

CURRICULUM VITAE

DIONYSIOS T. G. KATERELOS

Dr. Dipl. Mechanical Engineer

Department of Mechanical Engineering & Aeronautics, University of Patras

Assistant Professor

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Education: 2004 PhD in Mechanical Engineering, University of Patras

1996 – 2004 Post graduate student – PhD candidate, University of Patras, Mechanical & Aeronautical Engineering Department

1995 Diploma in Mechanical Engineering, University of Patras, Greece

1992 – 1995 Specialisation on Applied Mechanics of Materials and Structures

1990 – 1995 University of Patras, Mechanical Engineering Department

1984 – 1990 “Petritseion” High school of Lixouri

Present position:

Dr Dipl Mechanical Engineer of University of Patras

Collaborator, Mechanical Engineering & Aeronautics Department, Univ. of Patras

Collaborator, Luleå University of Technology, Division of Polymer Engineering

Assistant Professor, Department of Sound and Musical Instruments Technology,

Technological Educational Institute of Ionian Islands

Previous occupation:

2006 – 2007 Post Doctoral Researcher, Division of Polymer Engineering, Department of Applied Physics and Mechanical Engineering, Luleå University of Technology, Luleå, Sweden (Swedish Institute Guest Scholarship)

2005 – 2006 Adjunct Assistant Professor at the Technological Educational Institute of Mesologgi Greece, Agriculture Mechanical and Water Resources Department

2004 – 2006 Adjunct Assistant Professor at the Technological Educational Institute of Patras, Greece, Mechanical Department

2004 – 2006 Post Doctoral Researcher F.O.R.T.H

2004 Managing and conducting of training courses for the maintenance staff (general and technical education) of TRAM S.A. – Greece on the First and Second Maintenance Level of Athens Sirio Tram vehicles in collaboration with the

companies P.E.C. Italia S.r.l. and AnsaldoBreda C.F. (manufacturer)

1998 – 2004 Research assistant, collaborating staff of the Mechanics of Materials Laboratory, F.O.R.T.H./I.C.E.-H.T.

1995 – 2004 Research assistant, as post – graduate student, University of Patras, Mechanical Engineering and Aeronautics Department, Applied Mechanics Laboratory

1993 – 1995 Research assistant, as pre – graduate student, University of Patras, Mechanical Engineering Department, Applied Mechanics Laboratory

1992 – 1993 Research assistant, as pre – graduate student, University of Patras, Mechanical Engineering Department, Strength and Technology of Materials Laboratory

Scholarships - Awards: 2002 – 2003 F.O.R.T.H./I.C.E.-H.T. Scholarship

2003 – 2004 F.O.R.T.H./I.C.E.-H.T. Scholarship

2006 – 2007 Swedish Institute Guest Scholarship for Post Doctoral research at the Luleå University of Technology

“*In-Situ Damage Monitoring of Cross-Ply Laminates using Acoustic Emission*” by G. Sotiriadis, T. Loutas, A. Paipetis, D. T. G. Katerelos, V. Kostopoulos and S. L. Ogin, Proceedings of ECCM 13, June 2 – 5, 2008, Stockholm, Sweden, awarded as the Best Poster Presentation by the European Society of Composite Materials Council.

Research activities: (a) *Composite Materials*. Mechanical Behaviour and Modeling of Composite Materials. (b) *Fatigue and Fracture Mechanics of Composite Materials*. Behaviour of Composite Materials under various Loading Cases (Static and Cycling) in the presence of Stress Concentration Locations. Experimental, Analytical and Numerical Approaches. (c) *Non – Destructive Testing* (C-Scan ultrasonic, Acoustic Emission). (d) Monitoring of the mechanical behaviour of Composite Materials using *Laser Raman Spectroscopy*. (e) *Composite Materials in Civil Engineering Applications*. (f) *Biomedical Technology and Biomaterials (Orthopedics and Dental Applications)* (g) *Composite Materials in Transportation*. (h) *Composite Materials in Music Instruments Applications – Acoustics*. (i) *Mechanics of Nano – composites*

Computing Experience: DOS, Windows, QuickBasic and Fortran Programming, Design software (AutoCAD, 3D Studio), Finite and Boundary Element Analysis software (MSC/NASTRAN, ANSYS, IsoBEM), Mathematical (Mathematica, MatLab) and Statistical (SPSS, Statistica) software, Word processing (Ms Word, WordPerfect etc.), Spreadsheet (Ms Excell), Grapher, Origin, Room Acoustical Design software (Odeon, Dirac, Ease), Signal processing software (LabVIEW), Internet.

