June 21–23, 2023 SPETSES ISLAND, GREECE



Conference Program

ORGANIZED BY

University of Patras, Laboratory of Technology and Strength of Materials

> Technical University of Darmstadt, Materials Mechanics Group





Under the Auspices of









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ANALYTICAL INSTRUMENTS S.A. DR C.J. VAMVACAS - SCIENTIFIC EQUIPMENT

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Conference Co-Chairmen Prof. Spiros Pantelakis, University of Patras Prof. Michael Vormwald, Technische Universität Darmstadt



Message from the Conference Co-Chairmen

Dear Participant to ICEAF VII, dear Colleague,

It is our particular pleasure to welcome you to the beautiful island of Spetses on the occasion of the International Conference of Engineering Against Failure (ICEAF). This marks the 7th Conference of the successful ICEAF series, following the previous gatherings held in Patras, Mykonos, Kos, Skiathos, Chios, respectively, as well as the one held virtually due to the covid pandemic. This year, we are particularly delighted to be hosting the Conference at Korgialenios venue. The Korgialenios School, established on the island in 1923, stands as a testament to Greece's architectural heritage and serves as a fitting location for our Conference.

The main goal of the ICEAF VII Conference is to create a platform where renowned scientists, young enthusiastic researchers, colleagues, and friends from around the world will come together to present and discuss our latest research findings. We prioritize the opportunity to exchange perspectives on the works presented, fostering fruitful discussions and encouraging meaningful connections among participants. Additionally, we are dedicated to providing young researchers from Greece and beyond with the valuable opportunity to showcase their work to internationally renowned experts, all within a supportive and intellectually stimulating environment.

Our second objective is to ensure that both you and your accompanying persons have an enjoyable time, spending three beautiful days on this remarkable island. We want you not only to enjoy a high quality and pleasant Conference but also experience the beautiful scenery and savor the local cuisine. Therefore, we have taken care to facilitate it. This island holds great historical significance, having played a crucial role in the Greek War of Independence since 1821. Spetses was the first Greek island to raise the flag of Revolution on the morning of April 3rd, 1821. Once known as Isola di Spezie during Venetian rule and referred to as Pityoussa (meaning pine-clad) in ancient times, the captivating island of Spetses, located a mere 54 nautical miles from Athens, enchants visitors with its picturesque, car-free streets, distinctive architecture, illustrious naval history, and culture. The grand mansions along the coast, built by captains over two hundred years ago, stand as testaments to the island's former wealth and grandeur.

The realization of the 7th ICEAF Conference has been made possible through the dedicated efforts of numerous individuals, and we extend our heartfelt gratitude to all of them. We express our particular thanks to our esteemed Keynote speakers, the members of the International Scientific Committee, the authors, presenters, and participants to the Conference, and, of course, the members of the local Organizing Committee, who have done an excellent job in making this event possible.

We want to express our appreciation to the Federation of European Materials Society (FEMS), the European Aeronautics Science Network (EASN), and the Hellenic Metallurgical Society (HMS) for endorsing the Conference. Last, but definitely not least, we want to extend our gratitude to the Sponsors of the Conference: Analytical Instruments S.A., the Hellenic Aero-space Industry, the Hellenic Research Centre for Metals S.A., M.J. Priniotakis S.A.I.C. and Setpoint Technologies.

Please, let us extend our warmest wishes for a highly successful and fruitful Conference, as well as a truly pleasant stay in Spetses.

Warm regards, Spiros Pantelakis & Michael Vormwald ICEAF VII Conference Co-Chairmen





The Venue

Anargyrios and Korgialenios School of Spetses

The Anargyrios and Korgialenios School of Spetses is a historical and cultural heritage site of the island of Spetses. It was established in 1923 on a picturesque 120.000m² parcel along the northern coastline of the island.







