

Curriculum Vitae



Hossein Eskandari

Office: Department of Mechanical Engineering, School of
Engineering
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OBJECTIVE: Assistant Professor

ACADEMIC PREPARATION:

Ph.D. in Selection of Materials and Manufacturing Method of Metals, School of Metallurgical and Material Science Engineering, College of Engineering, University of Tehran, 2004

Concentrations: Explosive Compaction of Powders, Composites, Tribology, Powder Metallurgy

Dissertation: Tribological Behaviour of the Particular Al-Matrix Composites Produced by explosive Compaction

M.A. in Selection of Materials and Manufacturing Method of Metals, Department of Material Science, School of Engineering, University of Shiraz, 1993

Concentrations: Wear

Thesis: *Wear, Principles and Measurement*

B.A. in Metal Forming, University of Shiraz, 1988

RESEARCH SKILLS:

- Shock Wave Consolidation of the Powders, Powder Metallurgy
- Tribological Behaviour of the Composite Materials, Composite Materials
- Bio & Nano technology (Bio & Nano material)
- Corrosion
- FGM materials

LANGUAGES:

- English (Reading/ Speaking/Writing)(Relatively Good)
- Can read(Hiragana & Katagana) and Speaking Japanese

PROFESSIONAL EXPERIENCE:

Teaching, Departement of Mechanical Engineering, Persian Gulf University, 1994-present
Material Science, Manufacturing Methods, Welding Theory, Corrosion, Welding Lab.,
Casting Lab.

Research Projects Enforced: Study of manufacturing a new wear resistance measurement apparatus used in casting industry . persian Gulf University, 2008

PUBLICATIONS:

1. H. Eskandari, H. M. Ghasemi and M. Emamy, "Microstructure and interface studies of Al/SiCp composites produced by dynamic compaction", Materials Science Forum, Vols. 465-466 (2004) pp. 213-218
2. H. Eskandari, K. Hokamoto, H. M. Ghasemi, M. Emamy, S. Borji, J. S. Lee, "Comparative Study of Al/SiCp Composites Manufactured by Direct and Underwater Explosive Compaction", Materials Science Forum, Vols. 465-466 (2004) pp. 433-438
3. H. Eskandari, H. M. Ghasemi, M. Emamy, K. Hokamoto, "Influence of sintering on bending strength of Al/SiCp composites using underwater shock consolidation", Materials Science and Technology, Vol. 22, No. 3, 2006, pp. 349-352
4. H. Eskandari, H. M. Ghasemi, M. Emamy, S Borji, "Study of microstructure of the Al-matrix composites manufactured by explosive compaction", Journal of faculty of Engineering (special issue: Mechanical & Metallurgy Engineering), University of Tehran, Vol. 39, No.6 Feb. 2006, pp. 785-791
5. H. M. Ghasemi, M. Emamy, H. Eskandari, K. Hokamoto, M. Nishida and M. Matsuda, "Interfacial characterisation in Al-20vol.-%SiCp explosively compacted composite", Materials Science and Technology, Vol. 25, No. 1, 2009, pp. 108-110
6. H. Eskandari, H. M. Ghasemi, M. Emamy, K. Hokamoto, "Comparative Study of Al/TiB₂ Composites Manufactured by Underwater and Direct shock wave consolidation ", Materials Science Forum Vol. 673 (2011) pp 231-236
7. H. Eskandari , R. Gholamipour, "Properties of Nd-Fe-B powder explosively compacted" Materials Science Forum Vol. 673 (2011) pp 237-242
8. H. Eskandari , K. Hokamoto, "Underwater explosive consolidation of mechanically milled Al/TiB₂ composites", Materials Science Forum Vol. 673 (2011) pp 137-142
9. H. Eskandari , H. M. Ghasemi, "Wear behavior of Al-20Vol. %SiC_p composites manufactured by dynamic consolidation", Advanced Materials Research, Vol. 685 (2013) pp 40-44
10. H. Eskandari, Processing of Al/SiC/TiB₂ hybrid nanostructured composites by underwater shock wave consolidation, Advanced Materials Research Vol. 829 (2014) pp 157-162

11. F. Khodabakhshia,* , M. Abbaszadehb, H. Eskandarib, S.R. Mohebpour, "Application of CGP-cross route process for microstructure refinement and mechanical properties improvement in steel sheets", Journal of Manufacturing Processes, Article in press.

Book: An Introduction to Welding in Shipbuilding Industry, ISSN: 978-600-90138-7-6,1390, Publicator: Persian Gulf University

RESEARCH SUBMITTED AND IN PREPARATION:

- Influence of Density on wear behavior of the Al/SiC_p composites manufactured by dynamic compaction
- Sliding wear behavior of the Al/SiC_p composites manufactured by explosive compaction
- Manufacturing of a centrifugal casting apparatus for production of functionally graded materials
- Properties of Nd-Fe-B powder explosively compacted
- Underwater explosive consolidation of mechanically milled Al/TiB₂ composites

Patents:

- Explosive compaction of Al/SiC_p composites, 32044
- Manufacturing of a Rubber Wheel/Dry Sand Wear apparatus, 32043
- Under Water explosive compaction of Al/TiB₂ composites, 56396
- Manufacturing of a Wear measurement apparatus(rotation cylinder), 56397
- Manufacturing of Nd-Fe-B magnetic parts by dynamic compaction, 75466
- Manufacturing of a centrifugal casting apparatus(for production of functionally graded cylinder), 75459

Peer-reviewed conference papers:

1. H. Eskandari, H. M. Ghasemi and M. Emamy, "Microstructure and interface studies of Al/SiC_p composites produced by dynamic compaction", First International Symposium on Explosion, Shock Wave and Hypervelocity Phenomena (1st ESHP Symposium), March 15-17, 2004 at Kumamoto University, Japan

2. H. Eskandari, K. Hokamoto, H. M. Ghasemi, M. Emamy, S. Borji, J. S. Lee, “ Comparative Study of Al/SiC_p Composites Manufactured by Direct and Underwater Explosive Compaction”, First International Symposium on Explosion, Shock Wave and Hypervelocity Phenomena (1st ESHP Symposium), March 15-17, 2004 at Kumamoto University, Japan
3. H. Eskandari, H. R. Ghasemi, M. Emami, K. Hokamoto, " Study of Al-10vol.%SiC_p Composite Manufactured by Underwater Explosive Compaction, ICRAMME 2005, 2005, Kuala Lumpur, Malaysia
4. H. Eskandari, "Nanocrystals observed in interface of Al/SiC_p composite manufactured by explosive compaction", 1st NTC 2007(Nano Technology Conference), Shiraz, Iran
5. H. Eskandari, H. R. Ghasemi monfared rad , M. Emami , S. Borji, “ Explosive Compaction of Al-base Composite Powders” , proc. of 2th science& application conf. Of Airspace industrial organization” , Feb. 2003 ,Tehran, Iran
6. H. Eskandari , “ Shock Wave Consolidation of Ti₃Al Intermetallic Powders”, proc. of 2th seminar of maham institue, Jun. 2002, Tehran, Iran
7. H. Eskandari , “Dynamic Compaction Of Permanent Magnet Powders , proc. of 1th seminar of maham institu” , Jun.2001, Tehran, Iran
8. H. Eskandari, H. R. Ghasemi, K. Hokamoto,"properties of Al-20vol.%TiB₂ composites manufactured by underwater shock consolidation", International conference on science and technology of composite materials, COMATCOMP O9, Donostia-San Sebastian, 7-9 oct. 2009, Spain
9. A. Fiuoz, H.Eskandari, A. Saadat, “Mechanical and metallurgical examination of the worked structural steel rods befor and after rolling”, 5th National Congress on Civil Engineering, 4-6 May,2010, Ferdowsi University of Mashhad, Mashhad, Iran
10. H. Eskandari , K. Hokamoto,“ Underwater explosive consolidation of mechanically milled Al/TiB₂ composites”, International symposium on explosion, shock wave and high-energy reaction phenomena 2010 (3rd ESHP symposium), September 1-3, 2010, Seoul National University, Seoul, Korea
11. H. Eskandari , R. Gholamipour, “Properties of Nd-Fe-B powder explosively compacted” , International symposium on explosion, shock wave and high-energy reaction phenomena 2010 (3rd ESHP symposium), September 1-3, 2010, Seoul National University, Seoul, Korea
12. H. Eskandari, H. M. Ghasemi, M. Emamy, K. Hokamoto," Comparative Study of Al/TiB₂ Composites Manufactured by Underwater and Direct shock wave consolidation ", International symposium on explosion, shock wave and high-energy reaction phenomena 2010 (3rd ESHP symposium), September 1-3, 2010, Seoul National University, Seoul, Korea
13. H. Eskandari," Properties of Al-30vol.%TiB₂/SiC hybrid composites manufactured by underwater shock wave consolidation" 2nd International conference on smart materials and nanotechnology in engineering (SMNE 2012), July 21-22, 2012, Dubai, United Arab Emirates

14. H. Eskandari , H. M. Ghasemi, “ Wear behavior of Al-20Vol. %SiC_p composites manufactured by dynamic consolidation”, 3rd International conference on Advanced Materials Research (ICAMR 2013), Januray 19-20, 2013, Dubai, United Arab Emirates
15. M. Joukar, A. Davoodi, H. Eskandari, “ Electrochemical Behavior of Al/SiC_p composites manufactured by Underwater explosive consolidation in Sea Water”, The first national conference on new technologies in chemical and chemical engineering, May 16, 2013, Tehran, Iran

CURRENT RESEARCH INTERESTS:

Comparative study of Tribological behavior of Al-matrix composites manufactured by various methods , Nanomaterials and Nanocomposites, FGM materials, Corrossion

PROFESSIONAL MEMBERSHIPS:

Iranian Corrosion Association
Iranian Association of Naval Architecture & Marin Engineering
Association of Iranian academic
Iranian Nano Technology Society (Head of INS-Bushehr Branch)

Nanotechnology exhibition organizer : (Persian Gulf University, Bushehr,Iran, February 2013)

The organizer of National nanotechnology competition : (Persian Gulf University, Bushehr,Iran, April 2013)

Awards:

Youn Scientist certificate by organizing committee of First International Symposium on Explosion, Shock Wave and Hypervelocity Phenomena (1st ESHP Symposium), March 15-17, 2004 at Kumamoto University, Japan

professor selective in teaching, (Persian Gulf University, 2010)

Workshops:

1- Cathodic protection: application of cathodic protection systems in reinforced concrete & steel structures, Iranian corrosion Association, 19-24Feb. 2006, Tehran, Iran

2- Carbon nano tube manufacturing methods, 1st NTC 2007(Nano Technology Conference), Shiraz, Iran

3- Nanoscale Characterization, part(1): Morphology, Iranian Polymer and Petrochemical institute, 6-7March 2007, Tehran, Iran