wt%. NaCl*. *Journal of Bio- and Tribo-Corrosion*, 12:20, 15 pages.
3. Peter Omoniyi, Samuel Onimpa Alfred, Kenneth Looby, Olu Bamiduro, Mehdi Amiri, **Gbadebo Owolabi** (2025). *Corrosion Behavior of Additively Manufactured GRX-810 Alloy in 3.5 wt.% NaCl*. *Materials*, 14 pages.

4. P. Parameswaran, T. Ram Prabhu, **Gbadebo Owolabi**, D. Kesavan & R. Jayaganthan (2025). *Compression Behavior and Fatigue Strength of Additively Manufactured Ti6Al4V Strut-Based Lattice Structures: A Review*. Journal of Materials Engineering and Performance. 16 pages. <https://doi.org/10.1007/s11665-025-11916-w>
5. Samuel Onimpa Alfred, Peter Omoniyi, **Gbadebo Owolabi**, Mehdi Amiri (2025). *Microstructure and Mechanical Properties of Wire Arc Additively Manufactured Haynes 233*, Materials Science & Engineering A, 937,148395. 13 pages.
6. Adewale Olasumboye, Peter Omoniyi and **Gbadebo Owolabi** (2024). *High Strain Rate Deformation of Heat-Treated AA2519 Alloy*, Materials, 17 (5823), 25 pages.
7. Melody Chepkoech, Peter Omoniyi, and **Gbadebo Owolabi** (2024). *Fatigue Response of Additive-Manufactured 316L Stainless Steel*. Metals, 14 (988), 20 pages.
8. Melody Chepkoech, **Gbadebo Owolabi**, Warner Grant (2024). *Investigation of Microstructures and Tensile Properties of 316L Stainless Steel Fabricated Via Laser Powder Bed Fusion*. Materials, 17 (913), 25 pages.
9. Amit Joshi, K. K. Yogesha, Sunil Chamoli, R. Jayaganthan, **G. M. Owolabi** (2023). *Fatigue Crack Growth Behaviour of Al 2014 Alloy Subjected to Cryogenic Rolling and Post Rolled Annealing*. Metallic Materials (Kovové Material) Vol. 61(5), 285-305.
10. Ravi Kumar Singh, S.S.S. Guraja, O.O. Ajide, **G.M. Owolabi**, Nikhil Kumar (2023). *Investigation of initial metallurgical factors on the dynamic impact response and adiabatic shear bands formation of the 6061 Al alloy*. Materials Science and Engineering A, Vol. 865, 144636.
11. Nikhil Kumar, R. Jayaganthan, **G.M. Owolabi** (2022). *Grain refinement mechanism in 6082 Al alloy fabricated by cryo-multiaxial forging*. Materials Science & Engineering A 833 (2022) 142518, 10 pages.
12. Arielle Miller, Grant Warner, **Gbadebo Owolabi** (2021). *Mechanical Performance and Mesostucture Analysis of Proton Irradiated Fused Filament*. Journal of Materials and Engineering Performance. Volume 30(9) September 2021, 6673–6690.
13. A. Azimi, **G. Owolabi**, H. Fallahdoost, N. Kumar, G. Warner (2019), *High Strain Rate Behavior of Ultrafine Grained AA2519 Processed via Multi Axial Cryogenic Forging*, Metals, 9(2), 115.
14. 2. A. Azimi, **G. Owolabi**, H. Fallahdoost, N. Kumar, H. Whitworth (2019), *Microstructure and Quasi-Static Mechanical Behavior of Cryoforged AA2519 Alloy*, Materials Sciences and Applications, 10(2), 137-149.
15. 3. A. Azimi, **G. Owolabi**, H. Fallahdoost, N. Kumar, G. Warner (2019), *Dynamic Failure Investigation in Ultrafine Grained AA2219: Mechanical and Microstructural Analysis*, Metals and Materials International, 25, 1-12.
16. 4. K. Hibbert, G. Warner, C. Brown, O. Ajide, **G. Owolabi**, A. Azimi (2019), *The Effects of Build Parameters and Strain Rate on the Mechanical Properties of FDM 3D-Printed Acrylonitrile Butadiene Styrene*, Open Journal of Organic Polymer Materials, 9, 1-27.
17. A. Azimi, **G. Owolabi**, H. Fallahdoost, N. Kumar, H. Whitworth, G. Warner (2019), *AA2219 Aluminum Alloy Processed via Multi-Axial Forging in Cryogenic and Ambient Environments*, Journal of Materials Science Research, 2, 1-9.
18. Oluwakayode Bamiduro, **Gbadebo Owolabi**, Muluget A. Haile, Jaret C. Riddick (2018), *The influence of load direction, microstructure, raster orientation on the quasi-static response of fused deposition modeling ABS*, Rapid Prototyping Journal, 1-11.