Welcome to Spetses island

Pre-Conference Day | Tuesday, June 20th 2023

18:00-20:00 | Registrations

19:00 | Welcome Drink

















Conference Day 1 | Wednesday, June 21st 2023

08:30-16:30	Registrations						
09:00-09:45							
	Opening Ceremony – Welcome by the Chairmen of the Conference Innovative surface engineering to combat failure						
Keynote Lecture:	Prof. Hanshan Dong University of Birmingham, UK						
Chair:	Prof. Michael Vormwald & Prof. Spiros Pantelakis ICEAF VII co-Chairmen						
09:45-10:15		Effect of microstructure on t	he electrochemical corrosion behaviour o	f advanced cermet coatings			
Keynote Lecture:		Prof. A	ngeliki Lekatou University of Ioannina, (Greece			
Chair:		Prof. Michael V	/ormwald & Prof. Spiros Pantelakis ICEAF V	'll co-Chairmen			
10:15-10:30	CLASSROOM ANTIQUE	CLASSROOM 1	Coffee Break	CLASSROOM 4	CLASSROOM 5		
Session:	Guidelines against failure (PART I)	Alloy and microstructure design of AHSS to improve their performance (PART I)	Advancements in Understanding and Improving Iron-based and Steel Mechanical System Durability and Performance (PART I)	Joining with predictable Damage Tolerance	Advanced and Al-enhanced nanomechanics for materials assessment and prognostics		
Chair:		Dr. Alexandros Banis, Dr. Aniruddha Dutta, Prof. Carlo Mapelli, Dr. Dik Ponge, Prof. Roumen Petrov, Dr. Ilchat Sabirov University of Ghent, Belgium - OCAS, Belgium - Politechnico di Milano, Italy Max-Planck Institute for Ion Research, Germany - University of Ghent, Belgium - IMDEA Materials Institute, Spain	Prof. Robert Basan University of Rijeka, Croatia		Prof. Costas Charitidis National Technical University of Athens, Greece		
10:30-10:50	FKM-Guideline "Analytical Strength Assessment" – Overview and actual developments	Direct Quenching and Partitioning for Novel Tough Ultrahigh Strength Steels	A study of methods for fatigue parameters and behavior estimation of quenched and tempered steels	Introduction to a High Fidelity Simulation Framework for the Development of Damage Tolerant Bonded Joints	Mechanical spectroscopy: Machine learning and high speed nanoindentation for high throughput material evaluation		
	<u>Roland Rennert</u> , Michael Vormwald, Alfons Esderts	<u>Mahesh Somani (invited)</u> , Sumit Ghosh, Pekka Kantanen, David Porter, Jukka Kömi	<u>Robert Basan</u> , Tea Marohnić, Ela Marković, Dario Iljkić	<u>Ronny Sachse</u> , Marco Hoffmann, Thomas Körwien	<u>Douglas Stauffer,</u> Bernard Becker, Eric Hintsala, Benjamin Stadnick, Ude Hangen		
10:50-11:10		Texture and anisotropy investigation on austenitic lightweight steel	Influence of residual stresses caused be shrink fit on strength of hollow shafts	A mapping methodology for damage transfer between different numerical modules in a virtual testing chain of bonded CFRP joints	NAVMAT: an Al-powered pathway to knowledge sharing on material failures		
		Giacomo Villa, <u>Davide Mombelli</u> , Silvia Barella, Andrea Gruttadauria, Carlo Mapelli	Loc Duc Le, Lukas Suchy, Alexander Hasse	Patrick Erdmann	<u>Nikolaos Melanitis,</u> George Giannakopoulos, Konstantinos Stamatakis		
	A damage parameter for a critical plane approach for fatigue strength assessment within the FKM-Guideline for non-proportional loading	GTAW effect on austenitic lightweight steel's microstructure and mechanical properties	Fatigue life estimation of corroded welded steel joint using probabilistic approach	A numerical simulation method for impact damage in adhesively bonded joints	A method for the correlation of microstructure with nanomechanical properties in Advanced High Strength Steels for automotive applications		
11:10-11:30	<u>Carl Fällgren</u> , Michael Vormwald, Thomas Beier	Giacomo Villa, <u>Davide Mombelli</u> , Silvia Barella, Andrea Gruttadauria, Carlo Mapelli	<u>Darko Pastarcic,</u> Goran Vukelic, Zeljko Bozic	<u>Mirijam Bastek</u> , Peter Middendorf	<u>Anastasia Alexandratou</u> , Georgios Konstantopoulos, Athanasios Katsavrias, Federico Bruno, Luca Belforte, Edoardo Rossi, Saqib Rashid, Marco Sebastiani, Costas Charitidis		
11-20 11-50	Fatigue strength assessment of preloaded cross-toothed flange connections based on the FKM guidelines	Study of edge cracking during hot rolling of lightweight Fe-Mn-Al-C steels using high-speed camera	Fatigue strength analysis of thin steel plates	Crack growth simulation of bonded joints under mixed mode loading	Phase mapping and identification of complex multiphase CuWCrTi material using Nanoindentation testing and Nanodiffraction mapping		
06.11-06.11	<u>Hans Härtel</u> , Carsten Ulrich, Melanie Fiedler, Markus Kästner, Berthold Schlecht	<u>Aniruddha Dutta</u> , Lode Duprez, Tom Waterschoot	<u>Vladimir Chmelko</u> , Marián Semeš	<u>Lukas Münch</u> , Philip Rose, Peter Middendorf, Markus Linke	Athanasios Katsavrias, Anastasia Alexandratou, <u>Georgios Konstantopoulos</u> , Ennio Capria, Tobias Schulli, Rostislav Daniel, Michal Zitek, Costas Charitidis		
	Fatigue strength assessment of steel welded joints and components: A comparison of different mechanical engineering guidelines and standards	The effect of aging treatment on the microstructure and mechanical properties of Fe-Mn-AI-C lightweight steels on macro- and microscale	Improving the Fatigue Design of Mechanical Systems such as Refrigerator	Investigation of the influence of design parameters onto the cracked lap shear specimen	Nanomechanical testing of printed nanolayers for application in flexible organic printed electronics devices		
11:50-12:10	<u>Melanie Fiedler</u> , Roland Rennert, Markus Kästner	<u>Andrea Gomez-fernandez</u> , Ilchat Sabirov, Miguel Monclús, Manuel Avella, Aniruddha Dutta, Jon Mikel Molino-Aldareguia	Seongwoo Woo	<u>Philip Rose</u> , Markus Linke, David Busquets	Spyros Kassavetis, Theodora Kalampaliki, Argiris Laskarakis, Christos Kapnopoulos, Vasilis Kyriazopoulos, Volha Heben, Alexandros Paliagkas, Alexadros Zachariadis, Thanos Katsavrias, Georgios Konstantopoulos, Evangelos Mekeridis, Costas Charitidis, Stergios Logothetidis		
12:10-12:30	Suggestions for Correcting the Stress Parallel to the Weld Seam	The effect of κ-carbides on the deformation of Fe-Mn-Al-C steel after aging	Influence of Asymmetric Fillet Geometry on Spur Gear Fatigue Life	Crack tracking on element level for fatigue calculations of adhesively bonded joints	Study of the material engineering properties of high-density poly(ethylene)/perlite nanocomposite materials		
	Wolfgang Feickert, <u>Tim Kirchhoff</u> , Teresa Schlitzer	<u>Alexandros Banis</u> , Andrea Gomez, Ilchat Sabirov, Roumen Petrov	<u>Niko Trumbić,</u> Krešimir Vučković, Ivan Čular, Ivica Galić	<u>Andreas Wulf</u> , Christof Nagel, Olaf Hesebeck	<u>Yousef Murtaja</u> , Lubomir Lapcik, Assoc. Barbora Lapcikova,		
12:30-12:50	Development of a software for fatigue strength assessment of welded joints	Understanding Mn and C segregation at the phase boundary in medium Mn steel	Minimizing Porosity in 17-4 PH Stainless Steel Through Cold Pressing and Sintering for Improved Resistance to Static and Dynamic Loads	Static residual strength analysis of fibre composite bonded joints after impact and fatigue using mesoscale progressive damage analysis	Correlation between structure and mechanical properties in a-quartz single crystal by nanoindentation and Confocal Raman microscopy		
	<u>Heinz Thomas Beier</u> , Carl Fällgren, Michael Vormwald, Jörg Baumgartner, Markus Faß, Tobias Melz, Tim Kirchhoff, Teresa Schlitzer, Filip Bös, Wolfgang Feickert	<u>Faisal Waqar Syed</u> , Binhan Sun, Dirk Ponge, Dierk Raabe	<u>Tamás Mikó</u> , Dionysios Markatos, Konstantinos Koulouris, Enrico Troiani, Zoltan Gacsi	<u>Oliver Völkerink,</u> Martin Schollerer, Jens Kosmann, Dirk Holzhüter, Christian Hühne	Esther Enriquez Pérez, Adolfo Del Campo, Julián Jiménez Reinosa, Georgios Konstantopoulos, Costas Charitidis, José Francisco Fernández Lozano		
12:50-13:50	Light Lunch						