Languages: Greek (mother language), English (fluent)

- Participation in Research Projects:**
- i. **BRITE/EURAM BRE2-CT92-0320** “Design, Modeling and Control of a New Process for Glassfiber Preform Manufacture with Minimization of Scraps, Improvement of Working Conditions and without Environmental Impact”, University of Patras, 1996, as Research Engineer
 - ii. **ESPRIT** Project 22367 “Quality engineering tools for assembly and small batches manufacturing (QUETA)”, University of Patras, 1999, as Research Engineer
 - iii. **BRITE/EURAM BRPR-CT95-0066** “Digital Mock – up Process Simulation for Product Conception and Downstream Processes”, University of Patras, 1999, as Research Engineer
 - iv. **BRITE/EURAM BRPR-CT99-0741** “Virtual Reality Environment for the Simulation of Critical Industrial Processes Involving Human Intervention (VIRTUE)”, University of Patras, 2001, as Research Engineer
 - v. **G1RD-CT2002-00674-INTERMAR** “Intelligent Supply Chain Management for the extended Maritime Enterprise”, University of Patras, 2002, as Research Engineer
 - vi. **IST-2001-37603** “Lifecycle Design for Global Collaborative Production (LICOPRO)”, University of Patras, 2003, as Research Engineer
 - vii. **BRITE/EURAM IST-2000-29357** “Integrated Technology for Dynamic Simulation and Advanced Visualization of Human Motion in Virtual Environments - REALMAN”, 2003-2004, as Research Engineer
 - viii. **FP6 IP 507592** “Intelligent Logistics for Innovative Product Technologies - I-LIPT”, 2004-2005, as Research Engineer
 - ix. **FP6 IST-2001-52223** “Coaching Support Tool to Identify Working Process Improvements through Introduction of Intelligent Manufacturing System Solutions - COSTWORTH”, 2005-2006, as Research Engineer
 - x. **91ED813** “Optimization of a prototype osteosynthesis plate. Theoretical Study and Manufacturing” **PENED '91**, University of Patras, 1996, as Research Engineer
 - xi. **95ED1297** “Study of the Fatigue Mechanisms at the Interface of Composite Materials and their Effect on the Macroscopical Properties” **PENED '95**, University of Patras, 1997, as Research Engineer
 - xii. **95ED615** “Fatigue of Composite Materials. New Non – Destructive Methods for the Determination of the Residual Strength and Life of Composite Structures. Damage Tolerance Design” **PENED '95**, University of Patras, 1998, as Research Engineer
 - xiii. **EPET II, 97EKBAN2-43** “Design and Construction of a Polymeric Composite Bridge, New Materials in Construction”, FORTH/ICE-HT, 1998 – 2001, as Research Engineer
 - xiv. **PABE99BE357** “Method Development for the Ecological Design of Environment Friendly Products” FRIGOGLASS ABEE, University of Patras, 2000, as Research Engineer
 - xv. **PRAXE – 201** “New Materials in Construction”, FORTH/ICE-HT, 2004, as Supervising Research Engineer
 - xvi. **EPEAEK – KPS II** “Reformation of pre-graduate Courses at Technological Educational Institute of Patras” – sub task “Self – supervision of the Mechanical Department”, Technological Educational Institute of Patras, 2005
 - xvii. Support – Tutorials Project in Mechanical Engineering and Aeronautics Department, University of Patras, 1996 – 1997, 1997 – 1998, 1999 – 2000, 2000 – 2001 and 2002
 - xviii. **NANOFUN-POLY NoE**, 2005 – today