19. N. Kumar, **G.M. Owolabi**, R. Jayaganthan, S. Goel (2018). *Correlation of Fracture Toughness with Microstructural Features for Ultrafine Grained 6082 Al Alloy*. *Fatigue and Fracture of Engineering Materials and Structures*. 41 (9), 1884-1889.
20. N. Kumar, S. Goel, R. Jayaganthan, **G.M. Owolabi** (2018). *The influence of metallurgical factors on low cycle fatigue behavior of ultrafine grained 6082 Al alloy*. *International Journal of Fatigue*. 110,130-143.
21. N. Kumar, **G.M. Owolabi**, R. Jayaganthan, O.O. Ajide (2018). *Plane stress fracture toughness of cryorolled 6082 Al alloy*. *Theoretical and Applied Fracture Mechanics*. 95, 28-41.
22. **Gbadebo Owolabi**, Temitayo Daramola, Nadir Yilmaz, Horace Whitworth, Ahmet Zeytinchi (2018). *Mechanical Properties of Ultrafine Grain 2519 Aluminum Alloy*. The Minerals, Metals & Materials Society, TMS 2018 147th Annual Meeting & Exhibition Supplemental Proceedings, 943-950.
23. **Gbadebo Owolabi**, Akindele Odeshi, Paul Ragaller, Alexander Sappok (2018). *Effects of regenerative mechanical vibration on the mechanical integrity of ceramic diesel particulate filters*. *Journal of Advanced Ceramics*, 7(1), 5-16.
24. A.T. Olasumboye, **G. M. Owolabi**, A. G. Odeshi, N. Yilmaz, A. Zeytinci (2018). *Dynamic response and microstructure evolution of AA2219-T4 and AA2219-T6 aluminum alloys*. *Journal of Dynamic Behavior of Materials*, Volume 4, Issue 2, 162-178.
25. Adewale Olasumboye, **Gbadebo Owolabi**, Akindele Odeshi, Ahmet Zeytinci, Nadir Yilmaz. (2018). *Dynamic behavior of AA2519-T8 aluminum alloy in compression*. *Journal of Dynamic Behavior of Materials*, Volume 4, Issue 2, pp 151-161.
26. Mutiu F. Erinosh, Esther T. Akinlabi, Mukunap Mubiayi, **Gbadebo Owolabi** (2017). *Influence of laser scanning speed on the rotary wear behavior of deposited Ti6Al4V alloy and Cu*. *International Journal of Advances in Science Engineering and Technology*, ISSN(p): 2321 –8991, ISSN(e): 2321–9009, 5(4), 57-60.
27. Mutiu F. Erinosh, Esther T. Akinlabi, Oluwagbenga Johnson, **Gbadebo Owolabi** (2017). *Effect of scanning speed on material characterization of laser deposited titanium alloy and copper*. *International Journal of Advances in Science Engineering and Technology*, ISSN(p): 2321 –8991, ISSN (e): 2321–9009, 5(4), 53-56.
28. **G.M. Owolabi**, D.T. Bolling, and A.G. Odeshi, H.A. Whitworth, N. Yilmaz, A. Zeytinci (2017). *The effects of specimen geometry on the plastic deformation of AA 2219-T8 aluminum alloy under dynamic impact loading*. *Journal of Materials Engineering and Performance*, 26(12), 5837-5846.
29. Sheriff Adefemi Adekanye, Rasheedat Modupe Mahamood, Esther Titilayo Akinlabi and **Moses Gbadebo Owolabi** (2017). *Additive Manufacturing: The Future of Manufacturing*. *Journal of Materials and Technology*, 51(5), 709-715.
30. Mutiu F. Erinosh, Esther T. Akinlabi, Sisa Pityana, **Gbadebo Owolabi** (2017). *Laser surface modification of Ti6Al4V-Cu for Improved Microhardness and Wear Resistance Properties*, *Journal of Materials Research*, 20(4): 1143-1152.
31. Rasheedat M. Mahamood, Esther T. Akinlabi and **Moses G. Owolabi** (2017). *The Laser Metal Deposition Process for Product Remanufacturing*: In *Advanced Manufacturing Technologies, Modern Machining, Advanced Joining, Sustainable Manufacturing*, 267-291.
32. Rasheedat M. Mahamood, Esther T. Akinlabi and **Moses G. Owolabi** (2017). *Effect of Laser Power and Powder Flow Rate on Dilution Rate and Surface Finish Produced during*

- Laser Metal Deposition of Titanium Alloy*, 2017 8th International Conference on Mechanical and Intelligent Manufacturing Technologies (ICMIMT), IEEE Explore Digital library, 6-10.
33. **G.M. Owolabi**, D.T. Bolling, A.A. Tiamiyu, R. Abu, A.G. Odeshi, H.A. Whitworth (2016). *Shear Strain Localization in AA 2219-T8 Aluminum Alloy at High Strain Rates*. Materials Science and Engineering A, 655, 212-220.
 34. **Gbadebo Owolabi**, Alex Peterson, Ed Habtour, Jaret Riddick, Michael Coatney, Adewale Olasumboye*, Denzell Bolling* (2016), *Dynamic response of acrylonitrile butadiene styrene under impact loading*. International Journal of Mechanical and Materials Engineering, 11: 3, 1-8.
 35. **Gbadebo Owolabi**, Oluwamayowa Okeyoyin, Adewale Olasumboye, Horace Whitworth (2016). *A New Approach to Estimating the Fatigue Notch Factor of Ti-6Al-4V Components*. International Journal of Fatigue, 82, 29-34.
 36. **Gbadebo Owolabi**, Oluwamayowa Okeyoyin, Oluwakayode Bamiduro, Adewale Olasumboye, Horace Whitworth (2015). *The Effects of Notch Size and Material Microstructure on the Notch Sensitivity Factor for Notched Components*. Engineering Fracture Mechanics, 145, 181-196.
 37. **G.M. Owolabi** and H.A. Whitworth (2014). *Modeling and Simulation of Microstructurally Small Crack Formation and Growth in Notched Nickel-base Superalloy Component*. Journal of Materials Science and Technology, 30 (3), 203-212.
 38. Odoh D.O., **Owolabi G.M.**, Odeshi A.G., (2014). *Dynamic Deformation Behavior of AA2099-T8 under Compression and Torsion Loads*, Dynamic Behavior of Materials, 1:1-12.
 39. **Gbadebo Owolabi**, Oluwamayowa Okeyoyin, Oluwakayode Bamiduro, Horace Whitworth (2014). *Extension of a Probabilistic Mesomechanics Based Model for Fatigue Notch Factor to Titanium Alloy Components*. Procedia Materials Science, 3, 1860-1865.
 40. **Gbadebo Owolabi**, Oluwamayowa Okeyoyin, Oluwakayode Bamiduro, Horace Whitworth (2014). *Fatigue Strength Reduction Factor for Polycrystalline Nickel Base Superalloy with and without Non-Metallic Inclusion*. Procedia Engineering, 74, 297-302.
 41. **Gbadebo Owolabi**, Daniel Odoh, Alex Peterson, Akindele Odeshi, Horace Whitworth (2013). *Measurement of the Deformation of Aluminum Alloys under High Strain Rates using High Speed Digital Cameras*. World Journal of Mechanics, 3, 112-121.
 42. **Gbadebo Owolabi**, Daniel Odoh, Akindele Odeshi, Horace Whitworth (2013). *Occurrence of Dynamic Shear Bands in AISI 4340 Steel under Impact Loads*. World Journal of Mechanics, 3, 139-145.
 43. Daniel Odoh, **Gbadebo Owolabi**, Akindele Odeshi, Horace Whitworth (2013). *Dynamic Shear band Formation in AISI 4340 Steel under Impact Loads: Modeling and Experiment*. Acta Metallurgica Sinica, 26 (4), 378-384.
 44. Okeyoyin, O.A., **Owolabi, G.M.** (2013). *Application of Weakest Link Probabilistic Framework for Fatigue Notch Factor to Turbine Engine Materials*. World Journal of Mechanics, 3, 237-244.
 45. **G.M. Owolabi** and H.A. Whitworth (2013), *Microstructurally Small Crack Formation and Growth in Notched Turbine Engine Materials*, JP Journal of Solid and Structures. Vol. 7(1), pp. 1-26.
 46. **G.M. Owolabi** and H.A. Whitworth (2012). *On the Concept of Fatigue Notch Factor*. JP Journal of Solids and Structures, 6(2-3), 63-68.

