

## **CURRICULUM VITAE**

**Azarias A. Mavropoulos**

**MS, MEd, Mechanical Engineering**

**Department of Mechanical Engineering, Aristotle University of  
Thessaloniki**

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## 1. PERSONAL DATA

Name: **Azarias**

Surname: **Mavropoulos**

Birthday: August 15 1968

Place of Birth: Drama

Marital Status: Married with two children

Business Address: Physical Metallurgy Laboratory, Mechanical Engineering  
Department, School of Engineering, Aristotle University of Thessaloniki  
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## 2. EDUCATION:

2008-present: Ph.D. candidate, Mechanical Engineering Department, Aristotle University of Thessaloniki

2005-2007: Postgraduate Specialization Degree in "Planning and Development Models of Educational Units", University of the Aegean

2001-2002: Degree in Educational Studies in School of Pedagogical and Technological Education (ASPETE), Thessaloniki

1999 - 2000: Postgraduate Specialization Degree in "Processes and Technology of Advanced Materials", Interdisciplinary Studies Program. Aristotle University of Thessaloniki.

1990 - 1997: Diploma of Mechanical Engineering, Mechanical Engineering Department, School of Engineering, Aristotle University of Thessaloniki

1986 - 1988: Studies in the Air Force Academy, School of Flying.

1983 - 1986: Studies in the third High School of Drama.

## 3. RESEARCH ACTIVITIES

Participation in the following national and European research programs under project contracts with the Research Committee of the Aristotle University of Thessaloniki:

9 / 2000 - 8 / 2001: **PAVET** "Integration flame hardening machine in the production process of industry. Physical Metallurgy Laboratory" , GSRT

10/2001 -1/2004: **Operational Program 'Education and Initial Vocational Training' II** Post-graduate Studies Program Reform. In charge of the post-graduate program evaluation of "Processes and Technology of Advanced Materials".

2 / 2004 - 9 / 2004: **Operational Program 'Education and Initial Vocational Training' II** "Undergraduate Studies Program Reform of Mechanical Engineering", Aristotle University of Thessaloniki

6 / 2005 - 9 / 2005: **5th Framework Program** "European Network Surface Engineering of New Alloys for Super High Efficiency Power Generation" 'SUNASPO'

6/2005- 3 / 2006: **5th Framework Program SUPERCOAT** "Coatings for supercritical steam cycles"

1 / 2007 - 2 / 2008: **Interreg** "Center of advanced materials processes and technology"

3 / 2010 - 5 / 2010: **Technical report:** Compatibility of fuel injection equipment with biodiesel

#### **4. TEACHING EXPERIENCE:**

- As a laboratory associate fully qualified to Technological Educational Institute of Thessaloniki
- As assisting teaching staff in undergraduate courses in Mechanical Engineering Department, Aristotle University of Thessaloniki
- As a permanent teacher in secondary technical and vocational education and
- As an adult educator in various lifelong learning institutions.

#### **5. PROFESSIONAL EXPERIENCE**

8/2006- present:

Mechanical Engineer in Metallurgy Laboratory, Department of Mechanical Engineering, Aristotle University of Thessaloniki.

Responsibilities: a) in charge of testing at the Corrosion Centre of Metallurgy Laboratory of the Aristotle University of Thessaloniki (accredited, according to ISO 17025) b) design and development of National and European programs, c) assist in the educational and research activities of the Metallurgy Laboratory

9/2004-8/2006:

Secondary Teacher in Technical and Vocational Education

3/ 1999 - 8 / 2004:

a) Consultant mechanical engineer in the design, development and implementation of European and national programs, and b) Safety Engineer in various companies

5 / 1998 - 2 / 1999:

Head of planning and maintenance in GIANTSIS D. & Co. Inc. Metallic Industry. In charge of the design in Solid Works, construction analysis, promotions, pricing.

10/1997 - 4 / 1998:

In charge of CNC machines in PRISMA AE Glass processing industry

## 6. Scientific Publications

### 6.1 Extensive work

6.1.1. Undergraduate thesis: "Library of office furniture components construction, grouped in families in an environment system CAD / CAM (Pro / ENGINEER)". Aristotle University of Thessaloniki, 1995.

6.1.2 Post-graduate thesis: "A study of microstructure evolution during solidification of SiC<sub>p</sub>-reinforced Aluminium Alloys". Aristotle University of Thessaloniki, 2000.

6.1.3 Post-graduate thesis: "Funding programs from national and European resources: Overview and critical evaluation of actions for the development of Technical and Vocational Education", University of the Aegean, 2007.

### 6.2 Papers in International Scientific Journals

6.2.1 Stefanos M. Skolianos, **Azarias A. Mavropoulos**, Solidification microstructure and heterogeneous nucleation phenomena in cast SiC<sub>p</sub>-reinforced hypereutectic Al-Si alloy composites, Scandinavian journal of metallurgy, 34: 16-21, 2005

6.2.2 H. Omar, N. Michailidis, S. Skolianos, **A. Mavropoulos**, S.A. Tsipas, N. Maragoudakis, Determination of mechanical and corrosion properties of boride coating on P91 steel, Key Engineering Materials Vol. 438 (2010) pp 89-96

### 6.3 Papers in International Conferences

6.3.1 **Azarias A. Mavropoulos**, Microstructure evolution during solidification of SiC<sub>p</sub>-reinforced hypereutectic Al-Si alloy composites, Stefanos M. Skolianos, ICMEN Conference, Kassandra-Halkidiki-Greece, October 3-4, 2002

6.3.2 A.A Pampouri, M. L. Tsipa, **A. A. Mavropoulos**, D.N. Tsipas, Development and implementation of a pilot internal evaluation procedure for postgraduate engineering courses. Proceedings of the 3rd international conference on New Horizons in Industry and Education, August 28-29, 2003

7.3.3 **Azarias A. Mavropoulos** & Anastasia A. Pampouri, Funding programs to develop and introduce New Technologies in Technical and Vocational Education. Historical Research. In 13th International Conference

ICT in the education of the Balkan countries, Varna, June 17 – 19, 2010

## **6.4 Papers in National conference**

6.4.1 **Mavropoulos A.**, S. Skolianos, Effect of thermal treatment on corrosion behavior of high strength aluminum alloys, Proceedings of the 4th National Conference of metallic materials, 4-5 November 2010, Thessaloniki, p. 191-198.

6.4.2 **Mavropoulos A.**, S. Skolianos, Solidification of aluminium matrix composite AA2024 reinforced with particles of SiC<sub>p</sub>, Proceedings of the 4th National Conference of metallic materials, 4-5 November 2010, Thessaloniki, p. 421-427.

6.4.3 Soulakis A., **A. Mavropoulos**, S. Skolianos, Corrosion and effects of corrosion in metal-working industries in Central Macedonia, Proceedings of the 4th National Conference of metallic materials, 4-5 November 2010, Thessaloniki, p. 217-221.

## **7. ICT SKILLS**

- ECDL (European Computer Driving Licence)
- Teachers' certification training in ICT
- Knowledge of design packages: Pro / ENGINEER, Solid Works.

### **• FOREIGN LANGUAGES:**

English

### **• AWARDS:**

1999 - 2000: Operational Program 'Education and Initial Vocational Training' II Scholarship for postgraduate studies in the "Processes and Technology of Advanced Materials. Interdisciplinary Studies Program. Aristotle University of Thessaloniki.

### **• LEISURE ACTIVITIES**

Sailing, winter swimming, cycling, literature