

Curriculum Vitae

Personal information

Surname(s) / First name(s) **Kordatos Evangelos**
Address(es) Omirou 33, Anatoli Ioannina, 45500, Greece
Telephone(s) Mobile: (+306948307903)
E-mail ekordat@cc.uoi.gr
Nationality Hellenic
Date of birth 19/10/1982
Gender male

Work experience

Dates 2010 -
Occupation or position held GRSC (Greek Atomic Energy Commission)
Main activities and responsibilities Maintenance of the Radiation Detector Portals in the Greek - Albanian and Greek – F.Y.R.O.M. borders

Dates 2009 -
Occupation or position held Undergraduate Assistant (Tutoring) at University of Ioannina-Department of Materials science & Engineering
Main activities and responsibilities Participation in the lecture of the undergraduate course: "Non-Destructive Methods"

Dates 2009 - 2010
Occupation or position held Undergraduate Assistant (Tutoring) at University of Ioannina-Department of Materials science & Engineering
Main activities and responsibilities Participation in the lecture of the undergraduate course: "Fracture Mechanics"

Dates 2008 -
Occupation or position held Technical and Undergraduate Assistant (Tutoring) at University of Ioannina-Department of Materials science & Engineering - Mechanics, Smart Sensors & Nondestructive Evaluation Laboratory
Main activities and responsibilities Participation in the lecture of the undergraduate course: "Laboratory of Mechanics and Strength of Materials"

Research projects

Dates	2009 - 2012
Occupation or position held	Research Assistant at (IAPETUS), “Innovative Repair of Aerospace Structures with Curing Optimization and Life Cycle Monitoring Abilities” Project No. ACP8-GA-2009-234333
Main activities and responsibilities	Thermography
Dates	2012 - 2013
Occupation or position held	Research Assistant at “Optimal operation and maintenance of bridges and road networks” (This research project has been co-financed by the European Union (European Regional Development Fund- ERDF) and Greek national funds through the Operational Program “THESSALY- MAINLAND GREECE AND EPIRUS-2007-2013” of the National Strategic Reference Framework (NSRF 2007-2013))
Main activities and responsibilities	Development of non-destructive methods for characterization of damage using thermographic techniques.

Education and training

Dates	2008 -
Title of qualification awarded	PhD candidate
Principal subjects/occupational skills covered	PhD Thesis Title: “Nondestructive characterization of the thermo-mechanical behavior of advanced materials with thermographic methods”
Name and type of organisation providing education and training	Department of Materials Science and Engineering, University of Ioannina
Dates	2010-2012
Title of qualification awarded	(M.Sc.) in “Chemistry and Technology of Materials”
Principal subjects/occupational skills covered	Master Thesis Title: Non-destructive evaluation of the energy efficiency of buildings and assessment of the mechanical behaviour of structural elements
Name and type of organisation providing education and training	Department of Materials Science and Engineering and Department of Chemistry, University of Ioannina.
Dates	2000-2008
Title of qualification awarded	Diploma in Materials Engineering (5-year course)
Principal subjects/occupational skills covered	Diploma Thesis Title: ‘Development of optical lock-in thermography methodology for the non-destructive evaluation of metallic materials’
Name and type of organisation providing education and training	Department of Materials Science and Engineering, University of Ioannina

Personal skills and competences

Mother tongue(s)	Greek
Other language(s)	English
Title of qualification awarded	Certificate of Proficiency in English, Michigan
Other language(s)	German
Title of qualification awarded	Basic Level in Reading, Writing and Verbal skills

Computer skills and competences

MS Office (Word, Excel, Access, PowerPoint), Autocad, C++, Pascal, Fortran, Basic, Image Pro Analysis, Adobe Photoshop,

Additional information

PUBLICATIONS

International refereed journals

1. Cyclic Loading of a SiC-Fiber Reinforced Ceramic Matrix Composite Reveals Damage Mechanisms and Thermal Residual Stress State
K. G. Dassios, D. G. Aggelis, **E. Z. Kordatos**, T. E. Matikas, *Composites Part A: Applied Science and Manufacturing*, published online, doi:
<http://www.sciencedirect.com/science/article/pii/S1359835X12001844?v=s5>, (2012).
2. Infrared Thermographic Inspection of Murals and Characterization of Degradation in Historic Monuments
E. Z. Kordatos, D. A. Exarchos, C. Stavrakos, A. Moropoulou, T. E. Matikas, *Construction and Building Materials*, published online, doi: <http://www.sciencedirect.com/science/article/pii/S0950061812004540>, (2012).
3. Monitoring Mechanical Damage in Structural Materials Using Complimentary NDE Techniques Based on Thermography and Acoustic Emission
E. Z. Kordatos, D. G. Aggelis, T. E. Matikas, *Composites Part B: Engineering*, vol. 43(6), pp. 2676–2686, (2012).
4. Crack-Tip Stress Field and Fatigue Crack Growth Monitoring Using Infrared Lock-in Thermography in A359/Sicp Composites
D. P. Myriounis, **E. Z. Kordatos**, S. T. Hasan, T. E. Matikas, *Strain*, vol. 47(SUPPL.