47. **Gbadebo Owolabi**, Benedict Egboiyi*, Li Shi* and Horace Whitworth (2011). *Microstructure-Dependent Fatigue Damage Process Zone and Notch Sensitivity Index*. International Journal of Fracture. 170, 159-173.
48. **G.M. Owolabi**, L. Shi, and H. Whitworth (2011). *A Micromechanics-Based Fatigue Damage Process Zone*. Procedia Engineering, 10, 496-505.
49. **G. Owolabi**, B. Egboiyi, L. Shi, and H. Whitworth (2011). *A Microstructure-Dependent Fatigue Damage Process Zone*. JP Journal of Solids and Structures, 5 (1), 31-47.
50. **G.M. Owolabi**, R. Prasannavenkatesan and D. L. McDowell (2010). *Probabilistic Framework for a Microstructure-Sensitive Fatigue Notch Factor*. International Journal of Fatigue, 32(8), 1378-1388.
51. **G. M. Owolabi**, M.N. Bassim, J.H. Page, and M.G. Scanlon (2008). *The Influence of Specific Mechanical Energy on the Ultrasonic Characteristics of Extruded Dough*. Journal of Food Engineering, 86(3), 202-206.
52. **G.M. Owolabi**, A.G. Odeshi, M.N.K. Singh, and M.N. Bassim (2007). *Dynamic Shear Band Formation in Aluminum 6061 and Aluminum 6061-T6/Al₂O₃ Composites*. Materials Science and Engineering A, 457(1-2), 114-119.
53. **G.M. Owolabi** and M.N.K. Singh (2007). *Extension of a Multi-Surface Plasticity Model to Two-Phase Materials*. International Journal of Solids and Structures. 44 (3-4), 1086-1098.
54. A.G. Odeshi, **G.M. Owolabi**, and M.N. Bassim (2007). *Effects of Particulate Reinforcement and Strain-Rates on Deformation and Fracture Behavior of Aluminum 6061-T6 under High Velocity Impact*, Materialwissenschaft und Werkstofftechnik (Materials Science & Engineering Technology), 38 (2), 66-69.
55. **Gbadebo Owolabi** and Meera Nand Kaur Singh (2007). *Experimental Evaluation of Two Multiphase Constitutive Models Applicable to Metal Matrix Composites under Non-Proportional Variable Amplitude Loading*. Journal of Mechanics of Materials and Structures, 2(1), 131-148.
56. A.G. Odeshi, **G.M. Owolabi**, M.N.K. Singh, M.N. Bassim (2007). *Deformation and Fracture Behavior of Metal Matrix Composites during Dynamic Mechanical Loading*, Metallurgical and Materials Transaction A, 38A, 2674-2680.
57. **G.M. Owolabi** and M.N.K. Singh (2006). *A Comparison between Two Analytical Models that Approximate Notch-Root Elastic-Plastic Stress-Strain Components in Two-Phase Particle-Reinforced Metal Matrix Composites under Multiaxial Cyclic Loading: Theory*. International Journal of Fatigue, 28, 910-917.
58. **G.M. Owolabi** and M.N.K. Singh (2006). *A Comparison between Two Analytical Models that Approximate Notch-Root Elastic-Plastic Stress-Strain Components in Two-Phase Particle-Reinforced Metal Matrix Composites under Multiaxial Cyclic Loading: Experiment*. International Journal of Fatigue, 28, 918-925.
59. **G.M. Owolabi** and M.N.K. Singh (2006). *Nonlinear Energy-Based Relations and Numerical Procedure for Multiaxial Local Analysis*. International Journal of Solids and Structures, 43(17), 5132-5146.
60. **G.M. Owolabi** and M.N.K. Singh (2005). *Notch-Root Elastic-Plastic Strain-Stress in Particulate Metal Matrix Composites (PMMCs) subjected to General Loading Conditions*. Journal of ASTM International, 2(6), 129-144.

61. **G.M. Owolabi**, A.S.J Swamidas and R Seshadri (2003). *Crack Detection in Beams using Changes in Amplitudes and Frequencies of Frequency Response*. Journal of Sound and Vibration, 265(1), 1-22.