- xix. “Support and Promotion of the **Multi-Insular Universities** as International Centres for Higher Education and Research”. Action: “Maintenance and Reconstruction of Wind and Percussion Musical Instruments”, 2011 – 2014, as Action Coordinator
- xx. **COST, Action FP1302: WOOD MUSICK**, Management Committee Member
- xxi. **Ionian Islands TEI Open Access Academic Courses**, 2014 – 2015

- Conference participation:**
- i. **AGARD Lecture Series 190**. “A Recommended Methodology for Quantifying NDE/NDI Based on Aircraft Engine Experience, May 3 – 4, 1993, Patras, Greece
 - ii. *First Joint Belgian – Hellenic Conference on Non Destructive Testing*, May, 22 – 23, 1995, Patras, Greece
 - iii. *First Hellenic Conference on Composite Materials and Structures, HELLAS – COMP '97*, July 2 – 5, 1997, Xanthi, Greece
 - iv. *NATO R&TO (former AGARD)* “Applied Vehicle Technology Panel”, October 5 – 8, 1998, Corfu, Greece
 - v. *European Conference on Composite Materials, ECCM 9*. “Composites – From Fundamentals to Exploitation”, June 4 – 7, 2000, Brighton, UK
 - vi. *European Conference on Composite Materials, ECCM 10*. “Composites for the Future”, June 3 – 7, 2002, Brugge, Belgium
 - vii. 5th International Symposium on Advanced Composites, **COMP '03: ADVANCES IN COMPOSITE TECHNOLOGY**, May 5 – 7, 2003, Corfu, Greece
 - viii. **4th Hellenic Scientific Conference on Chemical Engineering**, Patras, May 29 – 31, 2003
 - ix. “**Recent Advances in Experimental Mechanics – In Honor of Professor S. A. Paipetis**” Symposium, June 12 – 14, 2003, Xanthi, Greece
 - x. 9th International PVC Conference, April 26 – 28, 2005, Brighton, England
 - xi. *European Conference on Composite Materials, ECCM 11*. “from Nano – Scale Interactions to Engineering Structures”, May 31 – June 4, 2004, Rhodes, Greece, (organizing group)
 - xii. *XIV International Conference on Mechanics of Composite Materials, MCM-2006*, May 29 – June 2, 2006, Riga, Latvia
 - xiii. *16th European Conference of Fracture, ECF-16*, “Failure Analysis of Nano and Engineering Materials and Structures”, July 3 – 7, 2006, Alexandroupolis, Greece (session organizer and co-Chair)
 - xiv. *European Conference on Composite Materials, ECCM 12*, “From the Science of Composites to Engineering Applications: the dawning future of composites”, August 29 – September 1, 2006, Biarritz, France
 - xv. *Deformation and Fracture of Composites, DFC9*, April 11 – 13, 2007, Sheffield, UK
 - xvi. **COMP07** 6th International Symposium on Advanced Composites, COMPOSITES AND APPLICATIONS FOR THE NEW MILLENNIUM, May 16 – 18, 2007, Corfu, Greece
 - xvii. **ICSAM 2007** The International Conference on Structural Analysis of Advanced Materials, September 2 – 6, 2007, Patras, Greece
 - xviii. *XV International Conference on Mechanics of Composite Materials, MCM-2008*, May 26 – 30, 2008, Riga, Latvia
 - xix. *European Conference on Composite Materials, ECCM 13*, “Composites for