1), pp. e619-e627, (2011).

5. Innovative Non-Destructive Evaluation and Damage Characterization of Composite Aerostructures Using Thermography
S. A. Grammatikos, **E. Z. Kordatos**, N.-M. Barkoula, T. E. Matikas, A. S. Paipetis, *Plastics, Rubber and Composites*, vol. 40(6/7), pp. 342-348, (2011).
6. NDT Approach for Characterization of Subsurface Cracks in Concrete
D. G. Aggelis, **E. Z. Kordatos**, M. Strantzà, D. V. Soulioti, T. E. Matikas, *Construction and Building Materials*, vol. 25(7), pp. 3089-3097, (2011).
7. Monitoring of Metal Fatigue Damage Using Acoustic Emission and Thermography
D. G. Aggelis, **E. Z. Kordatos**, T. E. Matikas, *Journal of Acoustic Emission*, vol. 29, pp. 113-122, (2011).
8. Acoustic Emission for Fatigue Damage Characterization in Metal Plates
D. G. Aggelis, **E. Z. Kordatos**, T. E. Matikas, *Mechanics Research Communications*, vol. 38(2), pp. 106-110, (2011).
9. Combined Use of Thermography and Ultrasound for the Characterization of Subsurface Cracks in Concrete
D. G. Aggelis, **E. Z. Kordatos**, D. V. Soulioti, T. E. Matikas, *Construction and Building Materials*, vol. 24(10), pp. 1888-1897, (2010).

Refereed Conference Proceedings

10. A.S. Paipetis, S. A. Grammatikos, **E. Z. Kordatos**, T. E. Matikas, "Low-Velocity Impact Damage Identification Using a Novel Current Injection Thermographic Technique", Proc. of the SPIE Conference on Smart Sensor Phenomena, Technology, Networks, and Systems, Article number 8346-45, (SPIE - The International Society for Optical Engineering, San Diego, CA, 2012).
11. A.S. Paipetis, S. A. Grammatikos, **E. Z. Kordatos**, D. G. Aggelis, T. E. Matikas, "Critical and Subcritical Damage Monitoring of Bonded Composite Repairs Using Innovative Non-Destructive Techniques", Proc. of the SPIE Conference on Smart Sensor Phenomena, Technology, Networks, and Systems, Article number 8346-36, (SPIE - The International Society for Optical Engineering, San Diego, CA, 2012).
12. **E. Z. Kordatos**, T. E. Matikas, "Real-Time Characterization of Damage in Metal Matrix Composites Using Ir Thermography", Proc. of the SPIE Conference on Smart Sensor Phenomena, Technology, Networks, and Systems, Article number 8346-42, (SPIE - The International Society for Optical Engineering, San Diego, CA, 2012).
13. **E. Z. Kordatos**, K. Dassios, P.-L. I. Lagari, T. E. Matikas, "Determination of Fatigue Limit in Composite Materials Using Ir Lock-in Thermography", Proc. of the 10th International Conference on Durability of Composite Systems (DURACOSYS

2012), (Brussels, Belgium, 17-19 September, 2012).

14. D. G. Aggelis, K. Dassios, **E. Z. Kordatos**, T. E. Matikas, "A Study on the Acoustic Emission Behavior of Ceramic Matrix Composites During Cyclic Loading", Proc. of the 10th International Conference on Durability of Composite Systems (DURACOSYS 2012), (Brussels, Belgium, 17-19 September, 2012).
15. A.S. Paipetis, S. A. Grammatikos, **E. Z. Kordatos**, N. M. Barkoula, T. E. Matikas, "In Service Damage Assessment of Bonded Composite Repairs with Full Field Thermographic Techniques", Proc. of the SPIE Conference on Nondestructive Characterization for Composite Materials, Aerospace Engineering, Civil Infrastructure, and Homeland Security, vol. 7983, Article Number 79831U, DOI: 10.1117/12.880376, (SPIE - The International Society for Optical Engineering, San Diego, CA, 2011)
16. **E. Z. Kordatos**, M. Strantz, D. V. Soulioti, T. E. Matikas, D. G. Aggelis, "Combined NDT Methods for Characterization of Subsurface Cracks in Concrete", Proc. of the SPIE Conference on Smart Sensor Phenomena, Technology, Networks, and Systems, vol. 7982, Article number 7982-33, DOI: 10.1117/12.881025, (SPIE - The International Society for Optical Engineering, San Diego, CA, 2011).
17. **E. Z. Kordatos**, D. V. Soulioti, M. Strantz, T. E. Matikas, D. G. Aggelis, "Thermography and Ultrasound for Characterizing Subsurface Defects in Concrete", Proc. of the NDTMS-2011, (Istanbul, 15-18 May 2011).
18. **E. Z. Kordatos**, T. E. Matikas, "Developing Damage Metrics for Metallic Structures Undergoing Fatigue Using Real-Time Thermographic Evaluation", Proc. of the SPIE Conference on Smart Sensor Phenomena, Technology, Networks, and Systems, vol. 7982, Article Number 79820U, DOI: 10.1117/12.881019, (SPIE - The International Society for Optical Engineering, San Diego, CA, 2011).
19. **E. Z. Kordatos**, D. A. Exarchos, C. Stavrakos, A. Moropoulou, T. E. Matikas, "Application of Ir Thermography to Damage Characterization of Structures and the Diagnosis of Historic Monuments", Proc. of the 5th International Conference on Emerging Technologies in Non-Destructive Testing (ETNDT5), pp. 77-81, (Ioannina, Greece, September 19-21 2011).
20. **E. Z. Kordatos**, D. G. Aggelis, T. E. Matikas, "Monitoring of Fracture Behaviour in Structural Materials by Thermography and Acoustic Emission", Proc. of the Micromechanics and Modeling of Multifunctional Materials 2011 (MMMM11), (Thessaloniki, Greece, July 14-15 2011).
21. **E. Z. Kordatos**, D. G. Aggelis, T. E. Matikas, "Thermography and Acoustic Emission for Monitoring the Fracture of Aluminium Plates", Proc. of the NDTMS-2011, (Istanbul, 15-18 May 2011).
22. **E. Z. Kordatos**, D. G. Aggelis, T. E. Matikas, "Monitoring of Fatigue Damage in Metal Plates by Acoustic Emission and Thermography", Proc. of the SPIE Conference on Smart Sensor Phenomena, Technology, Networks, and Systems, vol. 7982, Article number 7982-32, DOI: 10.1117/12.881021, (SPIE - The International Society for Optical Engineering, San Diego, CA, 2011).