Refereed Conference Proceedings and Presentations

1. M. Chepkoech, **G.M. Owolabi**, G. Warner. Microstructures and Tensile Properties of 316L Stainless Steel Fabricated Via Laser Powder Bed Fusion. Metal Powder Industries Federation, Las Vegas, Nevada, June 18-21, 2023.
2. O. J. Ajao, **G. M. Owolabi**, H.A. Whitworth, O. Scott-Emuakpor, “Dynamic Impact Response of Ultrafine Grained AA5052 Aluminum Alloy Processed Via Multiaxial Forging at Cryogenic Temperature”, Proceedings of International Conference on Innovative Engineering Technologies (ICIET-20), New York, December 2020.
3. **Gbadebo Owolabi**, Temitayo Daramola, Nadir Yilmaz, Horace Whitworth, Ahmet Zeytinchi (2018). *Mechanical Properties of Ultrafine Grain 2519 Aluminum Alloy*. TMS Annual Meeting & Exhibition. Dynamic Behavior of Materials VIII, March 2018, Phoenix Convention Center, Phoenix Arizona.
4. **Gbadebo Owolabi**, Adewale Olasumboye, Temitayo Daramola, Horace Whitworth (2018). *Dynamic Response of AA2519-T8 Aluminum Alloy under High Strain Rate*. 2018 TMS Annual Meeting & Exhibition. Dynamic Behavior of Materials VIII, March 2018, Phoenix Convention Center, Phoenix Arizona.
5. **G. Owolabi**, M. Thom, A. Odeshi, H. Whitworth, N. Yilmaz, and A. Zeytinci (2017). *A Comparison of the fatigue response of three different AA 2000 series of aluminum alloy*. International Conference on Structural Integrity and Durability 2017 and 4th ESIS Summer School, held in Dubrovnik, Croatia, from 14th to 18th August 2017
6. Rasheedat M. Mahamood, Esther T. Akinlabi and Moses **G. Owolabi** (2017). *Effect of Laser Power and Powder Flow Rate on Dilution Rate and Surface Finish Produced during Laser Metal Deposition of Titanium Alloy*, 8th International Conference on Mechanical and Manufacturing Technologies, Cape Town South Africa, February 3 -6, 2017.
7. Paul Ragaller, Alexander Sappok, Leslie Bromberg, **Gbadebo Owolabi**, Akindele Odeshi (2016). *The effect of the vibration-based ash cleaning on the mechanical properties of ceramic diesel particulate filters*, Proceedings of the ASME 2016 Internal Combustion Fall Technical Conference, ICEF2016, Oct 9-12, 2016, Greenville, SC, USA, 12 pages, (on DC-ROM)
8. Denzell Bolling, Adewale Olasumboye, **Gbadebo Owolabi** (2015), *Dynamic Failure of Aluminum Alloy 2219-T8 under High Strain Rate*, Proceedings of the ASME International Mechanical Engineering Congress and Exposition, IMECE-2015, November 13-19, 2015, Houston, Texas, USA: 6 pages, (on DC-ROM)
9. Alex Peterson, Denzell Bolling, Adewale Olasumboye, Ed Habtour, Jaret Riddick, Michael Coatney, **Gbadebo Owolabi** (2015), *Dynamic Behavior of Acrylonitrile Butadiene Styrene under Impact Loads*, Proceedings of the ASME International Mechanical Engineering Congress and Exposition, IMECE-2015, November 13-19, 2015, Houston, Texas, USA: 9 pages, (on DC-ROM)

10. O. Okeyoyin and **G.M. Owolabi** (2014). *A new fatigue notch factor for titanium alloy components*. ASME International Mechanical Engineering Congress and Exposition. November 14-20, Montreal, Canada.
11. Okeyoyin, O.A., **Owolabi, G.M.** (2013). *Application of weakest link probabilistic framework for fatigue notch factor to turbine engine materials*. 13th International Conference on Fracture, Beijing China, June 16-21, 2013.
12. Okeyoyin, O.A., **Owolabi, G.M.** (2013), *Effects of nonmetallic inclusions on the fatigue notch factor of polycrystalline nickel-base superalloy*. Proceedings of the 2013 International Mechanical Engineering Congress and Exposition, Nov. 15-21, 2013, San Diego, CA, USA. Paper #: IMECE2013-63230
13. Odoh, D.O., **Owolabi G.M.** (2013), Odeshi A.G. *Dynamic deformation behavior of AA2099-T8 under compression and torsion loads*. 2013 SEM Annual Conference and Exposition of Experimental and Applied Mechanics; Lombard, Illinois June 3-6, 2013.
14. **G.M. Owolabi**, D. Odoh, A. Odeshi, and H.A. Whitworth (2012). *Full field measurements of the dynamic response of AA6061-T6 aluminum alloy under high strain rate compression and torsion loads*. Proceedings of the ASME International Mechanical Engineering Congress and Exposition, IMECE-2012, November 5-11, 2012, Houston, Texas, USA: 9 pages, paper ID#: IMECE2012-89089.
15. **G.M. Owolabi**, D. Odoh, A. Odeshi, and H.A. Whitworth (2012). *Modeling and simulation of adiabatic shear bands AISI 4340 steel under impact loads*. Proceedings of the ASME International Mechanical Engineering Congress and Exposition, IMECE-2012, November 5-11, 2012, Houston, Texas, USA: 8 pages, paper ID#: IMECE2012-89084.
16. L. Shi, **G.M. Owolabi**, and R. Prasannavenkatesan (2012). *Microstructurally small crack formation and growth in notched component with non-metallic inclusions*. Proceedings of The Canadian Society for Mechanical Engineering International Congress 2012 CSME International Congress 2012 June 4-6, 2012, Winnipeg, Manitoba, Canada, 7 pages.
17. **G.M. Owolabi**, B. Egboiyi, H.A. Whitworth, and O. Aluko (2012). *On fatigue strength reduction factor, state-of-the-art*. Proceedings of the ASME International Mechanical Engineering Congress and Exposition, IMECE-2012, November 5-11, 2012, Houston, Texas, USA: 10 pages, paper ID#: IMECE2012-85893.
18. **G.M. Owolabi**, L. Shi, and B. Egboiyi (2012). *The influence of inclusions on microstructurally small crack formation and growth from notch root*. Proceedings of the ASME International Mechanical Engineering Congress and Exposition, IMECE-2012, November 5-11, 2012, Houston, Texas, USA, 10 pages, paper ID#: IMECE2012-89089.
19. O. Aluko, H.A. Whitworth, and **G.M. Owolabi** (2012). *Effect of friction on contact stress distribution in pin-loaded orthotropic plates*. Proceedings of the ASME International Mechanical Engineering Congress and Exposition, IMECE-2012, November 5-11, 2012, Houston, Texas, USA: 5 pages, Paper ID#: IMECE2012-86913.
20. **G.M. Owolabi** and H.A. Whitworth. *A new extreme-value probabilistic framework for predicting fatigue crack initiation life of notched components*. ASME International Mechanical Engineering Congress and Exposition, IMECE2011, November 11-17, 2011, Denver, Colorado, USA: 10 pages.