- Sustainable Progress”, June 2 – 5, 2008, Stockholm, Sweden
- xx. *Deformation and Fracture of Composites*, **DFC10**, April 15 – 17, 2009, Sheffield, UK
- xxi. *Composites Damage: Status and Future Directions*, 2009, Lixouri, Greece (organizer)
- xxii. *International Conference on Composite Materials*, **ICCM 17**, July 27 – 31, 2009, Edinburgh, UK
- xxiii. *Composites Damage: Status and Future Directions – 2*, 2010, Seville, Spain
- xxiv. *5th International Conference on Composites Testing and Model Identification*, **COMPTEST 2011**, February 14 – 16, 2010, Lausanne, Switzerland
- xxv. *Composites Damage: Status and Future Directions – 3*, 2011, Rouen, France
- xxvi. *International Conference on Acoustic Ecology*, **WFAE – 2011**, *Crossing Listening Paths*, October 3 – 7, 2011, Corfu, Greece
- xxvii. **Acoustics 2012**, October 2012, Corfu, Greece
- xxviii. **10th Panionian Conference**, 2014, Corfu, Greece
- xxix. *Multidisciplinary approach to wooden musical instrument identification*, FPS COST Action FP1302 “Wood Musick”, Cremona, September 30 – October 1, 2014 (poster με θέμα: “Revisiting a unique design guitar”. Συγγραφείς: P. Sklavos, S. Andreou, N. Boukas, D. T. G. Katerelos)

Teaching Activities: Undergraduate courses: 1998: Tutorials: Mechanics I (Statics), Mechanical Engineering & Aeronautics Department, University of Patras

1995 – 1998: Supervision on the final year projects of University of Patras Department of Mechanical Engineering and Aeronautics graduate students

2004 – 2005: Lecturing in Technological Educational Institute of Patras – Mechanical Department. Tribology (Theory and Experimental Exercise) and Mechanical Laboratory I (Experimental Exercise)

2005 – 2006: Lecturing in Technological Educational Institute of Patras – Mechanical Department. Tribology (Theory and Experimental Exercise) and Materials Technology (Experimental Exercise)

2005 – 2006: Lecturing in Technological Educational Institute of Mesologgi – Agricultural Mechanical and Water Resources Department. Mechanics of Off-Road Vehicles (Experimental Exercise) and Work Safety & Environmental Protection (Theory)

2004 – 2006: Supervision of four (4) Graduation Projects at the Technological Educational Institute of Patras – Mechanical Department

- i. *A Study on Ceramic Composite Materials Car Brakes*
- ii. *Contemporary Grinding Techniques*
- iii. *Application of Neural Networks in Damage Mechanics of Composite Materials*
- iv. *Application of Neural Networks in Tribology*

2008 – today: Lecturing in Technological Educational Institute of Ionian Islands – Department of Sound and Musical Instruments Technology. Physics, Musical Instruments Acoustics, Electroacoustics, Room Acoustical Design, Safety at Work, Mathematics, Acoustics, Structural Materials, Music Technology in Education.

2008 – today: Supervision of Graduation Projects at the Technological Educational Institute of Ionian Islands –Department of Sound and Musical Instruments Technology:

- (1) “Research in the Design and Principles of Line Array Loudspeakers Systems”, 2009
 - (2) “The Consequences of Noise in Humans and Ways to Deal with Them”, 2009
 - (3) “Concentrated Study on the Sound and Music Affection in Humans”, 2010
 - (4) “Vallianeios School – Documentary”, 2010
 - (5) “Historical Review – Acoustics and Analysis of the Flute Operating Mechanism”, 2010
 - (6) “Sound in Cinema and its Development”, 2011
 - (7) “Flute Construction Materials (from Bone to Glass). Spectrographic Analysis of Sound in Flutes with Different Head Materials”, 2011
 - (8) “Psychoacoustics Effect of Music in Fetuses”, 2011
 - (9) “Literature Review in Musical Instruments Construction I”, 2011
 - (10) “Investigation of the Operating Way and Principles of HUMMOND Instrument emphasizing in LESLIE cabin”, 2011
 - (11) “Literature Review in Musical Instruments Construction II”, 2011
 - (12) “Wind-Turbine Acoustical Behavior”, 2012
 - (13) “Small Auditoriums Acoustical Design”, 2012
 - (14) “Literature Review of Musical Instruments Acoustical Properties – Guitar”, 2012
 - (15) “Clarinet Mechanisms Technology from 1700 to today and their Contribution in Musical Performance”, 2012
 - (16) “Closed Spaces Acoustical Design”, 2012
 - (17) “Piano History, Construction and Restringing”, 2012
 - (18) “Creation of an Impact Responses Library – Application to Convolution Reverb”, 2013
 - (19) “Electroacoustic Music and Noise”, 2013
 - (20) “Functional Principles and Analysis of an Electrical Guitar Electrical Circuit – Construction of a P-90 Type Magnetic Head”, 2014
 - (21) “Literature Review in Musical Instruments Construction (Winds)”, 2014
 - (22) “Line Array Systems Technology. Analysis of the most Representative Commercially Available Systems”, 2014
 - (23) “Literature Review in String Musical Instruments Acoustical Behavior”, 2014
 - (24) “Differences and Similarities between Traditional and Byzantine Music”, 2014
 - (25) “Ancient Greek and Roman Theaters Acoustics”, 2014
 - (26) “20th Century Musical Mutinies and their Effects in Society”, 2014
 - (27) “Study and construction of original Cretan and Constantinople lyre. Original composition and construction of a Constantinople lyre rosette using copper and iron filings”, 2014
- 2009 – today:** Co-supervision of a Doctoral Thesis in collaboration with the University of Portsmouth
- 2011:** Invited Lecturing at the Summer School “Composite and Smart Materials: Theory and Applications” organized at Ioannina in July 2011 by University of Ioannina, Aristotle’s University of Thessaloniki and Texas A&M University. Lecture: “Experimental Damage Mechanics in Composites”

Professional affiliations: *Society of Experimental Mechanics (SEM)*
American Society for Testing and Materials (ASTM)

Technical Chamber of Greece
Hellenic Society of Mechanical and Electrical Engineers (HSMEE)
European Society for Composite Materials (ESCM)
Institute of Materials (IoM), UK
Institute of Nano – materials and Nano – Techniques (IoN), UK
Hellenic Institute of Acoustics (HELINA), Greece

Military Service: 2001 – 2002, Hellenic Army, Heavy Artillery Division. Operational Duties under Classification

International Scientific Journals Reviewer:

Advanced Composites Letters (2004 – today)
STRAIN (2007 – today)
Composites Science and Technology (2007 – today)
Composites A (2011 – today)
Journal of Composite Materials (2014 – today)
Steel and Composite Structures, *An International Journal* (2015 – today)

Publications

Refereed Books (Chronological Order):

1. *“Mechanical Behaviour under Static and Dynamic Loading of Composite Materials in the presence of Stress Concentration Locations”*, PhD Thesis, Patras, 2004
2. *“Strain Redistribution in Composite Laminates resulting from off – axis ply cracking”* by D. G. Katerelos, J. Parthenios and C. Galiotis, in *“Recent Advances in Composite Materials – In Honor of S. A. Paipetis”*, Ed. E.E. Gdoutos and Z. Margioli – Riga, Kluwer Academic Publ. 139 – 150, 2003
3. *“Raman Spectroscopy Assessment of Matrix Cracking Results in GFRP Laminates”* by P. Lundmark, D. G. Katerelos, J. Varna and C. Galiotis, in *“Fracture of Nano and Engineering Materials and Structures”*, Ed. by E.E. Gdoutos, Springer publishers, 1277 – 1278, 2006
4. *“Experimental Determination of Stress Concentrations in Composite Laminates and their Effects on Damage Evolution”* by D. T. G. Katerelos and C. Galiotis, in *Applied Mechanics and Materials*, Vols. 5-6, Trans Tech Publications, 383 – 390, Switzerland, 2006
5. *“Carbon Reinforcements in Polymer Composites Acting as Stress, Strain, Thermal and Electrical Conductivity Sensors”* by D. T. G. Katerelos, in *“Recent Research Activities of Carbon-Related Materials –Nanoscale and Macroscale Reinforcements-”*, Ed. by H. Miyagawa, Transworld Research Network, 195 – 239 (after invitation from the Editor and the Publisher)

