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PERSONAL DATA:

Place of birth: CAIRO, EGYPT

Family status: MARRIED (ONE SON)

POSITIONS:

Jan – Sept 2013 • **Visiting Professor**, Department of Materials Science and Engineering,
Case Western Reserve University, Cleveland, Ohio, USA.

May 2011– Now • **Associate Professor**, Design & Prod. Eng. Dept., Faculty of Eng., Ain
Shams University.

EDUCATION:

Sept. 2003 • **Ph. D.** Mechanical Engineering, (channel system) System between
Ain Shams University, Egypt and Case Western Reserve University, USA.

July 1996 • **M. Sc.** Mechanical Engineering, Faculty of Engineering, Ain Shams University,
Cairo, Egypt.

May 1992 • **B.Sc.** Mechanical Engineering (Very Good With Honors, Project Distinction),
Faculty of Engineering, Ain Shams University, Cairo, Egypt.

AWARDS AND HONERS :

2013 • US-Egypt Joint Board on Scientific and Technological Cooperation Board,
Junior Scientist Development Visit Grant

2011 • Who's Who in America

June 2009 • The Egyptian government encouragement Prize in Advanced Technology
and Science which serves the Engineering Field for the year of 2008.

April 2008 • Research Showcase poster team prize.

2007 • J. William Fulbright Scholar Award.

2006 • US-Egypt Joint Board on Scientific and Technological Cooperation Board,
Junior Scientist Development Visit Grant.

MEMBERSHIPS:

- The American Society of Metals (ASM).
- The Metallurgical and Materials Society (TMS).

- International Metallography Society (IMS).
- Heat Treating Society (HIS)
- The Egyptian Society of Advanced Materials and Nanotechnology (ESAMNT)
- The Association of Egyptian American Scholars (AEAS).
- The Egyptian Society of Engineering Innovations
- Research Team of Mater. Sci.and Eng., Faculty of Eng., Ain Shams Univ.
- The Engineering Syndicate of Egypt, Cairo.
- The Safety Committee, Faculty of Eng., Ain Shams Univ.
- The Egyptian Society of Mechanical Engineers.

JOURNAL ARTICLE REVIEWER:

Metallurgical and Materials Transactions A.

APPOINTMENTS:

- Jan – Oct. 2013 • **Visiting Professor**, Department of Materials Science and Engineering, Case Western Reserve University, Cleveland, Ohio, USA.
- Jan.2012- Now • **Coordinator of the strategic plan committee, QAU, Faculty of Eng., Ain Shams University.**
- April – Sept. 12 • **Manufacture Engineering Unit Head, Credit Hours Program**, Faculty of Eng., Ain Shams University.
- August- Sept. 11 • **Visiting Professor**, Department of Materials Science and Engineering, Case Western Reserve University, Cleveland, Ohio, USA.
- June12- Now • **Associate Professor**, Dept. of Design & Prod. Eng., Faculty of Eng., Ain Shams University.
- June 09-Sept 09 • **Visiting Professor**, Department of Materials Science and Engineering, Case Western Reserve University, Cleveland, Ohio, USA
- June07–June 08 • **Fulbright Scholarship AY 2006/2007** (Post doctor), Department of Materials Science and Engineering, Case School of Engineering, Case Western Reserve University, Cleveland, Ohio, USA.
- March- Sept 06 • **Post doctor**, Department of Materials Science and Engineering, Case School of Engineering, Case Western Reserve University, Cleveland, Ohio, USA.
- 2003-May 2011 • **Assistant Professor**, Dept. of Design & Prod. Eng., Faculty of Eng., Ain Shams University.
- 2001- June 2003 • **Ph.D. Student**, Department of Materials Science and Engineering, Case School of Engineering, Case Western Reserve University, Cleveland, Ohio, USA.
- 1996-2000 • **Lecturer Assistance**, Dept. of Design & Prod. Eng., Faculty of Eng., Ain Shams University.
- 1992-1996 • **Demonstrator**, Dept. of Design & Prod. Eng., Faculty of Eng., Ain Shams Univ.