Conference Day 1 | Wednesday, June 21st 2023

13:50-16:10	CLASSROOM ANTIQUE	CLASSROOM 1	CLASSROOM 2	CLASSROOM 4	CLASSROOM 5	
Session:	Guidelines against failure (PART II)	Alloy and microstructure design of AHSS to improve their performance (PART II)	Advancements in Understanding and Improving Iron-based and Steel Mechanical System Durability and Performance (PART II)	Towards Manufacturing Defects Reduction in Composite Structures	Structural Integrity and Processing Challenges of Additively Manufactured Materials	
Chair:	Dr. Melanie Fiedler TU Dresden, Germany	Dr. Alexandros Banis, Dr. Aniruddha Dutta, Prof. Carlo Mapelli, Dr. Dirk Ponge, Prof. Roumen Petrov, Dr. Ilchat Sabirov University of Chent, Belgium - OCAS, Belgium - Politechnico di Milano, Italy- Max-Planck Institute for Iron Research, Germany - University of Chent, Belgium - IMDEA Materials Institute, Spain		Prof. Antonio Maria Di Ilio & Prof. Antonios Stamopoulos University of L'Aquila, Italy	Dr. Anthoula Poulia & Dr. Spyros Diplas University of Oslo, Norway – SINTEF, Norway	
	PRACTICAL FATIGUE STRENGTH DIAGRAMS FOR COMPRESSION SPRINGS BASED ON THE FKM- GUIDELINE "ANALYTIC STRENGTH ASSESSMENT FOR SPRINGS"	Fracture characterization of structural steel S690Q by using mini-CT specimens	Fatigue behaviour of advanced high strength steels	Improving the mechanical properties of Glass Reinforced Plastics by slight mechanical compression	Magnetic High Entropy Alloys for Renewable Electricity Applications: A Comparative Study of Two Fabrication Methods	
13:50-14:10	<u>Martin Petrich</u> , Ulf Kletzin	Marcos Sánchez, <u>Sergio Cicero</u> , Borja Arroyo	Sierra-Soraluce A., Gomez A., Banis A., Petrov R., Molina-Aldareguia J., Dutta A., <u>Sabirov I.</u>	<u>Isidoros Iakovidis</u> , Sotiria Dimitrellou, George Orfanos, Michael Vlachogiannis	<u>Anthoula Poulia</u> , Amin Azar, Calliope Bazioti, Aleksander Larsen, Joachim Graff, Branson Belle, Patricia Almeida Carvalho, Irena Gejdos Janotova, Pavlo Mikheenko, Anette Eleonora Gunnæs, Spyridon Diplas	
14:10-14:30	Investigations on permissible plastic strains using the example of feather key connections	Distribution of residual stresses at welding seams performed at \$235 and \$355	Phase field modelling of low cycle fatigue in the framework of non- conventional thermodynamics	Optimization of the cupro-nickel and graphene co-deposition process based on the fracture toughness characteristics.	Phase-separated properties based on the multi-technique nanomechanical characterisation methodologies of ferrite and austenite in 2205 duplex and 2507 super duplex stainless steel produced via Laser Powder Bed Fusion Additive Manufacturing	
	<u>Benjamin Muhammedi</u> , Alexander Hasse, Lukáš Suchý	<u>Eckehard Müller</u> , Thomas Hermann	<u>Aris Tsakmakis</u> , Michael Vormwald	<u>Gabriele Baiocco</u> , Daniel Salvi, Antonios Stamopoulos, Nadia Ucciardello	<u>Leonidas Gargalis</u> , Leonidas Karavias, Elias Koumoulos, Joachim S. Graff, Spyros Diplas, Evangelia Karaxi	
14:30-14:50	Fatigue Life Assessment of Automotive Leafsprings	Microstructure, texture, and properties correlation of an Ultra-Fast Heat- treated commercial grade steel	An interesting fatigue phenomenon in 316L stainless steel processed by surface mechanical rolling treatment	Investigation of Defects in Composite Structures produced with the Fused Filament Fabrication technique using X- Ray Computed Tomography	Coupling of processing parameters to the columnar to equiaxed transition (CET) using a computationally low-cost model for process mapping and high- throughput screening of new alloys in additive manufacturing	
	<u>Efstratios Giannakis</u> , Georgios Savaidis, Roselita Fragoudakis, Alexandros Savaidis	Spyros Papaefthymiou, <u>Alexandros Banis</u> , Ilchat Sabirov, Drir. Roumen Petrov	<u>Yanyao Jianq</u> , Seth Henderson, Shicong Liu, Xiaogui Wang	Antonios Stamopoulos, <u>Francesco Pace</u> , Jonathan Glinz, Sasha Senck	<u>Magnus Reiersen</u> , Mohammed M'hamdi, Even Wilberg Hovig, Yanjun Li, Qiang Du, Kai Zhang	
14:50-15:10	Finite Element Modelling of Stress Shot Peening: Application on Leaf Springs	Cold-forming of quenched and partitioned martensitic stainless steels: from Nakajima to simulation	Microstructure evaluation of cryogenically hardened and tempered 5%Cr hot-work tool steel	Analysis of the effect of pressure cycle on the impregnation level of textile glass fiber reinforced thermoplastic composites for automotive applications	Optimization approach of DED process to fulfil the requirements on material properties and component performance of water jet impeller	
	Christos Gakias, Roselita Fragoudakis, <u>Georgios Savaidis</u>	<u>Andres Sierra-Soraluce</u> , Juan Luis de Pablos, Ali Smith, Marta Muratori, Ilchat Sabirov	<u>Dimitrios Papageorgiou</u> , Anthi Tsarouxa, Dionysios Mouzakis, Dimitrios Manolakos	Antonios Stamopoulos, <u>Antoniomaria Di</u> <u>Ilio</u> , Gianluigi Creonti	<u>Afaf Saai</u> , Siri Marthe Arbo, Sture Henning Sørli, Cato Dybdahl, Mette Lokna Nedreberg	
15:10-15:30	Robust calculation method for fretting fatigue strength assessment of steel, cast iron and aluminum contacts	The deceit of steel strength ductility diagrams: A case study on high manganese lightweight steel.	On the high-cycle fatigue properties of a near-net shape manufactured high- nitrogen tool steel	Identification of the Manufacturing Defects in Composite Structures produced with the Filament Winding technique with contact and non- contact inspection methods	Small fatigue crack growth properties of 316L SS fabricated with Laser-based Powder Bed Fusion process	
	<u>Denny Knabner</u> , Lukáš Suchý1, Alexander Hasse	<u>Mohamed Elkot</u> , Binhan Sun, Dirk Ponge, Dierk Raabe	<u>Faezeh Javadzadeh Kalahroudi</u> , Mohamed Sadek, Giulio Maistro, Krishnan Hariramabadran Anantha, Thomas Mikael Grehk	<u>Giulio D'Emilia</u> , Antonella Gaspari, Antonios Stamopoulos, Emanuela Natale, Luciano Chiominto	<u>Harry Psihoyos</u> , George Lampeas, Efthymios Polatidis, Christos Sofras	
15:30-15:50	The low-cycle fatigue behavior of high- Manganese twinning-induced plasticity steels with various loading orientations	Improving resistance against hydrogen embrittlement of high strength medium Manganese TRIP steels by heterogeneous Mn distribution Part I: Hydrogen damage mechanisms in medium Mn TRIP steel	Statistical analysis of parameters and behavior of quenched and tempered steels	Mode I fracture toughness for hygrothermally-aged filament wound composites	Exploring the Stress Concentration Factor in Additively Manufactured Materials: A Machine Learning Perspective on Surface Notches and Subsurface Defects	
	<u>Di Sona</u> , Heinz Thomas Beier, Michael Vormwald	<u>Dirk Ponge</u> , Binhan Sun, Dierk Raabe	<u>Tea Marohnic</u> , Robert Basan, Ela Marković, Sunčana Smokvina Hanza	Artur Pollet, <u>Humberto Almeida Jr</u> ., Antonios Stamopoulos, Sandro Amico	Amin S. Azar	
15:50-16:10	The FKM guideline nonlinear - strength assessment considering elastic-plastic material behaviour	Improving resistance against hydrogen embrittlement of high strength medium Manganese TRIP steels by heterogeneous Mn distribution Part II: New approach to increase the hydrogen embrittlement resistance of medium Mn TRIP steel	Performance Analysis of High-speed and High-pressure Non-contact Mechanical Seals under Typical Failure Conditions	A "mean object" approach to simulate manufacturing-induced porosity in filament-winded composites	Experimental and statistical investigation on flexural properties of vertically oriented FDM fabricated PLA specimens	
	<u>Melanie Fiedler</u> , Michael Wächter, Igor Varfolomeev, Alfons Esderts, Michael Vormwald	<u>Dirk Ponge</u> , Binhan Sun, Dierk Raabe	<u>Xiang Zhao</u> , Ying Liu, Haoran Liao, Hongju Li, Anqi Huang, Zhurong Liang	<u>Chaman Srivastava</u> , Antonios Stamopoulos, Sotirios Grammatikos	Nikolaos A. Fountas, Ioannis Papantoniou, John D. Kechagias, Dimitrios E. Manolakos, <u>Nikolaos M. Vaxevanidis</u>	
16:10-16:20	Coffee Break					





