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Work: Dept. of Materials Sci. and Eng.

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Work: Dept. of Design & Prod. Eng., Faculty of Eng., Ain Shams Univ.,

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PERSONAL DATA:

Date and place of birth: JAN. 17, 1970

CAIRO, EGYPT

Family status: MARRIED (ONE SON)

EDUCATION:

- Sept. 2003 • **Ph. D.** Mechanical Engineering, (channel system) System between Ain Shams University, Egypt and Case Western Reserve University, USA, "Fracture and Fatigue of Laminated Aluminium Composites".
- July 1996 • **M. Sc.** Mechanical Engineering, Faculty of Engineering, Ain Shams University, Cairo, Egypt, "Influence of Particle Type on the Aluminum Composite MMC/Produced by Centrifugal Casting".
- May 1992 • **B.Sc.** Mechanical Engineering (Very Good With Honors, Project Distinction), Faculty of Engineering, Ain Shams University, Cairo, Egypt.

POSITIONS:

Nov.2003 – Now • **Assistance Professor**, Design & Prod. Eng. Dept., Faculty of Eng., Ain Shams University.

MEMBERSHIPS:

- The American Society of Metals (ASM).
- The Metallurgical and Materials Society (TMS).
- Research Team of Materials Eng. and Metallurgy process.
- The Engineering Syndicate of Egypt, Cairo.
- The Association of Egyptian American Scholars (AEAS).

APPOINTMENTS:

- June–March 2008 • **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 2006 • **Post doctor**, Department of Materials Science and Engineering, Case School of Engineering, Case Western Reserve University, Cleveland, Ohio, USA.
- 2003-2006 • **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.

MAIN RESEARCH OR TECHNOLOGY TOPICS:

Mechanical Characterization of Materials.
Fatigue and Fracture Behavior

TEACHING COURSES:

- Materials Engineering,
- Engineering Metallurgy,
- Welding,
- Production Engineering,
- Material Testing,
- Heat Treatment
- Casting.
- Corrosion
- Theory of Metal Forming
- Manufacture Technology

RELEVANT PUBLICATIONS:

- “Al/Al₂O₃-Particulate MMC Produced by Liquid Metal Infiltration”, M.A. Taha, M.H. Abd El-Latif, N. El- Mahalawy and **Hala .A. Abd El-Hady**, PEDD4, 4th International Conference for Production Engineering and Design For Development, Ain Shams University, Faculty of Engineering, Cairo, Egypt, 1994.
- “Effect of Particulate Type and Size on The Structure and Soundness of MMC Produced by Infiltration”, N. El-Mahallawy, M.A. Taha, M.H. Abd El-Latif, and **Hala Abdel –Hakim**, In Proc.6th Conf. on Composite Engineering, Orlando-Florida, USA, 1999, pp.205-206.
- “Effects of Lamination and Changes in Layer Thickness on Fatigue Crack Propagation of Light Weight Laminated Metal Composites (LMCs)”, **Hala A. Hassan**, J.J. Lewandowski, M.H. Abd El-latif, Metallurgical and Materials Transactions A, 35A, 2004, pp 45-52.
- “Effects of Changes in Test Temperature on Fatigue Crack Propagation of “Al 6090/SiCp-Al 6013” Laminated Metal Composites”, **Hala A. Hassan**, J.J. Lewandowski, M.H. Abd El-latif, Metallurgical and Materials Transactions A, 35A, 2004, pp2291-2303.
- “Effects of Change in Temperature on Fatigue Crack Growth of Adhesively Bonded Al 2080/SiC/20p-2080 A1 Laminated Composites”, **Hala A. Hassan**, J.J. Lewandowski, M.H. Abd El-latif, Journal of Materials Science, 39, 2004, pp3063-3067.

- “Effects of Interface Character on the Fracture of Discontinuously Reinforced Aluminum Laminates”, T.M. Osman, **Hala A. Hassan**, and J.J. Lewandowski, Materials Science and Technology, 2006, in review.
- “Properties of Discontinuously –Reinforced Metal Matrix Composites and Laminates” **Hala A. Hassan** and J.J. Lewandowski, 2006, in review.
- Effect of High Temperature and Thermal Exposure on the Fatigue Crack Propagation of Laminated Metal Composites LMCs, **Hala A. Hassan** and J.J. Lewandowski, Mater. Sci. and Technology, 2007, in press.
- High Cycle Fatigue Behavior of a Nano-Structured Composite Produced via Extrusion of Amorphous $Al_{89}Gd_7Ni_3Fe$ Alloy Powders, Adel El-Shabasy, **Hala Hassan**, Shan Qi, P. Wesseling, J. J. Lewandowski, in preparation.

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.

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.

- 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.
- 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.