PROJECTS AND GRANTS:

- Processing and Mechanical Properties of Amorphous Metal Foil and Laminates
U.S.-Egypt Science & Technology Joint Fund (Junior researcher).

MAIN RESEARCH OR TECHNOLOGY TOPICS:

- Fatigue Behavior of a Nano-structured Composite
 - Mechanical Characterization of Amorphous Materials and Bulk Metallic Glass
 - Processing and Mechanical Characterization of Amorphous Laminates
 - Fatigue Crack Growth and Fracture Mechanics of Composite Laminates
 - Mixed Mode Loading Effects on Fracture Toughness of Nano-structured Composites and Bulk Metallic Glass
 - Fatigue and Fracture Behaviour of Advanced Materials
 - Fracture Behavior of Metallic Materials and Cermets
-
- Mechanical Characterization of Materials.
 - Fatigue and Fracture Behavior.

TEACHING COURSES:

- Materials Engineering
- Material Testing
- Theory of Metal Forming
- Corrosion
- Mechanical Metallurgy
- Heat Treatment
- Manufacture Technology
- Production Engineering
- Polymer Processing
- Properties and Processing of Composites

PUBLICATIONS:

- M.A. Taha, M.H. Abd El-Latif, N. El- Mahalawy and **Hala .A. Abd El-Hady**, “Al/Al₂O₃-Particulate MMC Produced by Liquid Metal Infiltration”, PEDD4, 4th International Conference for Production Engineering and Design For Development, Ain Shams University, Faculty of Engineering, Cairo, Egypt, 1994.
- N. El-Mahallawy, M.A. Taha, M.H. Abd El-Latif, and **Hala Abdel -Hakim**, “Effect of Particulate Type and Size on The Structure and Soundness of MMC Produced by Infiltration”, In Proc.6th Conf. on Composite Engineering, Orlando-Florida, USA, 1999, pp.205-206.
- **Hala A. Hassan**, J.J. Lewandowski, M.H. Abd El-latif, “Effects of Lamination and Changes in Layer Thickness on Fatigue Crack Propagation of Light Weight Laminated Metal Composites (LMCs)”, Metallurgical and Materials Transactions A, 35A, 2004, pp 45-52.
- **Hala A. Hassan**, J.J. Lewandowski, M.H. Abd El-latif “Effects of Changes in Test Temperature on Fatigue Crack Propagation of “Al 6090/SiCp-Al 6013” Laminated Metal Composites”, Metallurgical and Materials Transactions A, 35A, 2004, pp2293-2305.