Conference Program

Conference Day 1 | Wednesday, June 21st 2023

16:20-18:00	CLASSROOM ANTIQUE	CLASSROOM 1	CLASSROOM 2	CLASSROOM 4	CLASSROOM 5
Session:	Guidelines against failure (PART III)	Emerging Techniques for Characterizing and Analyzing Material Properties	Advances in Nanocarbon-Based Composites and Fibre-Reinforced Polymers: Characterization, Functionalization, and Applications	Modeling, Characterization, and Damage Detection and Assessment of Composite Materials	Advances in Materials Science and Engineering: Formability, Fatigue, and Failure Analysis of Advanced Alloys in Industrial Applications
Chair:					Dr. Wolfgang von Bestenbostel Airbus, Germany
16:00 16:40	Proof of structural durability for surface-hardened components based on the local strain approach	Approach for the fatigue assessment of welds considering nonlinear elastic- plastic material behavior	Mechanics of carbon nanomembranes for water separation	Investigation and calculation of longitudinal compressive strength of unidirectional glass fiber reinforced plastic considering fiber orientation distribution	Durability and fractography of aluminum alloy 6060 after fatigue tests under bending and torsion loading
10.20-10.40	<u>Patrick Yadegari</u> , Thomas Beier, Michael Vormwald	<u>Winniefred Rudorffer,</u> Mlchael Wächter, Alfons Esderts	Marinos Dimitropoulos, George Trakakis, Christos Pavlou, Christos Kostaras, Nikolaus Meyerbröker, Raphael Gehra, Albert Schnieders, Costas Gallotis, <u>Konstantinos Dassios</u>	<u>Tom Blümel</u> , Rabea Sahr, Alexander Krimmer	Joanna Malecka, Sebastian Skrobacz, Roman Chudy, Szymon Derda, Juliusz Kuś, <u>Tadeusz Lagoda</u>
16:40-17:00	Notch approximation methods for components under thermomechanical stresses	Investigation of intelligent evaluation method of fretting fatigue life assessment based on hierarchical mechanism-based neural network	Study of mechanical properties of epoxy/graphene and epoxy/halloysite nanocomposites	Multiscale damage modelling for variable-angle filament-wound composites	Influence of geometry on the failure behaviour of force-locking and form- locking shaft-hub connections on the example of the inner knurled press-fit connection
	<u>Jan Hamacher</u> , Michael Vormwald	<u>Huang Yuan</u> , Yujing Liu	<u>Lubomir Lapcik</u> , Yousef Murtaja, Barbora Lapcikova	Bruno Christoff, <u>Humberto Almeida Jr</u> , Rui Guedes, Volnei Tita	<u>Tobias Hentschel</u> , Alexander Hasse
17:00-17:20	FATIGUE LIFE ESTIMATION OF NOTCHED COMPONENTS UNDER MULTIAXIAL NON-PROPORTIONAL LOADING	Study of experimental and theoretical crack directions for specimens with a circular hole under biaxial cyclic loading	Using the Point Method to estimate failure loads in 3D printed graphene- reinforced PLA notched plates.	Probabilistic simulation methods in micromechanical modeling of fiber- reinforced composites	Towards Automated Fatigue Striation Counting
	<u>Jan Kraft</u> , Michael Vormwald	<u>Victor Chaves</u> , Jose A. Balbin, Alfredo Navarro	<u>Sergio Cicero</u> , Sergio Arrieta, Marcos Sánchez, Laura Castanon-Jano	Janot Lubritz	<u>Wolfgang von Bestenbostel</u> , Klaus Schertler
17:20-17:40	Comparison of the strength assessments of the FKM guidelines	Verification of a nonlocal analytical model to simulate cracked nanobeams under mode I static loading	An electrostatic glue	Design Optimization of an Aircraft Canopy against Bird Strike	Very High Cycle Bending Fatigue response of Ni-Al Bronze
	<u>Melanie Fiedler</u> , Roland Rennert	<u>Andrea Zanichelli</u> , Andrea Carpinteri, Camilla Ronchei, Daniela Scorza, Sabrina Vantadori	Mark Geoghegan (invited)	Tezel M, Özkan Ö, <u>Acar E</u>	<u>Katerina Chantziara,</u> Mohamed Sadek, Ahmed Chabbah, Mikael Grehk
17:40-18:00	Black-box system identification approach for damage detection in a small-scale wind turbine blade	Toughness of Hydrogels		Investigation of conduction welded thermoplastic composite joints in Mode-I and Mode-II loading conditions	New temptations in hot structural fabrication of aero engine components
	<u>Mengen Liu</u> , Helon Vicente Hultmann Ayala	Konstantinos Garyfallogiannis, Prashant Purohit, <u>John Bassani</u>		Konstantinos Fotopoulos, Stavros Valilis, <u>George Lampeas</u> , Bas Tijs	Joel Andersson
18:00			End of Day 1		





Conference Day 2 | Thursday, June 22nd 2023

08:30-16:30	Registrations						
09:00-09:30	амрнітнеатте						
Keynote Lecture:	Validating structural simulations of large-scale aeronautical components Prof. George Lampeas University of Patras, Greece						
Chair:	Prof. Spiros Pantelakis ICEAF VII co-Chairman						
09:30-11:30	CLASSROOM ANTIQUE	CLASSROOM 1	CLASSROOM 2	CLASSROOM 4	CLASSROOM 5		
Session:	Fatigue and Fracture of additively manufactured materials	Advances in Fracture Analysis of High- Performance Metals and Alloys: Experimental Investigations and Numerical Modeling	Additive manufacturing	Exploring Fracture Phenomena in Materials & Structures under Extreme Conditions of Operation	Computational and experimental techniques for the tolerance analysis and robust design of materials and devices		
Chair:	Prof. Giovanni Meneghetti University of Padova, Italy	Dr. George Pantazopoulos ELKEME, Greece	Prof. Katarina Monkova Technical University in Košice, Slovakia	Prof. Dionysios Mouzakis Hellenic Army Academy, Greece	Prof. Vincenzo Tucci & Dr. Monica La Mura University of Salerno, Italy		
09:30-09:50	A review of the use of the Theory of Critical Distances to perform the uniaxial/multiaxial fatigue assessment of notched 3D-printed metals	Hydrocode numerical modeling of projectile impact on moving aluminum targets	Comparison of the bending properties of a radially and rectangularly distributed lattice structure made of ABS material	Protecting Spacecraft against Hyper- Velocity Impact: Problems and Solutions	A novel reliability evaluation method combing improved subset simulation and adaptive Kriging model for rare failure events		
	Luca Susmel (invited)	<u>Costas Kalfountzos</u> , George Bikakis, Efstathios Theotokoglou	<u>Katarina Monkova</u> , Peter Pavol Monka, Milan Zaludek, Martin Korol, Marek Kocisko, Petr Baron, Matej Skyvara	<u>Dionysios Tompros</u> , Dr-Ing. Dionysios Mouzakis	<u>Debiao Meng</u> , Shiyuan Yang, Peng Nie, Yipeng Guo		
	MICROSTRUCTURE AND FATIGUE BEHAVIOR OF A HIGH STRENGTH ADDITIVELY MANUFACTURED AL-CU ALLOY	The anisotropy behavior of metallic foams under Charpy impact tests	Dissimilar joining by 3D printing: Study of the joint design	Bird strike analysis of new composite inlet for tilt rotor aircraft	A hybrid adaptive strategy for support vector machine-based structural reliability analysis		
09:50-10:10	Gianni Nicoletto, <u>Giovanni Fortese</u> , Tibor Varmus, Radomila Konecna	<u>Sergiu-Valentin Galatanu</u> , Emanoil Linul,	<u>Teresa Morgado</u> , Carlos Leitão, Rui Leal,	<u>Radek Doubrava</u> , Jarmil Vlach, Martin	<u>Shiyuan Yang</u> , Debiao Meng, Peng Nie,		
	Mr Enrico Carrara will present on behalf of Dr. Giovanni Fortese	Jaroslav Kováčik, Liviu Marsavina	Ivan Galvão	Oberthor, Petr Bélský	Hongtao Wang		
10:10-10:30	Probabilistic defect-notch interaction assessment of AM materials under size effect	Understanding the crack initiation mechanism under thermal-mechanical fatigue in polycrystalline superalloys	Investigation of bio-based and recycled materials for Additive Manufacturing using Fused Layer Modelling	Temperature dependent fiber/matrix interfacial debonding in CFRPs	Application of novel diffraction methodologies for estimation of fatigue state of the material		
	<u>Xiaopeng Niu</u> , Filippo Berto, Jinchao He, Shunpeng Zhu	David Collins, Mikael Segersäll, Johan Moverare, Angus Wilkinson, Baptiste Gault, <u>Paraskevas Kontis</u>	<u>Stefan Junk</u> , Philipp Vögele	<u>George Zaverdinos</u> , Dimitrios Dragatogiannis	<u>Elżbieta Gadalińska</u> , Anna Trykowska, Maciej Malicki, Bartosz Madejski		
10:30-10:50	Fatigue Behavior of Miniaturized Ti6Al4V Lattice Structures: Investigating the Influence of Building Orientation and Stress Ratio for Improved Design and Manufacturing of Biomedical Devices	Wear Behavior of SBR/BR Compounds Including Different ZnO Types	Numerical investigation of 3-D auxetic meta-material for high-performance concrete	Armor plates made from household and "off-the-shelf" materials for use by citizens in life threatening conditions	Plastic stress concentration effects in the tolerance to short fatigue cracks		
	<u>Simone Murchio</u> , Devid Maniglio, Andrea Rigatti, Luca De Nart, Valerio Luchin, Matteo Benedetti	<u>Cansu Börüban Bingäl</u> , Şeyda Polat, Ş. Hakan Atapek	Neeraj Sharma, <u>Kshitij Kumar Yadav</u>	Nasikas N, Emmanouil P, Markoulakis A, <u>Mouzakis D</u>	Jaime Castro, <u>Mengen Liu</u> , Carlos Bandeira, Antonio Miranda, Renato Vieira, Marco Meggiolaro		
10:50-11:10	MULTI-SCALE ASSESSMENT OF MECHANICAL PROPERTIES AND FATIGUE PERFORMANCE OF ADDITIVELY MANUFACTURED NICKEL- BASE SUPERALLOYS	Experimental and Computational study of Microhardness Evolution in the HAZ for Al-Cu-Li alloys	Innovative Additive Manufacturing of Biomimetic 3D Constructs for Enhanced Impact Energy Dissipation	Determination of stresses in the combination of proportional cyclic bending and torsion of RG7 bronze according to different plasticity models	Modeling ductile failure – A non-local plasticity model for porous metals with deformation-induced anisotropy		
	<u>Huang Yuan</u> , Tinglian Zhang, Shengzhe Jin	<u>Stavroula Maritsa</u> , Anna D. Zervaki	Nikolaos Michailidis, Georgios Maliaris, <u>Apostolos Argyros</u> , Emmanouel Smyrnaios	Michał Paduchowicz, Karolina Głowacka, Joanna Małecka, <u>Tadeusz Lagoda</u>	<u>Nikolaos Aravas</u> , Ioanna Papadioti		
11:10-11:30	Fatigue threshold estimation of as-built surfaces of Ti6Al4V alloy specimens based on equivalent crack models	Pressure equipment in refineries: Correlation of process conditions with life span under the existence of welding defects	Investigation of the damping capacity of stochastic lattice structures	Fatigue and fracture of the aeronautical Al-Cu-Li 2198 alloy for different ageing tempers	EXPERIMENTAL AND NUMERICAL ASSESSMENT OF FAILURE IN AIRCRAFT COMPONENTS MANUFACTURED BY LIQUID RESIN INFUSION (LRI)		
	<u>Giovanni Meneghetti</u> , Daniele Rigon, Filippo Coppola	<u>A. Fotiadis</u> , D.Oikonomou, A.D.Zervaki and G.N.Haidemenopoulos	<u>Elias Sarafis</u> , Andreas Stamkos, Georgios Maliaris, Sofia Kavafaki, Vassilios Mitridis	loannis Goulas, <u>Alexis Kermanidis</u> , Christina Charalampidou, Stavros Kourkoulis, and Nikolaos Alexopoulos	<u>E. Karachalios</u> , T.S. Plagianakos, K. Muñoz, M. Jiménez, V. Prentzias		
11:30-11:40			Coffee Break				