21. **G.M. Owolabi**, B. Egboiyi, L. Shi, and H Whitworth (2011). *A new probabilistic method for microstructure-dependent fatigue notch factor*. Proceedings of the 23rd Canadian Congress of Applied Mechanics (CANCAM'11), June 5-9, 2011, Vancouver, BC, Canada, on CD-ROM: p. 353-356.
22. **G.M. Owolabi**, L. Shi, B. Egboiyi, and H. Whitworth (2011). *A statistical method for predicting the probability of formation of microstructurally small crack for notched components*. Proceedings of the 23rd Canadian Congress of Applied Mechanics (CANCAM'11), June 5-9, 2011, Vancouver, BC, Canada, on CD-ROM: p. 451-454.
23. **G.M. Owolabi** and D.L. McDowell (2009). *Microstructure-sensitive fatigue design for notched components*. Proceedings of the 2009 International Mechanical Engineering Congress and Exposition, Nov. 13-29, 2009, Lake Buena Vista, Florida. Volume 11: Mechanics of Solids, Structures and Fluids; 1-10, Paper #: IMECE2009-10860.
24. **A.G. Odeshi**, G.M. Owolabi, M.N.K. Singh, and M.N. Bassim (2007). *Deformation and fracture behavior of metal matrix composites during dynamic mechanical loading*. Presented at TMS 2007, 136th Annual Meeting & Exhibition, Feb. 25-March 1, 2007, Orlando, Florida, USA.
25. **G.M. Owolabi**, M.N.K. Singh, and M.N. Bassim (2006). *A model for predicting local parameters in heterogeneous materials under cyclic loads with unequal frequencies*. Anisotropy, Texture, Dislocations and Multiscale Modeling in Finite Plasticity, Viscoplasticity and Metal Forming, Proceedings of Plasticity 06, the 12th International Symposium on Plasticity and its Current Applications, July 17-22, 2006, Halifax, Nova Scotia, Canada. Editors: Akhtar S. Khan & Rehan Kazmi, ISBN 0-9659463-6-3: p. 355-357.
26. **A.G. Odeshi**, G.M. Owolabi, M.N.K. Singh, and M.N. Bassim (2006). *Plastic deformation of ceramic particle reinforced aluminum-based metal matrix composite at high strain-rates*. In Serial: Materials and their Engineering Applications, Issue No. 024 (ISSN 1439-1597) & Conference Proceedings: 9th Materials Engineering Colloquium. Chemnitz, Germany, ISBN-10 3-0019101-1, ISBN-13 978-3-00-019101-5.: p. 19-24.
27. **G.M. Owolabi** and M.N.K. Singh (2005). *Experimental evaluation of an energy-based approach for predicting local ratcheting in particulate metal matrix composites (PMMCs)*. Proceedings of the 20th Canadian Congress of Applied Mechanics, May 30-June 2, McGill University, Montreal, Canada. 1: p. 473-474.
28. **G.M. Owolabi** and M.N.K. Singh (2003). *A comparison between two models that predict the elastic-plastic behavior of PMMCs materials under multiaxial fatigue type loading*. Proceedings of the 2003 International Mechanical Engineering Congress and Exposition, Nov. 16-23, 2003, Washington D.C., USA, IMECE 2003. Paper #: 42001: 10 pages, on CD ROM.
29. **G.M. Owolabi** and M.N.K. Singh (2003). *Notch-root elastic-plastic strain-stress in PMMC subjected to general loading conditions*. Second International ASTM/ESIS Symposium on Fatigue and Fracture, Nov. 16-21, 2003, Tampa, Florida, USA.
30. **G.M. Owolabi** and M.N.K. Singh (2003). *Elastic-plastic behavior of notched PMMCs under multiaxial loading*. Proceedings of the 19th Canadian Congress of Applied Mechanics, University of Calgary, Alberta, Canada, June 01-05, 2003. 1: p. 132-133.

31. **G.M. Owolabi**, A.S.J. Swamidas, and R. Seshadri (2001). *Crack detections in beams using modal analysis*. Proceedings of the 18th Canadian Congress of Applied Mechanics, Memorial University of Newfoundland, St. John's, Newfoundland, Canada, June 03-06, 2001. 1: pp. 69-70.

Non-refereed Publications

1. Okeyoyin, O.A., **Owolabi, G.M.** (2013), *Application of Weakest Link Probabilistic Framework for Fatigue Notch Factor to Turbine Engine Materials*. 13th International Conference on Fracture, Beijing China, June 16-21, 2013.
2. Okeyoyin, O.A., **Owolabi, G.M.** (2013), *Effects of Nonmetallic Inclusions on the Fatigue Notch Factor of Polycrystalline Nickel-base Superalloy*. Proceedings of the 2013 International Mechanical Engineering Congress and Exposition, Nov. 15-21, 2013, San Diego, CA, USA. Paper #: IMECE2013-63230.
3. Odoh D.O., **Owolabi G.M.**, Odeshi A.G., (2013), *Dynamic deformation behavior of AA2099-T8 under compression and torsion loads*, 2013 SEM Annual Conference and Exposition of Experimental and Applied Mechanics, Lombard, Illinois June 3-6, 2013.