- **Hala A. Hassan**, J.J. Lewandowski, M.H. Abd El-latif, “Effects of Change in Temperature on Fatigue Crack Growth of Adhesively Bonded A1 2080/SiC/20p-2080 A1 Laminated Composites”, Journal of Materials Science, 39, 2004, pp3063-3067.
- **H. A. Hassan** and J.J. Lewandowski, "Effect of High Temperature and Thermal Exposure on Fatigue Crack Propagation of Laminated Metal Composites LMCs", Mater. Sci. and Technology, 23(12), pp. 1505-1512, 2007.
- **Hala A. Hassan**, and J.J. Lewandowski, “Summary of Interface Effects on Fracture and Fatigue of Laminated Aluminum Composites”, TMS 2008 Annual Meeting & Exhibition, March 9-13, New Orleans, Louisiana, pp. 463-470.
- Todd M. Osman, **Hala A. Hassan**, and John J. Lewandowski, “Interface Effects on the Quasi-Static and Impact Toughness of Discontinuously Reinforced Aluminum Laminates”, Metallurgical and Materials Transactions A, 39, August 2008, pp. 1993-2006.
- **Hala A. Hassan**, Laszlo Kecskes, and John J. Lewandowski, “Effects of Changes in Test Temperature and Loading conditions on Fracture Toughness of a Zr-based Bulk Metallic Glass, Metallurgical and Materials Transactions A, 39, Sept. 2008, pp. 2077-2085.
- Alan Vormelker, **Hala A. Hassan**, Laszlo Kecskes, and John J. Lewandowski, “Effects of Changes in Test Temperature on Fracture Toughness of Bulk Metallic Glass/W Composites”, The Seventh International Conference on Tungsten and Hardmaterials, 8-12, 2008, Washington, DC, USA, pp.10/1-10.
- **Hala A. Hassan**, A. B. El-Shabasy, and J.J. Lewandowski, “Fracture and Fatigue Crack Growth of Nano-Composite Aluminum Alloys”, 2008 World Congress on Powder Metallurgy and Particulate Materials, June 8-12, 2008, Washington, DC, USA, pp. 9/186-196.
- **Hala A. Hassan** and John J. Lewandowski, "Effects of Changes in Notch Radius and Test Temperature on the Toughness of a Nano-crystalline Aluminum Alloy Composites Produced via Extrusion of Amorphous Aluminum Alloy Powders., Materials Science and Engineering A, 497, December 2008, pp. 212-215.
- **Hala Hassan**, Adel B. El-Shabasy, M.H. Abd El-latif, “Utilization of the Agricultural Residues in Natural Fiber Polymer Composites (NFPCs)”, Third Ain Shams University International Conference on Environmental Engineering, April 14-16, 2009, Cairo Egypt.
- Adel El-Shabasy, **Hala Hassan**, Yi Liu, Dingqiang Li and J. J. Lewandowski, "High Cycle Fatigue Behavior of a Nano-Structured Composite Produced via Extrusion of Amorphous

Al₈₉Gd₇Ni₃Fe Alloy Powders", Materials Science and Engineering A , 513-514, 2009, pp. 202-207.

- **Hala A. Hassan** and John J. Lewandowski, "Laminated Nanostructure Composite with Improved Bend Ductility and Toughness", Scripta Mater., 61(11), 2009, pp. 1072-1074.
- **Hala A. Hassan**, Adel B. El-Shabasy, and John J. Lewandowski "Putting the heat on nano-composite aluminum alloys" Metal Powder Report, 64 (5), 2009, pp. 28-34.
- **H. A. Hassan**, "Effect of mixed mode I/II on fracture behaviour of laminated metal matrix composites", Mater. Sci. and Technology, 27 (7), 2011, pp.1170-1176.
- **Hala A. Hassan**, Adel B. El-Shabasy, and John J. Lewandowski "The Effects of Changes in Test Temperature and Loading Conditions on Fracture Toughness of a β Toughened Zr-based Bulk Metallic Glass Composite", Materials Science and Engineering A, 540, 2012, pp. 97-101
- A.B. El-Shabasy, **H.A. Hassan**, and J.J. Lewandowski, "Effects of Composition Changes on Strength, Bend Ductility, Toughness, and Flex Bending Fatigue of Iron Based Metallic Glass Ribbons", Metallurgical and Materials Transactions A, 43 (8), pp. 2697-2705, 2012.
- A.B. El-Shabasy, **H.A. Hassan**, and J.J. Lewandowski, "Effects of load ratio, R , and test temperature on high cycle fatigue behavior of nano-structured Al-4Y-4Ni-X alloy composites", Materials Science & Engineering A, 558, 2012, pp. 211-216
- **Hala A. Hassan**, Adel B. El-Shabasy, and John J. Lewandowski "The Effect of Mixed Mode I/II on the Fracture toughness and Fracture Behavior of Nano-structured Metal Matrix Composites", Materials Science and Engineering A, 559, (2013), pp. 897-901.
- **Hala A. Hassan**, and John J. Lewandowski, "Effects of Mixed Mode Loading on the Fracture Toughness of Bulk Metallic Glass/W Composites" in preparation.
- **Hala A. Hassan** and J.J. Lewandowski, "Properties of Discontinuously –Reinforced Metal Matrix Composites and Laminates" in Materials Science for Engineers and Technologists, K .Gupta, ed., 2012.