Conference Program

Conference Day 2 | Thursday, June 22nd 2023

11:40-13:20	CLASSROOM ANTIQUE CLASSROOM 1		CLASSROOM 2	CLASSROOM 4	CLASSROOM 5	
Session:	Environmental degradation, corrosion and wear Multi-material design and function- integration for sustainable mechanical systems		Safety Aspects in Aircraft Design	Surface engineering and coatings	Failure in civil and environmental engineering analysis / prevention / repair	
Chair:						
11:40-12:00	Corrosion and wear performance of a biomedical CoCrMo alloy fabricated by Vacuum Arc Melting	Integrating sustainability into conceptual design of an aircraft structure for and beyond an eco-design approach	Design of a TRL 3 Concept for Supersonic Variable Pitot Inlets with a Safe Design Approach for Academic Environments	Degradation of Thermoelectric Materials and their Protection by Chromium-based Coatings	Textile Reinforced Mortar strengthening as effective prevention against premature failure of masonry walls made of AAC blocks subjected to diagonal compression	
	<u>Sevasti Emmanouilidou</u> , Aggelos Papagiannopoulos, Angeliki Lekatou	<u>Angelos Filippatos</u> , Dionysios Markatos, Kaushik Abhyankar, Georgios Tzortzinis, Maik Gude, Spiros Pantelakis	<u>Stefan Kazula</u> , Klaus Höschler	<u>Zhenxue Zhang</u> , Mikdat Gurtaran, Xiaoying Li, Hanshan Dong	Marta Kałuża	
12:00-12:20	Fly ash as a corrosion inhibitor of AISI 316L and 304L stainless steel concrete reinforcements under the combined effect of acid rain and seawater	Modelling the shredding process of multi-material structures for recycling- oriented design	Common Cause Analysis of the Air Supply System of Fuel Cell-Powered Propulsion Systems in Electrified Aviation	Improvement of IFSS of CFRP composites by ASP treatments	Simulation of the degraded (steel - concrete) bond strength due to corrosion via modeling pull out tests	
	<u>Sofia Tsouli</u> , Pantelis Goutzos, Spyros Kleftakis, Angeliki Lekatou	<u>Magdalena Heibeck</u> , Jonas Richter, Thomas Mütze, Angelos Filippatos	Stefan Kazula	<u>Xiaoying Li</u> , Behnam Dashtbozorg, Hanshan Dong	<u>Konstantinos Koulouris</u> , Alkiviadis Charalampopoulos, Charis Apostolopoulos	
12:20-12:40	Development of a tool for the prediction of wear in spur gears. Application to wind turbine's pitch system	Inspection and evaluation of corroded steel bridges with high resolution 3D laser scanning and convolutional neural networks (CNN)	Review of Potential Safety Challenges Associated with Electromagnetic Interference for Future Electrified Aero Engines	Oxidation Behaviour of CrSi Coatings for Combating Degradation of 316 Austenitic Stainless Steel at High Temperatures	Effect of shot blasting treatment on mechanical behavior of steel reinforcement	
	Maite García, David Cubillas, <u>Mikel Escalero</u>	<u>Georgios Tzortzinis</u> , Angelos Filippatos, Jan Wittig, Maik Gude, Chengbo Ai, Simos Gerasimidis	Stefanie de Graaf	<u>Mikdat Gurtaran</u> , Zhenxue Zhang, Xiaoying Li, Hanshan Dong	<u>Maria Basdeki</u> , Charis Apostolopoulos	
12:40-13:00	The Corrosion Resistance of High- Strength Steels: An Examination of Microstructural Effects Using Localised Electrochemical Methods	lce detection on composite blades using artificial neural networks under different icing conditions based on their vibration behavior	Analysis of Critical Loss of Thrust for Hybrid-Electric Aircraft Configurations and Implications on Preliminary Aircraft Design	Active screen plasma nitriding of laser powder bed fusion processed 316L stainless steel for the application of fuel cell bipolar plates	Structural Health Monitoring implementation in standards and application to historic masonry structures	
	Aytac Yilmaz, Satyakam Kar, Gaojie Li, Konstantina Traka, Jilt Sietsma, Maria J. Santofimia, <u>Yaiza Gonzalez-Garcia</u>	<u>Jan Wittia</u> , Georgios Tzortzinis, Angelos Filippatos	<u>Jonas Mangold</u> , Andreas Strohmayer	<u>Kaijie Lin</u> , Jingchi Qiao, Dongdong Gu	<u>Dimitrios Diamantidis</u> , Miroslav Sýkora	
13:00-13:20	Effect of Environmentally Friendly Surface Treatments on the Corrosion Behavior of New Al-Li Alloys	Experimental Study of Composite Driveshafts for Marine Applications	Zonal safety analysis for the powertrain and fuel supply system of a hydrogen- powered aircraft	Plain fretting crack initiation - experimental and numerical fracture mechanics analyses	Damage of a post-tensioned concrete bridge – unwanted cracks of the bridge girders	
	Alexandra Karanika, <u>Nikolaos Vourdas</u>	<u>Elias Bilalis</u> , Georgios Tzortzinis, Nicholas Tsouvalis, Angelos Filippatos	<u>Nicolas Moebs</u> , Jonas Mangold, Andreas Strohmayer	<u>Denny Knabner</u> , Lukáš Suchý, Alexander Hasse	<u>Bartosz Sobczyk</u> , Mikołaj Miśkiewicz, Łukasz Pyrzowski	
13:20-14:20			Light Lunch			
14:20-14:50			AMPHITHEATRE			
Keynote Lecture:	Imaging using Ultrasonics and X-ray CT: Problems and Solutions Prof. Elena Jasiuniene Kaunas University of Technology, Lithuania					
Chair:	Prof. Michael Vormwald ICEAF VII co-Chairman					