Other Reports

- G.M. Owolabi: Acquisition of Ultra-High-Speed Deformation and Strain Measurement System, Final Report. Department of War, August 2025.
- G.M. Owolabi: Extending Advanced Manufacturing Post-Processing Activities through Acquisition of an Additive Manufacturing System Suite, Final Report. Army Research Office, May 2023.
- G.M. Owolabi: Optimizing dynamic behavior of ultrafine grain alloys. Final Report, Department of Defense, August 2022.
- G.M. Owolabi: Dynamic Failure of Aluminum-Based and Polymer Matrix Composites at High Strain Rates. Army Research Office, Final Report, August 2016.
- G.M. Owolabi: Microstructure-Sensitive Fatigue Design of Notched Components. Final Report, Department of Defense, October 2016.
- G.M. Owolabi: Microstructure-Sensitive Fatigue Design of Safety-Critical Components. Final Report for the Summer Faculty Fellowship 2011, Office of the Provost, February 2012.
- G.M. Owolabi: Scanning electron microscope: microstructural studies of nickel-base superalloy Inconel 718. Technical Report, Department of Mechanical & Manufacturing Engineering, University of Manitoba, 2002.

VI. Teaching and Advising

A. Courses Taught

1. MEEG 209 - Materials Science (3 cr, Spring 2014, Fall 2015, Spring 2016, Spring 2017, Spring 2018, Spring 2019, Spring 2020, Spring 2021, Spring 2022, spring 2023, spring 2024, spring 2025, spring 2026)

2. MEEG 416 - Aerostructure (3 cr., Fall 2017, spring 2023)
3. MEEG 310 - Mechanical Design I (3 cr each, fall 2011, Fall 2012, Fall 2013, Fall 2014, Spring 2015, Fall 2015, Fall 2016, Fall 2021, Summer 2020, Summer 2021, Summer 2022, Summer 2023, Fall 2024, Fall 2026)
4. MEEG 512 - Application of Continuum Mechanics (3 cr, Spring 2016, Spring 2017, Spring 2018, Spring 2019, Spring 2020, Spring 2021, Spring 2022, spring 2023, spring 2024, spring 2025, spring 2026)
5. MEEG 311 - Mechanical Design II (3 cr each, Spring 2015, Summer 2020, Summer 2021, Summer 2022, Summer 2023)
6. MEEG 445 - Undergraduate Research I (3 cr, fall 2011, Fall 2012, Fall 2013, Fall 2014, Fall 2015, Fall 2016, Fall 2017, Fall 2018, Fall 2019, Fall 2020, Fall 2021, Fall 2022, Fall 2023, Fall 2024)
7. MEEG 446 - Undergraduate Research II (3 cr, Spring 2012, Spring 2013, Spring 2014, Spring 2015, Spring 2016, Spring 2017, Spring 2018, Spring 2024)
8. MEEG 309 - Materials Science (3 cr; Fall 2011, Spring 2013)
9. MEEG 505 - Advanced Dynamics I (3 cr, Spring 2011, Fall 2013, Fall 2018, Fall 2019, Fall 2020, spring 2023)
10. MEEG 534 - Finite Element Analysis (3 cr; Fall 2011, Fall 2014)
11. MEEG 519 - Graduate Seminar (1 cr, Fall 2013)
12. MEEG 524 - Special Topics in Solid Mechanics (3 cr, Fall 2014, Spring 2016, Spring 2016, spring 2020)
13. MEEG 315 - Experimentation I (2 cr, Spring 2010, Spring 2011)

B. Curriculum Development and other Pedagogical Activities

- i. Mechanics of Composite (Graduate level course)
- ii. MEEG 500: Directed Research for MS and PhD students.
- iii. MEEG 600: Directed Research for PhD students.

C. Theses: Primary Advisor

C1. Master Students

1. **Li Shi.** Microstructurally Small Crack Growth Modeling in Notched Components with Non-Metallic Inclusions. (MEng-Completed in Spring 2012).

2. **Benedict Egboiyi.** Extreme-Value Probabilistic Method for Estimating Microstructure-Dependent Fatigue Notch Factor. (MEng-Completed in Spring 2012).
3. **Daniel Odoh.** Full Field Measurements of the Dynamic Response of AA6061-T6 Aluminum Alloy under High Strain Rate Compression and Torsion Loads (MEng-Completed in Fall 2012).
4. **Mayowa Okeyoyin.** Application of Weakest Link Probabilistic Framework for Fatigue Notch Factor to Aero Engine Materials (MEng-Completed in Fall 2013).
5. **Rufus Alexander Peterson.** Dynamic Failure of Aluminum Alloy 2099-T8 and Acrylonitrile Butadiene Styrene Subjected to Impact Loading (MEng-Completed in Fall 2013).
6. **Denzell Bolling.** Effects of Geometry on the Dynamic Response of Aluminum-Based Alloys under High Strain Rates Compression Loads (MEng-Completed in Spring 2015)
7. **Mark Thom:** Elastic-Plastic Behavior of Aluminum Alloys under Multiaxial Loads (MEng-Completed in Spring 2017)

C2. Doctoral Students

HU doctoral Students

1. **Taiwo Olasumboye:** Dynamic Response of AA2519 Aluminum alloy under High Strain Rates, 2014-2017 (PhD - Completed in December 2017)
2. **Temitayo Daramola:** Mechanical Properties of Cryorolled AA2519 Al Alloy (PhD-Completed in July 2018)
3. **Amin Azimi:** Investigation of the Mechanical Behavior of Ultrafine Grained Aluminum Alloys (PhD - Completed in May 2019).
4. **Olufemi Ajao:** Microstructure and Mechanical Behavior of Cryo-forged Ultrafine Grained AA5052 Aluminum Alloy (PhD - Completed in May 2023).
5. **Melody Chepkoech:** Microstructure and Mechanical Properties of 316L SS produced via Additive Manufacturing (PhD - Completed in July 2023).
6. **Kenneth Looby:** Microstructure and Mechanical Properties of the Medium Entropy Alloy GRX-810 (PhD - in progress, anticipated completion date: November 2026).
7. **Abimbola Ojomo:** Microstructure and Mechanical Properties of Haynes 233 produced via Laser Powder Bed Fusion (PhD - in progress, anticipated completion date: May 2027).