PRESENTATIONS:

- "Effects of Changes Layer Thickness on Fatigue Crack Propagation Behavior of LMC", Hala A. Hassan, J.J. Lewandowski, M.H. Abd El-latif, Poster Presentation TMS Fall 2002 Meeting, Columbus, Ohio, USA.
- "Effects of Changes in Test Temperature on Fatigue Crack Propagation of Laminated Metal Composites (LMCs)" , Hala A. Hassan, J.J. Lewandowski, M.H. Abd El-latif, Poster

Presentation TMS132nd Annual International Meeting and Exhibition, San Diego, California, USA, March 2-6, 2003.

- “Effects of Changes in Test Temperature on Fatigue Crack Propagation of Laminated Metal Composites (LMCs)” , Hala A. Hassan, J.J. Lewandowski, M.H. Abd El-latif, The First Research Showcase April 2003, Case Western Reserve University, Cleveland, Ohio, USA.
- “Effects of Changes in Test Temperature on Fatigue Crack Propagation of Laminated Metal Composites (LMCs)”, Hala A. Hassan, J.J. Lewandowski, M.H. Abd El-latif, Oral Presentation TMS Fall 2003 Meeting and 45th ISS Conference, Chicago, Illinois, USA, Nov. 9-12, 2003.
- “Effects of High Temperature and Thermal Exposure on Fatigue Crack Propagation of Laminated Metal Composites (LMCs)”, Hala A. Hassan, J.J. Lewandowski, at the Materials Science & Technology 2007 Conference and Exhibit (MS&T '07), Detroit, MI, Sept. 16-20, 2007.
- “Effects of Composition Changes on Mechanical Properties of Iron Based Metallic Glass Ribbons”, A.B. El-Shabasy, Hala A. Hassan, and J.J. Lewandowski, Materials Science and Technology 2007 Conference, Detroit, MI, September 16-20, 2007.
- “Interface Effects on Fracture and Fatigue of Laminated Aluminum Composites”, Hala A. Hassan, and J.J. Lewandowski, Mechanics and Kinetics of Interfaces in Multi-Component Materials Systems symposium, Oral Presentation at TMS 2008 Annual Meeting & Exhibition, March 9-13, New Orleans, Louisiana.
- “Effects of Changes in Test Temperature and Notch radius on Fracture and Fatigue Crack Growth of Nano-Composite Aluminum Alloys”, Hala A. Hassan, A. B. El-Shabasy, and J.J. Lewandowski, 6th Research Showcase, Case Western Reserve University, Cleveland-OH, USA, April 16-17, 2008.
- “Effects of Test Temperature and Stress Ratio, R, on High Cycle Fatigue Behavior of a Nano-Structured Al₈₉Gd₇Ni₃Fe Alloy Composite” A. B. El-Shabasy, Hala A. Hassan, and J.J. Lewandowski, 6th Research Showcase, Case Western Reserve University, Cleveland-OH, USA, April 16-17, 2008.
- “Effect of Sensitization on the Microstructure and the Mechanical Properties of 5xxx Aluminum Alloys”, Dingqiang Li, Hala A. Hassan, A. B. El-Shabasy, and J.J. Lewandowski, 6th Research Showcase, Case Western Reserve University, Cleveland-OH, USA, April 16-17, 2008.
- “Fracture and Fatigue Crack Growth of Nano-Composite Aluminum Alloys”, Hala A. Hassan, A. B. El-Shabasy, and J.J. Lewandowski, World Congress on Powder Metallurgy and Particulate Materials, June 8-12, 2008, Washington, DC, USA.
- “Effects of Load Ratio, R, and Temperature on High Cycle Fatigue Behavior of Nano-structured Al₈₉Gd₇Ni₃Fe₁ Composite” A. B. El-Shabasy, Hala A. Hassan, and J.J. Lewandowski, World

Congress on Powder Metallurgy and Particulate Materials, June 8-12, 2008, Washington, DC, USA.

