CURRICULUM VITAE

IRAKLIS MAVROS

Dr. MATERIALS ENGINEERING

PERSONAL DETAILS

First Name | IRAKLIS

Last Name | MAVROS

Date of Birth 5th of July 1982

Address Chr. Smirnis, 1 B', 65403

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Nationality Hellenic

EDUCATION

• 2007-2013 Doctoral Thesis

"Development of Aluminum Matrix Composites and Evaluation of their Corrosion and Wear Behavior"

Grade | Excellent

Department of Materials Science and Engineering, University of Ioannina

• 2006-2007 Diploma Thesis

"Heat Treatment of Highly Alloyed

White Cast Irons"

2000-2007 Diploma of Materials Engineering

• Grade 6.62 (Very Good))

Department of Materials Science

and Engineering,

University of Ioannina

PERSONAL SKILLS

Metallurgy Metallographic Preparations Microstructural Analyses **Heat Treatments** Phase Transformations Casting Metal Matrix Composites Aluminum Alloys Mechanical Properties - Testing Corrosion and Protection of Metal **Materials** Tribology **Optical Microscopy** Scanning Electron Microscopy Coordination and administration of people and projects Living, cooperation and excellent communication in the work environment

WORKING EXPERIENCE

05/2012 - 09/2012 | Cooperation with Swerea Swecast

AB, Jönköping, Sweden, participating the Erasmus Exchanging program

12/2005 - 03/2006

Cooperation with Greek Modern Castings, Kambakas Group,

Diomidia, Xanthi

TEACHING EXPERIENCE

2007-2012

Supervision and technical guidance of undergraduate theses in the "Applied Metallurgy" Laboratory, Dept. Materials Science and Egineering, University of Ioannina

2009-2012

Teaching assistant in the "Applied Metallurgy" Laboratory, Dept.

Materials Science and Egineering, University of Ioannina

2008-2010

Teaching assistant in the "Mechanics, Smart Sensors & Nondestructive Evaluation (MSS-NDE)" Laboratory, Dept. Materials Science and Egineering, University of Ioannina

INTERNATIONAL JOURNAL PUBLICATIONS

2013

H.Mavros, A.E.Karantzalis, A.Lekatou, «Solidification observations and sliding wear behaviour of cast TiC particulate reinforced AlMgSi matrix composites», Journal of Composite Materials, Vol 47, No 17, August 2013, p 2149-2162

2012

A.E. Karantzalis, A. Lekatou, A. Kapoglou, H. Mavros, V. Dracopoulos, «Phase transformation and microstructural observations during subcritical heat treatments of a high-chromium cast iron», Journal of Materials Engineering and Performance, Vol. 21, No. 6, July 2012,p 1030-1039

2011

A.E.Karantzalis, A.Lekatou, E.Georgatis, V.Poulas, H.Mavros, «Casting-based production of Al-TiC-AlB₂ composite material through the use of KBF₄ salt», Journal of Materials Engineering and Performance, Vol 20, No 2, March 2011, p 198-202

2010

A.E.Karantzalis, A.Lekatou, E.Georgatis, V.Poulas, H.Mavros, «Microstructural observations in a cast Al-Si-Cu/TiC composite», Journal of Materials Engineering and Performance, Vol 19, No 4, June 2010, p 585-590

A.E.Karantzalis, A.Lekatou, E.Georgatis, H.Mavros, «Solidification behaviour of ceramic particle reinforced Al-alloy matrices», Journal of Materials Science, Vol 45, No 8, April 2010, p 2165-2173

A.E.Karantzalis, A.Lekatou, E.Georgatis, T.Tsiligiannis, H.Mavros, «Solidification observations of dendritic cast Alalloys reinforced with TiC particles», Journal of Materials Engineering and Performance, Vol 19, February 2010, p. 1268-1275

2009

A.E.Karantzalis, A.Lekatou, H.Mavros, «Microstructure and properties of high chromium cast irons: effect of heat treatments and alloying additions», International Journal of Cast Research, Vol 22, No 6, December 2009, p 448-456

A.E.Karantzalis, A.Lekatou and H.Mavros, «Microstructural modifications of as-cast highchromium white iron by heat treatment», Journal of Materials Engineering and Performance, Vol 18, No 2, March 2009, p 174-181

PRESENTATION IN CONFERENCES

20-22/11/2013 Volos 5th Panhellenic Conference on Metal Materials, "Al/TiC composite materials: Comparative study of electrochemical corrosion and sliding wear" (in Greek) I. Mavros, A. Lekatou, A.E. Karantzalis, "Applied Metallurgy" Laboratory, Dept. Materials Science and Egineering, University of Ioannina

4-5/11/2010 Thessaloniki 4th Panhellenic Conference on Metal Materials, "Production of cast Al-TiC-AlB₂ composite through the use of KBF₄ salts" (in Greek). I. Mavros, A. Lekatou, A.E. Karatnzalis. V. Poulas, E. Georgatis, "Applied Metallurgy" Laboratory, Dept. Materials Science and Egineering, University of Ioannina

3/4/2009 Ioannina

Workshop Hellenic Metallurgical Society (HMS) and Hellenic Ceramic Society (HCS), "Combination of Metal-Ceramic Materials in Technological Applications", A.E. Karantzalis, A. Lekatou, I. Mavros, "Applied Metallurgy" Laboratory, Dept. Materials Science and Egineering, University of Ioannina

6-7/12/2007 Patra 3rd Panhellenic Conference on Metal Materials, "Study of the effect of heat treatment and alloying additions on the microstructure and mechanical properties of high chromium white cast irons" (in Greek). A.E.Karantzalis, A. Lekatou, I. Mavros, G. Karamanis, "Applied Metallurgy" Laboratory, Dept. Materials Science and Egineering, University of Ioannina and GMC

LANGUAGES English

COMPUTER SKILLS Windows, MS Office

MILITARY FOR OBLIGATIONS

Fulfilled

REFERENCES

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Theodore Matikas. Professor Dept. Materials Science and Engineering, University of Ioannina Phone Number

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