6. *“Post –impact fatigue behaviour of composite laminates: current and novel technologies for enhanced damage tolerance”* by A. Paipetis and D. T. G. Katerelos, in *“Composite Laminates: Properties, Performance and Applications”*, Ed. by F. Columbus, Nova Publishers, 2010, (after invitation from the Publisher)
7. *“Post –impact fatigue behaviour of composite laminates”*, by A. Paipetis and D. T. G. Katerelos, Nova Publishers, 2010, (after invitation from the Publisher)
8. *“Kefalonians in Sciences (Mathematics, Physics, Chemistry, Biology, Geology), Agriculture and Engineering”*, by D. T. G. Katerelos, Aegialos publications, Argostoli, 2014

Refereed Journal Papers (Chronological Order):

9. *“Measurement and Modeling of the Stress Concentration at a Circular Notch in Composite Materials”* by B. P. Arjyal, D. G. Katerelos, C. Filiou and C. Galiotis, *Experimental Mechanics* (Impact Factor-2007: 0.985), Vol. 40, No. 3, September 2000, 248 – 255
10. *“Aramid Fibres; a Multifunctional Sensor for Monitoring Stress / Strain Fields and Damage Development in Composite Materials”* by J. Parthenios, D. G. Katerelos, G. C. Psarras and C. Galiotis, *Engineering Fracture Mechanics* (Impact Factor-2010: 1.447), Vol. 69, No. 9, 2002, 1067 – 1087
11. *“A Simple Model for the Prediction of the Fatigue Delamination Growth of Impacted Composite Panels”* by D. G. Katerelos, A. Paipetis and V. Kostopoulos, *Fatigue & Fracture of Engineering Materials and Structures* (Impact Factor-2007: 0.726), Vol. 27, No. 10, 2004, 911 – 922
12. *“Axial Strain Re–Distribution Resulting From Off–Axis Ply Cracking in Polymer Composites”* by D. G. Katerelos and C. Galiotis, *Applied Physics Letters* (Impact Factor-2007: 3.596), Vol. 85, No. 17, 2004, 3752 – 3754
13. *“Local Strain Re – Distribution and Stiffness Degradation in Cross – Ply Polymer Composites under Tension”* by D. G. Katerelos, L. N. McCartney and C. Galiotis, *Acta Materialia*, (Impact Factor-2010: 3.760) Vol. 53, No. 12, 2005, 3335 – 3343
14. *“Design and construction of a Vehicular Bridge made of Glass/Polyester Pultruded Box Beams”* by V. Kostopoulos, Y.P. Markopoulos, D. E. Vlachos, D. Katerelos, C. Galiotis, T. Tsiknias, D. Zacharopoulos, D. Karalekas, *Plastics Rubber & Composites* (Impact Factor-2007: 0.431) Vol. 34, No. 4, 2005, 201 – 207
15. *“Investigation of the Free Edge Interlaminar Stresses Dependence on the Ply Thickness and Orientation”*, by D. T. G. Katerelos, *Advanced Composites Letters*, (Impact Factor-2007: 0.314) Vol. 15, No. 1, 2006, 15 – 21
16. *“Off - Axis Matrix Cracking Effect on Stiffness of Symmetric Angle – Ply Composite Laminates”*, by D. G. Katerelos, L. N. McCartney and C. Galiotis, *International Journal of Fracture*, (Impact Factor-2007: 1.003) Vol. 139, Nos. 3-4, 2006, 529 – 536