Conference Day 2 | Thursday, June 22nd 2023

14:50-16:10	CLASSROOM ANTIQUE	CLASSROOM 1	CLASSROOM 2	CLASSROOM 4	CLASSROOM 5
Session:	Non-Destructive Testing, Structural Health Monitoring and Robotic applications for prevention of failure and maintenance of different infrastructures (PART I)	Size effect and probabilistic failure assessment (PART I)	Smart and Sustainable Aerospace Engineering: Aeroelasticity, Morphing, and Maintenance	Environmentally induced degradation and damage: advanced modelling, characterization and optimization aspects (PART I)	Additive Manufacturing & 3D printing: Design, Mechanical Performance, and Structural Integrity (PART I)
Chair:					Dr. Pietro Foti Norwegian University Of Science And Technology, Norway
14:50-15:10	A Novel Non-Local Structural Health Monitoring Method for Real-time Crack Growth Analysis	Probabilistic buckling assessment and reliability of FML, composite and aluminum cylindrical panels under compression with load and fabrication uncertainties	Buckling Prediction of Single-Walled Carbon Nanotube-Reinforced Laminated Composite Structures under Hygro-Thermo-Mechanical Conditions	How modelling can accelerate the design of active protective coatings?	Peening based surface treatments for post-processing of additive manufactured AlSi10Mg alloy
	Faraz Ganjdoust, <u>Adnan Kefal</u> , Ali Javili	<u>Costas Kalfountzos</u> , George Bikakis, Efstathios Theotokoglou	Stelios Georgantzinos, Panagiotis Antoniou, <u>Konstantinos Stamoulis</u> , Christos Spitas	Mikhail Zheludkevich	Erfan Maleki, Asghar Heydari Astaraee, <u>Amir Ardeshiri Lordejani</u> , Sara Bagherifard, Mario Guagliano
15:10-15:30	Development of novel multi- dimensional data fusion technique for evaluation of adhesive bonded joints using ultrasonic and X-ray radiographic non-destructive testing	Investigation of the size effect on the critical distance and fatigue life using the highly stressed volume approach	Liquid Hydrogen Storage Tank Virtual Crashworthiness Design Exploration for Civil Aircraft	Interoperability of experimental and simulation data along production chains on the VIPCOAT Open Innovation Platform	Cold spray depositions of Multi- Principal Element Alloys – Sprayability and Characterization
	<u>Gawher Ahmad Bhat</u> , Bengisu Yilmaz, Damira Smagulova, Vaidotas Cicènas, Egidijus Žukauskas, Elena Jasiuniene	<u>Jinchao He</u> , Shunpeng Zhu, Xiaopeng Niu, Ding Liao	Antoine Gallois, Ioannis Giannopoulos, <u>Efstathios Theotokoglou</u>	<u>Natalia Konchakova, Peter Klein</u> , Peter Visser, Heinz A. Preisig, Thomas F. Hagelien	Magesh Kumaravel, <u>Amir Ardeshiri</u> <u>Lordejani</u> , Sara Bagherifard, Mario Guagliano
15-30-15-50	Monitoring of structures integrity in operation	Probabilistic lifetime assessment of a lost foam cast Al-Si alloy based on microcomputed tomographic measurements	Liquid Hydrogen Storage Tank Loading Generation for Civil Aircraft Damage Tolerance Analysis	Modelling mechanically induced failure of PEO coated extruded magnesium	On the Effect of Load Ratio on the Fatigue Behaviour of C45 Steel
13.30 13.30	<u>Vladimir Chmelko</u> , Tomáš Koščo	<u>Martin Wagner</u> , Gerrit Barth, Andreas Mösenbacher, Martin Hoyer, Marco Riva, Hans-Jürgen Christ	Ioannis Giannopoulos, <u>Efstathios.</u> <u>Theotokoglou</u>	<u>Eugen Gazenbiller</u> , Natalia Konchakova, Maria Serdechnova, Carsten Blawert, Daniel Höche, Mikhail L. Zheludkevich	<u>Pietro Foti</u> , Aldo Milone, Stefano Filippo, Raffaele Landolfo, Filippo Berto
	Improved Damage Mapping with Hyperbola Approach for Guided Waves Based Structural Health Monitoring Using Fiber Bragg Grating sensors	The Generalized Local Model: Review of applications during the last 5 years	A Novel, Non-Contact NDT Scanner Case Study: Thickness Measurement, Debonding and Crack Detection in Composites	Numerical simulation of corrosion- induced damage on Al-Cu-Li 2198 alloy	FATIGUE TESTING OF A LIGHTWEIGHT COMPONENT MADE OF ADDITIVELY MANUFACTURED ALUMINUM ALLOY
15:50-16:10	<u>Rohan Soman</u> , Kara Peters, Tomasz Wandowski, Wieslaw Ostachowicz	<u>Miguel Muñiz Calvente</u> , Alfonso Fernandez Canteli	Arno Volker, <u>Konstantinos Stamoulis</u> , Donald Tongeren, Bart Bekkema, Robert Poppe	Eleftheria-Sotiria Louka , Paraskevas Papanikos , Markos Margaritis, Christina Margarita Charalampidou, <u>Nikolaos</u> <u>Alexopoulos</u>	<u>Gianni Nicoletto</u> , Federico Uriati, Giovanni Fortese, Enrica Riva Mr Enrico Carrara will present on behalf of Prof. Gianni Nicoletto
16:10-16:20		Coffee Break			
			Collee Break		
16:20-17:40	CLASSROOM ANTIQUE	CLASSROOM 1	CLASSROOM 2	CLASSROOM 4	CLASSROOM 5
16:20-17:40 Session:	CLASSROOM ANTIQUE Non-Destructive Testing, Structural Health Monitoring and Robotic applications for prevention of failure and maintenance of different infrastructures (PART II)	CLASSROOM 1 Size effect and probabilistic failure assessment (PART II)	CLASSROOM 2	CLASSROOM 4 Environmentally induced degradation and damage: advanced modelling, characterization and optimization aspects (PART II)	CLASSROOM 5 Additive Manufacturing & 3D printing: Design, Mechanical Performance, and Structural Integrity (PART II)
16:20-17:40 Session: Chair:	CLASSROOM ANTIQUE Non-Destructive Testing, Structural Health Monitoring and Robotic applications for prevention of failure and maintenance of different infrastructures (PART II) Prof. Elena Jasiuniene & Dr. Valentina I vanova Kaunas University of Technology, Lithuania - CEA, France	CLASSROOM 1 Size effect and probabilistic failure assessment (PART II) Prof. Alfonso Fernandez-Canteli & Dr. Miguel Muniz-Calvente & Dr. Sergio Blazón University of Oviedo, Spain	CLASSROOM 2 Innovative composites for sustainability (PART I) Dr. Claudio Mingazzini University of Padova, Italy	CLASSROOM 4 Environmentally induced degradation and damage: advanced modelling, characterization and optimization aspects (PART II) Prof. Mikhail Zheludkevich & Dr. Natalia Konchakova & Prof. Nikolaos Alexopoulos Helmholtz-Zentrum Herecon, Germany- University of the Aegean, Greece	CLASSROOM 5 Additive Manufacturing & 3D printing: Design, Mechanical Performance, and Structural Integrity (PART II) Dr. Pietro Foti Norwegian University Of Science And Technology, Norway