External doctoral Students

1. **Catherine Kuforiji:** *Development of Steel-Alumina Composites for Heavy Wear Applications.* University of Ottawa Ontario, Canada. (External Examiner, May 2017).
2. **Amit Joshi:** *Fatigue and Fracture Studies on Ultrafine Grained 2014 Al Alloy.* Indian Institute of Technology, Roorkee, India. (External Examiner: October 2017).
3. **K.K. Yogesha:** *Mechanical Behavior of Ultrafine Grained 5052 Al Alloy Processed by SPD.* India Institute of Technology, Roorkee, India. (External, October 2017).
4. **Daniel Okegbu:** *Large Deflection Effects on the Energy Release Rate and Mode Partitioning of Face/Core Debonds in Sandwich Composites.* Georgia Institute of Technology, Atlanta. (PhD - External Committee member, completed in August 2023).

5. **Ericsson Tetteh Chenebuah:** *Artificial Intelligence Simulation and Design of Energy Materials with Targeted Properties*. University of Ottawa Ontario, Canada. (External Examiner, April 2024).
6. **Nidhi Chaubey:** *Fatigue and Fracture Behaviour of Al-Mg-Zn Alloy*. Indian Institute of Technology (Banaras Hindu University), India. ((External, August 2025)

C3. Postdoctoral Fellows and Visiting Professors

1. **Olufemi Ajide** (2017- 2018): High Strain rate Deformation of Aluminum Alloy
2. **Nikhil Kumar** (2016-2018): Mechanical Properties of Ultrafine Grained Aluminum Alloys
3. **Abu Rhaman** (2015-2016): High Strain rate Deformation of Aluminum Alloy
4. **Rasheedat Mohammed** (2016-2017): High Strain Rate Behavior of Additive Manufactured Materials
5. **Folorunsho Erinosh** (2016-2017): Mechanical Testing and Characterizations of Laser Deposited Titanium Alloy and Copper
6. **Akindele Odesi** (2015-2016): Fatigue Behavior of Aluminum Alloy (Visiting Professor on Sabbatical Leave from the University of Saskatchewan, Saskatoon, Canada.
7. **Dr. Olukayode Bamiduro** (2013-2015): Dynamic Failure of Polymer Matrix Composites at High Strain Rates.
8. **Dr. Peter Omoniyi** (2024-date): Corrosion Behavior of High Entropy Alloy.

D. Theses: Non-Primary Advisor

D1. Master Students

- **Abimbola Oluwade.** Mixed Convective Heat Transfer in a Three-Dimensional Corrugated Duct (Master thesis, Defended December 2021, Role: Committee Chair)
- **Bibek Ramdam.** Fabrication of UV imprinted nano gratings using organic-inorganic hybrid polymer mold (Master thesis, Defended December 2021, Role: Committee Member)
- **Keron Bradshaw.** Rolling Contact Fatigue in Hybrid Bearing (Master's Thesis Completed, August 2011, Role: Thesis Committee Member)
- **Kemar Hibbert.** The Influence of FDM Build Parameters on the Mechanical Properties of 3D-Printed Acrylonitrile Butadiene Styrene (Master's Thesis Completed, March 2017, Role: Co-advisor)
- **Celeste Brown.** Effect of Air Gap and Layer Thickness on Additively Manufactured Components Under Cyclic Stress (Master's Thesis Completed, December 2019, Role: Co-advisor)

D2. Doctoral Students

- **Seyed Milad Rafieinaini.** Experimental Investigation of Polycyclic Aromatic Hydrocarbon (PAH) Formation in a Diesel Engine Running on Diesel and Pentanol Blends (Doctoral Dissertation Completed, December 2019, Role: Thesis Committee Chair)

- **Moses Ukaoma.** Effects of biodiesel-propanol blends on formation of polycyclic aromatic hydrocarbons (PAHs) in a diesel engine (Doctoral Dissertation Completed, December 2020, Role: Thesis Committee Chair)
- **Arielle Miller.** Mechanical Performance and Mesostructure Analysis of Proton Irradiated Fused Filament Fabrication Acrylonitrile Butadiene Styrene Material (Doctoral Dissertation Expected Complete Date is May 2021, Role: Thesis Committee member and Co-Advisor)

VII. External Research and Scholarly Activities

Funded Proposals

Proposal Title	Agency	Amount	Dates
Consortium for Research and Education for Advanced Manufacturing of Alloys for Extreme Conditions (REAM)	Department of Energy's National Nuclear Security Administration (DOE-NNSA)	\$4,700,000 (in collaboration with TSU and Texas A & M)	2026-2031
Enhanced Microstructures and Mechanical Performances of Additively Manufactured Metallic Alloys (GRT000573)	Department of Defense (DOD)	\$794,000	2023-2027
Acquisition of Ultra-High-Speed Deformation and Strain Measurement System	Department of Defense (DOD)	\$600,750	2024-2025
Leading Advanced Turbine Research for Hybrid Electric Propulsion Systems	NASA (ULI)	\$8,000,000 (in collaboration with Penn State and GT)	2021-2027
Additive Manufacturing Post-Processing Partnership	Department of Energy (DOE)/NNSA	\$3,000,000 (in collaboration with UDC, MSU and Lincoln University)	2019-2023
Novel Methods for Fatigue Life Prediction for Turbine Engine Components.	Air Force Research Lab	\$400,000	2017-2022
Extending Advanced Manufacturing Post-Processing Activities through Acquisition of an Additive Manufacturing System Suite	Department of Defense (DOD)	\$596,000	2021-2023
Optimizing the Dynamic Response of Ultrafine Grain and Hybrid Alloys under Impact Loading	Department of Defense (DOD)	\$596,225	2015-2019