17. *“Raman Spectroscopy Investigation of Stiffness Change and Residual Strains due to Matrix Cracking”*, by D. G. Katerelos, P. Lundmark, J. Varna and C. Galiotis, *Mechanics of Composite Materials*, (Impact Factor-2007: 0.274) Vol. 42, No. 6, 535 – 546
18. *“Analysis of Matrix Cracking in GFRP Laminates using Raman Spectroscopy”*, by D. T. G. Katerelos, P. Lundmark, J. Varna and C. Galiotis, *Composites Science & Technology*, (Impact Factor-2010: 2.901) Vol. 67, No. 9, 2007, 1946 – 1954
19. *“Matrix Cracking in Polymeric Composite Laminates. Modelling and Experiments”*, by D. T. G. Katerelos, M. Kashtalyan, C. Soutis and C. Galiotis, *Composites Science & Technology*, (Impact Factor-2010: 2.901) Vol. 68, No. 12, 2008, 2310 – 2317
20. *“Energy Criterion for Modelling Damage Evolution in Composites”*, by D. T. G. Katerelos, J. Varna and C. Galiotis, *Composites Science & Technology*, (Impact Factor-2010: 2.901) Vol. 68, No. 12, 2008, 2318 – 2324
21. *“Alteration of the Polypropylene Mechanical Behaviour due to Successive Multi Wall Carbon Nanotubes Presence and Stretching”* by D. T. G. Katerelos, R. Joffe, D. Labou and L. Wallstrom, *Mechanics of Composite Materials*, (Impact Factor-2007: 0.274) Vol. 45, No. 4, 2009, 423 – 434
22. *“Damage Evolution in Transparent Cross-Ply Glass Reinforced Laminates: an Optical and Acoustic Emission Study”*, by G. Sotiriadis, T. Loutas, A. Paipetis, D. T. G. Katerelos, V. Kostopoulos and S. L. Ogin, *Plastics Rubber and Composites*, (Impact Factor-2007: 0.431) Vol. 38, No. 6, 2009, 229 – 234
23. *“Secondary Damage Effect on Stress Redistribution in Laminated Composites”*, by D. T. G. Katerelos and J. Varna, *The International Journal of Damage Mechanics*, Vol. 22, No. 5, 2013, 752-769
24. *“The farming of the Monastery of Aghia Paraskevi Tafios and their rents in a “remembrance” of 1632”*, by D. T. G. Katerelos, *Kefalonian Chronicles*, vol. 14, 2013
25. *“Experimental Monitoring of Patch Repaired Composite Structures Under Curing”*, by A. E. Tsovolos, Z. Y. Zhang, K. Kalkanis, G. I. Tsamasphyros, G. N. Kanderakis, K. I. Giannakopoulos, Y. Botsev, M. Tur, I. Kressel, H. N. Dhakal and D. T. G. Katerelos, *Sensor Letters*, Vol. 13, No. 5, 2015, 419-422
26. *“Composite Structure Repair Scheme Assessment”*, by A. E. Tsovolos, K. I. Giannakopoulos, Z. Y. Zhang, G. I. Tsamasphyros, G. N. Kanderakis, K. Kalkanis, P. Vouthounis, D. T. G. Katerelos and H. N. Dhakal, *Sensor Letters*, Vol. 13, No. 5, 2015, 405-410
27. *“Variational models for shear modulus of symmetric and balanced laminates with cracks in 90-layer”*, by Dionysios T. G. Katerelos, Andrejs Krasnikovs and Janis Varna, *International Journal of Solids and Structures*, accepted for publication

28. *“Stretching Effects on the Morphology and the Mechanical Behavior of a Polypropylene/ Multi Wall Carbon Nanotubes Composites”*, by D. T. G. Katerelos, R. Joffe, G. Tsoukleri, D. Labou, L. Wallstrom and C. Galiotis, Nanoletters, under submission
29. *“Effect of Matrix Cracking on Macroscopic Quantities. Models of Prediction”*, by D. G. Katerelos and C. Galiotis, Progress in Materials Science, under submission
30. *“Design and Applications of a Compact Raman/ Mechanical Testing System”*, by J. Parthenios, C. Koimtzoglou, C. Dassios, D. G. Katerelos, D. Bollas, P. Pappas and C. Galiotis, Journal of Raman Spectroscopy, under submission
31. *“Progress in Stress/ Strain Measurements in Fibres and Composites using micro Raman Spectroscopy”*, by C. Galiotis, J. Parthenios, C. Dassios, D. G. Katerelos, C. Koimtzoglou and S. Goutianos, International Materials Reviews, under submission
32. *“Raman spectroscopy. A powerful tool for multiscale stress and strain monitoring in composite materials with and without presence of damage”*, by D. G. Katerelos, J. Parthenios, C. Dassios, G. Anagnostopoulos and C. Galiotis, Advanced Materials, under submission
33. *“Spectrographic Analysis of the Sound Produced by a Flute with Different Head Materials (Wood – Metal)”*, by D. T. G. Katerelos, M. Bakali and C. Mylonas, under submission
34. *“Psychoacoustic Effect of Music in fetuses”*, by N. Boukas, N. Synalos and D. T. G. Katerelos, under submission