- “Effects of Changes in Test Temperature on Fracture Toughness of Bulk Metallic Glass/W Composites”, Hala A. Hassan, John J. Lewandowski, Alan Vormelker, and Laszlo Kecskes, Oral Presentation at 2008 World Congress on Powder Metallurgy and Particulate Materials, Tungsten Conference, June 8-12, 2008, Washington, DC, USA.
- “Fracture and Fatigue of Fe₇₈Si₉B₁₃ Metallic Glass Ribbons”, A.B. El-Shabasy, Hala A. Hassan and J.J. Lewandowski, Materials Science and Technology 2008 Conference, Pittsburgh, PA, Oct.5, 2008.
- “Effects of Notch Radius, Test Temperature and Mixed Mode Loading on the Toughness of a Nano-Structured Al Composite”, H.A. Hassan, A.B. El-Shabasy, and J.J. Lewandowski, Materials Science and Technology 2008 Conference, Pittsburgh, PA, Oct. 5, 2008.
- “Fracture and Fatigue of Nano-Composite Aluminum Alloys”, Hala A. Hassan, A. B. El-Shabasy, and J.J. Lewandowski, Oral Presentation, 1st international joint conference on Materials science, Nanotechnology and Biotechnology - MNB 09 - Future Challenges, January 4- 6th, 2009, National Research Centre (NRC), Cairo –Egypt.
- “Microstructure and Mechanical properties evolution of Long-time serviced 5xxx Aluminum Alloys” Justin Brosi, Dingqiang Li, Hala Hassan, Adel El-Shabasy, and John Lewandowski, 8th Research Showcase, Case Western Reserve University, Cleveland-OH, USA, April, 2009.
- “Effects of Lamination on Mechanical Behavior of Nano-Structured Aluminum Composite” Hala A. Hassan, A. B. El-Shabasy, and J.J. Lewandowski, Materials Science & Technology 2009 Conference and Exhibit (MS&T '09), Oct 25- 29, Pittsburgh, PA, USA, 2009.
- “Fracture and Fatigue of Fe-based Metallic Glass Ribbons”, A.B. El-Shabasy, Hala A. Hassan and J.J. Lewandowski, Materials Science & Technology 2009 Conference and Exhibit (MS&T '09), Oct 25- 29, Pittsburgh, PA, USA, 2009.
- Microstructure and Mechanical Properties Evolution of Intermediate Temperature Sensitized Al-Mg Alloys, Justin Brosi, Dingqiang Li, Hala Hassan, Adel El-Shabasy, and John Lewandowski, Oral Presentation, JUMR Symposium MS&T 2009 - Virginia Polytechnic Institute and State University Tuesday Oct 27, 2009.

CONFERENCE AND EDUCATIONAL SEMINARS:

- Assisted and attended PEDD4, 4th International Conference for Production Engineering and Design For Development, Ain Shams University, Faculty of Engineering, Cairo, Egypt, 1994.
- The Seminar Program at the Cleveland Am Con (America Contract Manufactures) Show on:
 1. New Technologies in Polyurethane Foam, Rubber Molding and Foam Conversion (MBI).