16:20-17:40 Session: Chair: 16:20-16:40	CLASSROOM ANTIQUE Non-Destructive Testing, Structural Health Monitoring and Robotic applications for prevention of failure and maintenance of different infrastructures (PART II) Prof. Elena Jasiuniene & Dr. Valentina Ivanova Kaunas University of Technology, Lithuania - CEA, France RIMA network of Digital Innovation Hubs a tool to for the Innovation in Inspection and Maintenance of infrastructures	CLASSROOM 1 Size effect and probabilistic failure assessment (PART II) Prof. Alfonso Fernandez-Canteli & Dr. Miguel Muniz-Calvente & Dr. Sergio Blazon University of Oviedo, Spain Probabilistic assessment of rolling contact fatigue including the scale effect	CLASSROOM 2 CLASSROOM 2 Innovative composites for sustainability (PART I) Dr. Claudio Mingazzini University of Padova, Italy Fatigue behaviour of 10% wt. short glass fibre reinforced recycled Polypropylene with mineral filler in presence of notches	CLASSROOM 4 Environmentally induced degradation and damage: advanced modelling, characterization and optimization aspects (PART II) Prof. Mikhail Zheludkevich & Dr. Natalia Konchakova & Prof. Nikolaos Alexopoulos Helmholtz-Zentrum Hereon, Germany- University of the Aegean, Greeze The effect of artificial ageing kinetics on mechanical performance of Al-Cu-Li alloy AA2198	CLASSROOM 5 Additive Manufacturing & 3D printing: Design, Mechanical Performance, and Structural Integrity (PART II) Dr. Pietro Foti Norwegian University Of Science And Technology, Norway Crystal plasticity modeling of lamellar deformation in bimodal Ti-6AL-AV under mechanical fatigue
16:20-17:40 Session: Chair: 16:20-16:40	CLASSROOM ANTIQUE Non-Destructive Testing, Structural Health Monitoring and Robotic applications for prevention of failure and maintenance of different infrastructures (PART II) Prof. Elens Jasiuniene & Dr. Valentina Ivanova Kaunas University of Technology, Lithuania - CEA, France RIMA network of Digital Innovation Hubs a tool to for the innovation in Inspection and Maintenance of infrastructures Peter Trampus, Christophe Leroux, Mariann Mertz	CLASSROOM 1 Size effect and probabilistic failure assessment (PART II) Prof. Alfonso Fernandez-Canteli & Dr. Miguel Muniz-Calvente & D. Sergio Blazón University of Oviedo, Spain Probabilistic assessment of rolling contact fatigue including the scale effect <u>Mikel Escalero</u> , Haritz Zabala, Mireia Olave	CLASSROOM 2 CLASSROOM 2 Innovative composites for sustainability (PART I) Dr. Claudio Mingazzini University of Padova. Italy Fatigue behaviour of 10% wt. short glass fibre reinforced recycled Polypropylene with mineral filler in presence of notches Filippo Coppola, Mauro Ricotta, Marco Garilli, Luz Fabbro, Ivan Azzalin, Gievanni Meneghetti	CLASSROOM 4 Environmentally induced degradation and damage: advanced modelling, characterization and optimization aspects (PART II) Prof. Mikhail Zheludkevich & Dr. Natalia Konchakova & Prof. Mikhail Zheludkevich & Dr. Natalia Konchakova & Dr. N	CLASSROOM 5 Additive Manufacturing & 3D printing: Design, Mechanical Performance, and Structural Integrity (PART II) Dr. Pietro Foti Norwegian University Of Science And Technology, Norway Crystal plasticity modeling of lamellar deformation in bimodal Ti-6AI-4V under mechanical fatigue Keke Tang, Yindun Zhao, Paolo Ferro, Filippo Berto
16:20-17:40 Session: Chair: 16:20-16:40	CLASSROOM ANTIQUE Non-Destructive Testing, Structural Health Monitoring and Robotic applications for prevention of failure and maintenance of different infrastructures (PART II) Prof. Elens Jasiuniene & Dr. Valentina Ivanova Kaunas University of Technology, Lithuania - CEA, France RIMA network of Digital Innovation Hubs a tool to for the innovation in Inspection and Maintenance of infrastructures Peter Trampus, Christophe Leroux, Mariann Mertz Implementation of a Robotic Mobile Manipulator moving a NDT probe inside Steel Cylinder Concrete Pipes for Corrosion Assessment	CLASSROOM 1 Size effect and probabilistic failure assessment (PART II) Prof. Alfonso Fernandez-Canteli & Dr. Miguel Muniz-Calvente & Dr. Sergio Blazón University of Oviedo. Spain Probabilistic assessment of rolling contact fatigue including the scale effect <u>Mikel Escalero</u> , Haritz Zabala, Mireia Olave Fatigue crack growth prediction: from lab to real component	CLASSROOM 2 CLASSROOM 2 Innovative composites for sustainability (PART I) Dr. Claudio Mingazzini University of Padova, Italy Fatigue behaviour of 10% wt. short glass fibre reinforced recycled Polypropylene with mineral filler in presence of notches Filippo Coppola, Maura Bicotta, Marco Garilli, Luca Fabbro, Ivan Azzalin, Giovanni Meneghetti Mechanical characterizations on biobased FMLs, being developed for battery boxes, before and after ageing battery boxes, before and after ageing in salt spray chambers	CLASSROOM 4 Environmentally induced degradation and damage: advanced modelling, characterization and optimization aspects (PART II) Prof. Mikhail Zheludkevich & Dr. Natalia Konchakova & Prof. Nikolaos Alexopoulos Helmholtz-Zentum Hereon, Germany- University of the Aegean, Greece The effect of artificial ageing kinetics on mechanical performance of AI-Cu-Li alloy AA2198 <u>Nick Birbilis</u> , Christina Charalampidou, Nikolaos Alexopoulos Investigation on the effect of artificial ageing kinetics on corrosion susceptibility of AI-Cu-Li 2198 alloy	CLASSROOM 5 Additive Manufacturing & 3D printing: Design, Mechanical Performance, and Structural Integrity (PART II) Dr. Pietro Foti Norwegian University Of Science And Technology, Norway Crystal plasticity modeling of lamellar deformation in bimodal Ti-6AL-4V under mechanical fatigue Keke Tang, Yindun Zhao, Paolo Ferro, Filippo Berto High-cycle fatigue performance of hierarchically porous titanium scaffolds produced by additive manufacturing and its possible improvement by gas
