

Athanasios P. Masouras, Dipl. - Ing.

Personal Data

Nationality: Greek

Degree: Dipl. – Ing. Mechanical and Aeronautics

Position: Composites Research Engineer (PhD Candidate)

Applied Mechanics Laboratory

Department of Mechanical Engineering and Aeronautics

University of Patras

Date – Place of Birth: 14/11/1986, Cholargos, Athens, Greece

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Summary

- Mechanical and aeronautics engineer (Dipl. – Ing. From University of Patras, Greece, 2010) specializing in applied mechanics and composite materials. After completing my Diploma thesis at the University of Patras (UoP) and graduating, I enrolled as PhD candidate at the Applied Mechanics Laboratory (UoP).
- **The field of my PhD Research is:**
Development of nano-material organized structures and integration into composites for the development of multifunctional materials.
- Research interests: Composite Material Manufacturing, Composite Material Nano – Modifications, Multifunctional Material Systems, Structural Health Monitoring (SHM), Non – Destructive Techniques.

Education

Ph.D. Studies at Mechanical Engineering and Aeronautics Department
University of Patras, Greece

2010 - Present

Diploma in Mechanical Engineering and Aeronautics, (Dipl. – Ing.)
University of Patras, Greece

2004 - 2010

Thesis: Physical, Electrical, Thermal and Thermomechanical characterization of Non-Conventional Nano - modified Polymers with 2D/ 3D Preorganized CNTstructures.

Memberships and Affiliations

- Member of Technical Chamber of Greece (TEE) since 2011, Member of the Delegation, Department of Western Greece and Ionian Islands, since 2013
- Member of the Association of Mechanical and Electrical Engineers of Greece, Department of West Greece, Member of the board, since 2012

Involvement in Research Projects

- ESA NACO 1 & 2: Non – conventional Matrix/CNT – reinforced composite for applications in Space, 2007 – 2013.
- EU – FP7 – AAT – ELECTRICAL: Novel aeronautical multifunctional composite structures with bulk electrical conductivity and self – sensing capabilities, 2010 – 2013.
- ESA NAFO: Use of Nanocomposite Reinforced Foams For Manufacture of Superlightweight Stiff Sandwich Panels, 2013 – 2015.
- ESA NEFELI: Development of Nano-Enabled Fibre Reinforced Plastics, 2013 – 2015.
- GRACE: Novel graphene modified CFRPs for improved damage tolerance behavior and multifunctional characteristics, 2014 – 2015.
- ESA GADGET: Graphene-based systems for enhanced energy storage, 2015 - Present

Publications

Conference Presentations

- 1) Nanotechnologies for Composite Structures – from Nanocomposites to Multifunctional Nano- Enabled FRP for Spacecrafts, 9th ESA Round Table on Micro Nano Technologies, Lausanne June 2014
- 2) Development of nanocomposite material films and integration into CFRPs for the development of multifunctional structures, ICCM 20, Copenhagen, July 2015

Conference Proceedings

- 1) First Results on Use of Nanocomposite Reinforced Foams for Manufacture of Super-lightweight Stiff Sandwich Panels, 9th ESA Round Table on Micro Nano Technologies, Lausanne June 2014
- 2) Novel Composites Reinforced with Bucky Papers or Bucky Disks for Space Applications, 9th ESA Round Table on Micro Nano Technologies, Lausanne June 2014

Conference Posters

- 1) Additive Manufacturing Concepts for Composite Materials and Structures: Nano-Materials and Cellular Structures, ESA Additive Manufacturing Workshop, ESTEC Noordwijk, The Netherlands, October 2014