2. Bearing and wear of Plastics (TPI).
 3. Water jet Cutting Technique (Met Plas)
May 22- 23, 2001, IX Center, Cleveland, Ohio, USA.
- DMSE Seminars, Spring 2001-Fall 2002.
Case Western Reserve University, Cleveland, Ohio, USA.
 - TMS Fall 2002 Meeting, Oct. 6-10, Columbus, Ohio, USA.
 - 1st Research Showcase April 2003, Case Western Reserve University, Cleveland, Ohio, USA.
 - Association of Egyptian American Scholars Bi-Annual Conference, “The Role of Science and Technology in the Future of Egypt”, Dec.29-30, 2004, Cairo –Egypt.
 - 4th Research Showcase April 2006, Case Western Reserve University, Cleveland, Ohio, USA.
 - UMBC Advance Horizon Workshop, July 2006, University of Maryland, Baltimore County, Maryland.
 - 1st Workshop of The Advanced Materials and Applied Nanotechnology Group (Nobel Project), “Relevance between Advanced Materials and Nanotechnology”, National Research Center, Nov. 26-27, 2006, Cairo-Egypt
 - Association of Egyptian American Scholars 17th Bi-Annual Conference, “Enhancement of Higher Education and Scientific Research in Egypt”, Dec.26-27, 2006, Cairo –Egypt.
 - Faculty and Leadership Development Project (FLPD) Training Courses, Nov., 2006- March 2007
Cairo-Egypt.
 - The First Conference of Scientific Research for Development, Ain Shams University, March 25-27, 2007, Cairo-Egypt.
 - Materials Science & Technology 2007 Conference and Exhibit (MS&T '07), Detroit, MI, Sept. 16-20, 2007
 - International Symposium on Surface Hardening of Stainless Steels, sponsored by ASM and Case Western Reserve University, Cleveland, Ohio, October 22-23, 2007.
 - 6th Research Showcase, Case Western Reserve University, Cleveland-OH, USA, April 16-17, 2008.
 - World Congress on Powder Metallurgy and Particulate Materials, June 8-12, 2008, Washington, DC, USA.

- International Workshop on Acoustics and Vibration in Egypt (IWAVE 2008), The Sixth Swedish-Egyptian Workshop in Sound and Vibration Research, 11-12 Oct. 2008, Faculty of Engineering, Ain Shams University, Cairo, Egypt.
- Association of Egyptian American Scholars 35th Annual Conference, “Cooperation among Scholars in Egypt and Abroad: Strategies and a Vision for Modern Education”, Supreme Council of Universities, Dec.27-29, 2008, Cairo –Egypt.
- 1st international joint conference on Materials science, Nanotechnology and Biotechnology - MNB 09 - Future Challenges, January 4- 6th, 2009, National Research Centre (NRC), Cairo – Egypt.
- Third Ain Shams University International Conference on Environmental Engineering, April 14-16, 2009, Cairo Egypt.
- Fulbright Commission 60th Anniversary Conference, Bibliotheca Alexandrina, Nov. 1-2, 2009, Egypt.
- Assisted and attended PEDD8, 8th International Conference for Production Engineering and Design For Development, Ain Shams University, Faculty of Engineering, Cairo, Egypt, March 9-10, 2010.
- Fulbright Commission-NRC, "Going Greener and Cleaner" Seminar, April 26, 2010, National Research Centre, Cairo.
- Association of Egyptian American Scholars 38th Annual Conference, “A Roadmap for Higher Education and Scientific Research in Egypt”, Dar El Dyafa, Ain Shams University, Dec. 26-28/2011, Cairo –Egypt.
- “The quality in the Educational Organizations and the related Skills” Workshop, QAAC, 23 Sept. 2012, Ain Shams University, Cairo, Egypt.
- “Academic Advisory for Credit hours System.” program, June 2012, Ain Shams University, Cairo, Egypt.
- “Strategic Plan” program, NAQAA, 2-3 June 2012, Ain Shams University, Cairo, Egypt.
- Preparation of the faculties for the Accreditation Visit from NAQAA & the External Revision” program, NAQAA, 14-18 Oct. 2012, Cairo, Egypt.
- Association of Egyptian American Scholars 39th Annual Conference, “The Role of Modern Science and Emerging Technologies in economic Development of the New Egypt”, National Research Center, Dec. 25-27, 2012, Cairo –Egypt.