Conference Proceedings:

35. *“Determination of Stiffness Reduction and Residual Strain, caused by Transverse Cracking, in Composite Laminates using an Embedded Aramid Fibre Strain Sensor”* by D. G. Katerelos, C. Galiotis, S. L. Ogin and R. D. Whittingham, Proceedings of ECCM 9, June 4 – 7, 2000, Brighton, UK
36. *“A Motorway Composite Bridge made of Glass / Polyester pultruded Elements”* by V. Kostopoulos, Y. P. Markopoulos, D. E. Vlachos, D. G. Katerelos, C. Galiotis, T. Tsiknias, D. Zacharopoulos, Ch. Kontomitros, D. Karalekas, P. Chronis and D. Kalomellos, Proceedings of ECCM 10, June 3 – 7, 2002, Brugge, Belgium
37. *“Fatigue Behaviour of Low – Velocity Impacted Composite Panels”* by D. G. Katerelos, A. Paipetis and V. Kostopoulos, Proceedings of COMP '03: ADVANCES IN COMPOSITE TECHNOLOGY, May 5 – 7, 2003, Corfu, Greece
38. *“Monitoring Local Strains and Stiffness Degradation in Cracked Cross – Ply Composites”* by D. G. Katerelos, L. N. McCartney and C. Galiotis, Proceedings of COMP '03: ADVANCES IN COMPOSITE TECHNOLOGY, May 5 – 7, 2003, Corfu, Greece

39. *“Design and construction of a vehicular bridge made of glass/polyester pultruded box beams”* by V. Kostopoulos, Y. P. Markopoulos, D. E. Vlachos, D. Katerelos, C. Galiotis, T. Tsiknias, D.Zacharopoulos, D. Karalekas, P. Chronis, D. Kalomallos, 9th INTERNATIONAL PVC CONFERENCE April 26 – 28, 2005, Brighton, England
40. *“Stress Concentration Characteristics due to Crack Growth in Composite Laminates”* by D. G. Katerelos and C. Galiotis, Proceedings of the 4th Pan-Hellenic Scientific Chemical Engineering Conference, Patras, 29 – 31 May 2003, 253 – 256
41. *“Raman Spectroscopy Investigation of Stiffness Change and Residual Strains due to Matrix Cracking”* by P. Lundmark, D. G. Katerelos, J. Varna and C. Galiotis, Proceedings of the Mechanics of Composite Materials MCM-2006 XIV International Conference, 29 May – 2 June, 2006, Riga, Latvia
42. *“Raman Spectroscopy Assessment of Stiffness Reduction and Residual Strains due to Matrix Cracking in Angle – Ply Laminates”* by P. Lundmark, D. G. Katerelos, J. Varna and C. Galiotis, Proceedings of the 16th European Conference on Fracture, July 3 – 7, 2006, Alexandroupolis, Greece
43. *“A Meso-scopeic Experimental Determination of Matrix Damage Effects in Composite Laminates”* by D. G. Katerelos, P. Lundmark, J. Varna, L. N. McCartney and C. Galiotis, Proceedings of ECCM 12, August 29 – September 1, 2006, Biarritz, France
44. *“Experimental Determination of Stress Concentrations in Composite Laminates and their Effects on Damage Evolution”* by D. G. Katerelos and C. Galiotis, Proceedings of the 6th International Conference on Modern Practice in Stress and Vibration Analysis, 5 – 7 September 2006, University of Bath, England
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Total Impact Factors: 21.944

Average Impact Factor: 1.567

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Marital Status: Married