Vibration-Based Cleaning for Ash Removal from Diesel Particulate Filters	NSF-Filter Sensing Technology	\$70,000	2015-2016
Dynamic Failure of Aluminum-Based and Polymer Matrix Composites at High Strain Rates	DOD - Army Research Office	\$514,515	2012-2016
Microstructure-Sensitive Fatigue Design for Notched Components	Air Force of Scientific Research (AFOSR)	\$479,517	2011-2014
Acquisition of a Biaxial Tension-Torsion Testing System to Advance Research, Education, and Training at Howard University	AFOSR-Defense University Research Instrumentation Program (DURIP)	\$525,000	2012-2014
Acquisition of a Biaxial System to advance research, education, and training at Howard University	National Science Foundation	\$367,000	2012

VIII. Service (reverse chronological order)

A. Federal Government

- Reviewer, National Science Foundation, 2012-Present
- Committee Member, The National Academies of Science, Engineering, and Medicines - Assessing NASA's University Leadership Initiative (2020-2021).
- Reviewer, The National Academies of Science, Engineering, and Medicines Thriving in Space - Ensuring the Future of Biological and Physical Sciences Research: A Decadal Survey for 2023-2032.

B. University-Wide

- Member, Presidential Committee on STEMS, 2015
- Member, Howard University Research Council, 2015-Present
- Member, Faculty Senate Faculty Welfare Committee, 2014-2016
- Member, Faculty Senate Library System Research/Resources Committee, 2014-2016
- Member, Faculty Senate Academic and Health Affairs Committee, 2014-2016

C. College-Wide

- Chair, College of Engineering and Architecture (CEA) APT Ad hoc Committee on Guidelines for Promotion and Tenure, 2022-2025
- Chair, CEA Appointment, Promotion and Tenure (APT) Committee, 2020-2024
- Member, CEA APT Committee, 2024-present
- Chair, College of Engineering Grievance Committee, 2017-2020

- Member, College of Engineering Grievance Committee, 2016-2020
- Member School of Engineering Educational Services Committee, 2009-2015
- Member, College of Engineering Committee on Mathematics, 2012-2013
- Member School of Engineering Educational Policies Committee, 2009-2013
- Member, School of Engineering Safety Committee, 2009-2015

D. Departmental

- Graduate Program Director, 2016-2020, 2023-Present
- Advisor, American Society of Mechanical Engineer, 2015-Present
- Member, Department Chair Search Committee, Sept. 2016-December 2016
- Member, Mechanical Engineering Graduate Faculty Committee, 2010-Present
- Member, Undergraduate Curriculum and Assessment Committee, 2009-Present
- Academic Advisor to Several Undergraduate Students, 2009-2020
- Member, Department Faculty Search Committee, Sept. 2024-Date

E. National and International

- Guest Editor, Metals- Special Issue on Failure Behavior in Metallic Alloys, 2022-Present
- Editor-in-Chief, Journal of Advanced Mechanical Engineering, 2016-2020
- Advisory Board, Research on Engineering Structures and Materials, 2016-2017
- Editorial Board Member, Journal of Advanced Mechanical Engineering, 2013-2020
- NSF Proposal Panel Review, CMMI, 2012-Present

F. Other

Member Board of Directors, Anne Arundel County Monarch Schools, 2014-2018

Member Board of Directors, Monarch Global Academy Parent-Teacher Association, 2014-2016

IX. Professional Development Activities (reverse chronological order)

A. Professional Membership

- Fellow, American Society of Mechanical Engineers (2007)
- American Society of Mechanical Engineers (since 2002)
- Registered Professional Engineer (P.Eng.), Member of Professional Engineers and Geoscientists of the Province of Manitoba, Canada (Registered Engineer since 2007)
- Tau Beta Pi Engineering Honor Society (Eminent Engineer, 2014)
- Society of Automotive Engineers (since 2017)

B. Professional Leadership

- Reviewed journal articles for numerous journals including International Journal of Fatigue, International Journal of Steel Structures, Journal of Alloys and Compounds, Materials and Design, Metals, Materials, etc.

- Guest Speaker: Probabilistic Framework for Microstructure-Sensitive Fatigue Design. International Conference of Mechanical Engineering, Energy, Technology and Management. University of Ibadan, Nigeria, September 7th – 9th, 2016.
- Organized and Chaired “*Fatigue and Fracture of Engineering Materials and Structures*” Technical Session for the ASME International Mechanical Engineering Congress and Exposition, IMECE-2013, November 14-20, 2014, Montreal, Canada.
- Organized. “*Fatigue and Fracture of Engineering Materials and Structures*” Technical Session for the ASME International Mechanical Engineering Congress and Exposition, IMECE-2013, November 15-21, 2013, San Diego, CA, USA.
- Organized and Chaired “*The CSME Symposium on Recent Developments in Fatigue and Fracture of Engineering Materials and Structures*” for the Canadian Society for Mechanical Engineering International Congress 2012 CSME International Congress 2012 June 4-6, 2012, Winnipeg, Manitoba, Canada.
- Organized and Chaired “*Fatigue Failure in Engineering Materials and Structures*” Technical Session for the ASME International Mechanical Engineering Congress and Exposition, IMECE-2012, November 5-11, 2012, Houston, TX, USA.