23. S. Grammatikos, **E. Kordatos**, N.-M. Barkoula, T. E. Matikas, A. Paipetis, "In Service Damage Assessment of Bonded Composite Repairs with Full Field Thermographic Techniques", Proc. of the Micromechanics and Modeling of Multifunctional Materials 2011 (MMMM11), (Thessaloniki, Greece, July 14-15 2011).
24. S. A. Grammatikos, **E. Z. Kordatos**, N. M. Barkoula, T. E. Matikas, A. Paipetis, "Innovative Non-Destructive Evaluation and Damage Characterization of Composite Aerostructures", Proc. of the 14th European Conference on Composite Materials (ECCM14), Paper ID: 802, (Budapest, Hungary, June 2010).
25. S. Grammatikos, **E. Kordatos**, N. M. Barkoula, T. Matikas, A. Paipetis, "Repair Integrity Monitoring of Composite Aerostructures Using Thermographic Imaging", Proc. of the SPIE Conference on Nondestructive Characterization for Composite Materials, Aerospace Engineering, Civil Infrastructure, and Homeland Security, vol. 7649, Article number 76491D, DOI: 10.1117/12.847611, (SPIE - The International Society for Optical Engineering, San Diego, CA, 2010).
26. D. G. Aggelis, **E. Z. Kordatos**, T. E. Matikas, "Monitoring of Acoustic Emission During Fatigue of Metal Plates", Proc. of the 20th International Acoustic Emission Symposium, vol. Progress in Acoustic Emission XV, JSNDI, pp. 73-78, (Kumamoto, Japan, 16-19 November 2010).
27. M. A. Strantzla, **E. Z. Kordatos**, D. V. Soulioti, T. E. Matikas, D. G. Aggelis "Use of thermography and ultrasound for characterization of subsurface cracks in concrete" 7th National Conference in Nondestructive Testing, Athens, 15-17/10/2010. (in CD)
28. D. G. Aggelis, **E. Z. Kordatos**, T. E. Matikas, "Acoustic emission for fatigue damage characterization on metal Plates" 7th National Conference in Nondestructive Testing, Athens, 15-17/10/2010. (in CD)
29. S. A. Grammatikos, **E. Z. Kordatos**, D. G. Aggelis, N. M. Mparkoula, T. E. Matikas, A. Paipetis, "Non-destructive inspection of repair patches in aeronautic materials" 7th National Conference in Nondestructive Testing, Athens, 15-17/10/2010. (in CD)
30. **E. Z. Kordatos**, N. M. Mparkoula, A. Paipetis, T. E. Matikas, "Characterization of crack growth in metallic materials by non-destructive full field method", 7th National Conference in Nondestructive Testing, Athens, 15-17/10/2010. (in CD)
31. **E. Z. Kordatos**, D. P. Myriounis, S. T. Hasan, T. E. Matikas, "Monitoring the Fracture Behavior of SiCp/Al Alloy Composites Using Infrared Lock-in Thermography", Proc. of the SPIE Conference on Nondestructive Characterization for Composite Materials, Aerospace Engineering, Civil Infrastructure, and Homeland Security, vol. 7294, Article number 72940X, DOI: 10.1117/12.815207, (SPIE - The International Society for Optical Engineering, San Diego, CA, 2009).
32. D. G. Aggelis, **E. Kordatos**, A. Charalambopoulos, T. E. Matikas, "Characterization of Subsurface Damage in Concrete Using Rayleigh Waves and Thermography", Proc. of the The 5th Kumamoto International Workshop on Fracture, Acoustic Emission and NDE in Concrete (KIFA-5), (Kumamoto, Japan, 17-18 September 2009).