

Theoni Assimakopoulou

Born	Patras, September 10 th 1978
Marital status	Single
Postal address	16, Selemnou street, Patras, GR 264 42, Greece
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Education

2009–present	Post-doctoral researcher Department of Mechanical Engineering & Aeronautics, Univ. of Patras
2009	Defense of Ph.D thesis Dissertation: Damage assessment in laminated composite structures using acoustic methods
2002–2009	Ph.D candidate Department of Mechanical Engineering & Aeronautics, Univ. of Patras
2001	Degree in Mechanical Engineering & Aeronautics (7.94), Dip. Eng., top 5%
1996–2001	Undergraduate studies Department of Mechanical Engineering & Aeronautics, Univ. of Patras Master thesis: Assessment of structural integrity in laminated fiber-reinforced composite components 4 th year thesis: Influence of stress ratio on the rate of crack propagation, in aluminum 2024 T3 under fatigue loading
1996	Diploma, 6 th High-school of Patras

Foreign languages

English	Fluent verbal skills, excellent writing Cambridge Certificate of Proficiency in English
French	Basic level Certificat de Langue Francaise

Computing skills

Common tools	MS Windows, DOS, Word, Powerpoint, Project, Explorer
Spreadsheets	Excel, Axum, Origin
Programming	MatLab, FORTRAN
Pattern recognition	Noesis
Data acquisition	Catman
Engineering design	AutoCAD, SolidWorks

Engineering skills

Experienced user of engineering equipment	MTS & Dennison–Mayes test machines, 407 MTS controller Panametrics Model 9100 ultrasonic device (A–scan) HBM Spider8 data acquisition device MISTRAS, Spartan & TRA boards for Acoustic Emission monitoring & Ultrasonics Acoustic Emission and Ultrasonic transducers, relevant equipment
Testing	Great experience in mechanical characterization of composites/metals Static, constant & variable amplitude fatigue loading Strain measurements (strain & clip gauges) Application of international standards Specimen preparation, bonding of tabs & strain–gauges, wiring & connections
Non–Destructive Inspection	Great experience in Acoustic Emission, Acousto–Ultrasonics & Ultrasonics in composite materials (damage assessment) Implementation of PR techniques Thickness gauging

Working experience in engineering

2011–present	Engineering work for W/T blade repair enterprise COMPBLADES S.A. Rebuilding of the database containing the experimental results of all R&D activities, technical reporting and renovation of COMPBLADES profile
2011–present	Consulting services for ADVENT TECHNOLOGIES S.A. regarding the design and development of a fuel cell
2009–present	Scientific and laboratory associate, Department of Mechanical Engineering, Patras Technical Foundation
2001–2011	Experimental & research work in the frame of EC–funded projects Participation in project meetings, author of numerous technical reports UPWIND: Integrated Wind Turbine Design OPTIMAT BLADES: Reliable Optimal Use of Materials for Wind Turbine Rotor Blades MEGAWIND: Development of a MW scale wind turbine for high wind complex terrain sites DAMPBLADE: Wind Turbine Rotor Blades for Enhanced Aeroelastic Stability and Fatigue Life Using Passively Damped Composites AEGIS: Acoustic Emission Proof Testing and Damage Assessment of Wind Turbine Blades
2000	Internship at CRES (Center for Renewable Energy Sources & Saving) on ultrasonic inspection of composite materials

International journal publications

2010	D. J. Lekou, T. T. Assimakopoulou, T. P. Philippidis. Estimation of the uncertainty in measurement of composite material mechanical properties during static testing. <i>Strain</i> 2010, 47(5):430–438
2008	T. P. Philippidis, T. T. Assimakopoulou. Strength degradation due to fatigue–induced matrix cracking in FRP composites: an acoustic emission predictive model. <i>Compos Sci</i>

- 2008 T. P. Philippidis, T. T. Assimakopoulou. Using acoustic emission to assess shear strength degradation in FRP composites due to constant and variable amplitude fatigue loading. *Compos Sci Technol* 2008, 68(3–4):840–847

Publications in international conference proceedings

- 2011 T. T. Assimakopoulou, T. P. Philippidis. Plate wave propagation as damage indicator in FRP composites under fatigue loading. *Proceedings of NDTMS 2011, Istanbul, Turkey*
- 2010 N. A. Chrysohoidis, T. T. Assimakopoulou, D. A. Saravanos. Nonlinear wave SHM method using an active nonlinear piezoceramic sensor for damage detection in composites. *AIAA/ASME/ASCE/AHS/ASC Structures, Structural Dynamics and Materials Conference 2010*, art. no. 2010-2902, Orlando, Florida, USA
- 2009 D. J. Lekou, T. T. Assimakopoulou, T. P. Philippidis. Estimation of the uncertainty in measurement of composite material mechanical properties during static testing. *Proceedings of EWEC 2009 (Scientific Track), Marseille, France*, 36–41
- 2008 T. T. Assimakopoulou, T. P. Philippidis. An AE-model for residual strength prediction in fatigued FRP composites: parameter investigation. *EWGAE 2008, Krakow, Poland*
- 2007 T. T. Assimakopoulou, T. P. Philippidis. Damage assessment of composites after fatigue by means of acoustic methods. *ETNDT 2007, Stuttgart, Germany*
- 2006 T. T. Assimakopoulou, T. P. Philippidis. Damage monitoring of FRP composites through combined NDT measurements. *EWEC 2006, Athens, Greece*
- 2004 D. A. Saravanos, D. Varelis, T. S. Plagianakos, N. A. Chrysochoidis, T. T. Assimakopoulou, A. E. Antoniou, T. P. Philippidis. Modeling and design of composite wind turbine blades for enhanced damping. *EWEC 2004, Delft, The Netherlands*, 568-581
- 2004 A. E. Antoniou, T. T. Assimakopoulou, T. P. Philippidis. Delamination detection in thick composite laminates using guided ultrasonic waves. *ECCM 2004, Rhodes, Greece*
- 2003 A. G. Dutton, M. J. Blanch, P. Vionis, D. Lekou, D. R. V. van Delft, P. A. Joosse, A. Anastassopoulos, D. Kouroussis, T. Kossivas, T. P. Philippidis, T. T. Assimakopoulou, G. Fernando, C. Doyle, A. Proust. Acoustic emission condition monitoring of wind turbine rotor blades: Laboratory certification testing to large scale in-service deployment. *EWEC 2003, Madrid, Spain*

Publications in national conference proceedings

- 2002 A. E. Antoniou, T. T. Assimakopoulou, T. P. Philippidis. An acousto-ultrasonic approach for defect identification in FRP plates. *Acoustics 2002, Patras, Greece*

Chapters in books

- 2010 T. T. Assimakopoulou, T. P. Philippidis. Health monitoring of composite structures based on acoustic emission measurements. In *Fatigue Life Prediction of Composites and Composite Structures*, 466–504, Ed. A. P. Vassilopoulos, Woodhead Publishing Limited, 2010

Other information

Member of the Technical Chamber of Greece since 2002

Two annual state scholarship prizes for top undergraduate student performance

Graduation prize from the Technical Chamber of Greece

Invited lecturer in the Department of Materials Science & Engineering, University of Ioannina

Co-founding member of the Greek branch of EUROAVIA (European Association of Aerospace Students)

Personal qualities

Hard worker, responsible, precise, reliable, careful, self-motivated, strict with deadlines

Great organizing and management capabilities, social, team worker, versatile, able to adapt to changes

Honest and direct

Leisure

Handwork, salsa & tango dancing, team board games, reading