16:20-17:40 Session: Chair: 16:20-16:40 16:50-17:00	CLASSROOM ANTIQUE Non-Destructive Testing, Structural Health Monitoring and Robotic applications for prevention of failure and maintenance of different infrastructures (PART II) Prof. Elena Jasiuniene & Dr. Valentina Ivanova Kaunas University of Technology, Lithuania - CEA, France RIMA network of Digital Innovation Hubs a tool to for the innovation in Inspection and Maintenance of infrastructures Peter Trampus, Christophe Leroux, Mariann Mertz Implementation of a Robotic Mobile Manipulator moving a NDT probe inside Steel Cylinder Concrete Pipes for Corrosion Assessment Eric Lucet, Farès Kfoury, Lucas Si Larbi Dr. Frederic Colledani will present on behalf of Dr. Eric Lucet	CLASSROOM 1 Size effect and probabilistic failure assessment (PART II) Prof. Alfonso Fernandez-Canteli & Dr. Miguel Muniz-Calvente & Dr. Sergio Blazón University of Oviedo. Spain Probabilistic assessment of rolling contact fatigue including the scale effect Mikel Escalero, Haritz Zabala, Mireia Olave Fatigue crack growth prediction: from lab to real component Giovanna Calvin Garcia, Mikel Escalero, Haritz Zabala, Mizel Muniz-Colvente	CLASSROOM 2 CLASSROOM 2 Innovative composites for sustainability (PART I) Dr. Claudio Mingazzini University of Padova, Italy Fatigue behaviour of 10% wt. short glass fibre reinforced recycled Polypropybene with mineral filler in presence of notches Filippo Coppola, Mauro Ricotta, Marco Garilli, Luca Fabbro, Ivan Azzalin, Giovanni Meneghetti Mechanical characterizations on biobased FMLs, being developed for biobased FMLs, being	CLASSROOM 4 Environmentally induced degradation and damage: advanced modelling, characterization and optimization aspects (PART II) Prof. Mikhail Zheludkevich & Dr. Natalia Konchakova & Prof. Nikolaos Alexopoulos Prof. Nikolaos Alexopoulos Heimbergenergenergenergenergenergenergenerge	CLASSROOM S Additive Manufacturing & 3D printing: Design, Mechanical Performance, and Structural Integrity (PART II) Dr. Pietro Foti Norwegian Driversity Of Science And Technology, Norway Crystal plasticity modeling of lamellar deformation in bimodal Ti-6AI-4V under mechanical fatigue Keke Iang, Yindun Zhao, Paolo Ferro, Filippo Berto High-cycle fatigue performance of hierarchically porous titanium scaffolds produced by additive manufacturing and its possible improvement by gas nitriding Kares [Sameika, Adelia Kashimbetova, Serhii Tkachenko, Pavel Gejdös, Jaroslav Pokuda, Edgar Benjamin Montufar, Ladislav Čelko
16:20-17:40 Session: Chair: 16:20-16:40 16:50-17:00	CLASSROOM ANTIQUE Non-Destructive Testing, Structural Health Monitoring and Robotic applications for prevention of failure and maintenance of different infrastructures (PART II) Prof. Elena Jasiuniene & Dr. Valentina Ivanova Kaunas University of Technology, Lithuania - CEA, France RIMA network of Digital Innovation Hubs a tool to for the innovation in Inspection and Maintenance of infrastructures Peter Trampus, Christophe Leroux, Mariann Mertz Implementation of a Robotic Mobile Manipulator moving a NDT probe inside Steel Cylinder Concrete Pipes for Corrosion Assessment Eric Lucet, Farès Kfoury, Lucas Si Larbi Dr. Frederic Colledani will present on behalf of Dr. Eric Lucet Combining Thick and Thin Film Sensor Manufacturing Techniques for Realization of Smart Components via High and Low Pressure Die Casting	CLASSROOM 1 Size effect and probabilistic failure assessment (PART II) Prof. Alfonso Fernandez-Canteli & Dr. Miguel Muniz-Calvente & Dr. Sergio Blazon University of Oviedo. Spain Probabilistic assessment of rolling contact fatigue including the scale effect Mikel Escalero, Haritz Zabala, Mireia Olave Fatigue crack growth prediction: from lab to real component Silovanna Calvin Garcia, Mikel Escalero, Haritz Zabala, Miguel Muniz-Calvente An extension of the Weibull regression model to cover the LCF, HCF and HVEF regimes for fatigue results performed at different stress ratios R	CLASSROOM 2 CLASSROOM 2 Innovative composites for sustainability (PART I) Dr. Claudio Mingazzini University of Padova, Italy Fatigue behaviour of 10% wt. short glass fibre reinforced recycled Polypropybene with mineraf filler in presence of notches Filippo Coppola, Mauro Ricotta, Marco Garilli, Luca Fabbro, Ivan Azzalin, Giovanni Meneghetti Mechanical characterizations on biobased FMLs, being developed for battery boxes, before and after ageing in salt spray chambers Claudio Mingazzini, Enrico Leoni, Stefano Bassi, Tiziano Delise, Matteo Scafe, Giulia De Aloysio, Luca Laghi, Gian Luca Falleti Thermophysical characterization of innovative and recyclable composites, being developed and considered for battery boxes mass production	CLASSROOM 4 Environmentally induced degradation and damage: advanced modelling, characterization and optimization aspects (PART II) Prof. Mikhail Zheludkevich & Dr. Natalia Konchakova & Prof. Nikolaos Alexopoulos Prof. Mikhail Zheludkevich & Dr. Natalia Konchakova & Prof. Nikolaos Alexopoulos Heidembergentum Hereor, Germany- Heidemholtz-Centrum Hereor, Germany- University of the Aegean, Greece The effect of artificial ageing kinetics on mechanical performance of Al-Cu-Li alloy AA2198 Nick Birbilis, Christina Charatampidou, Nikolaos Alexopoulos Investigation on the effect of artificial ageing kinetics on corrosion susceptibility of Al-Cu-Li 2198 alloy Mikhail Zheludkevich, Christina Charatampidau, Markos Margaritis, Nikolaos Alexopoulos The effect of pre-stretching induced microstructural transformations on the corrosion behaviour of ALCu-Li 2198 alloy	CLASSROOM 5 Additive Manufacturing & 3D printing: Design, Mechanical Performance, and Structural Integrity (PART II) Dr. Pietro Foti Norwegian Driversity Of Science And Technology, Norway Crystal plasticity modeling of lamellar deformation in bimodal Ti-6AI-4V under mechanical fatigue <u>Keke Tang</u> , Yindun Zhao, Raolo Ferro, Filippo Berto High-cycle fatigue performance of hierarchically porous titanium scaffolds produced by additive manufacturing and its possible improvement by gas nitriding <u>Karel Sidmečka</u> , Adelia Kashimbetova, Serhii Tkachenko, Pavel Gejdős, Jaroslav Pokluda, Edgar Benjarini Montufar, Ladislav Čelko Wear and Friction Behaviour of Additive Manufactured PEEK under Non-conformal Contact
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Conference Program

Conference Day 3 | Friday, June 23rd 2023

08:30-11:00	Registrations						
09:00-09:30			амрніт	THEATRE			
Keynote Lecture:	Multifunctional graphene composites for aerospace and automotive applications Prof. Costas Galiotis University of Patras & FORTH/ICE-HT, Greece						
Chair:			Prof. Spiros Pantelakis	ICEAF VII co-Chairman			
09:30 - 10:50	CLASSROOM ANTIQUE	CLASSROOM 1	CLASSROOM 2	CLASSROOM 4	CLASSROOM 5	CLASSROOM 3	
Session:	Crack propagation in materials and crack-stop engineering (PART I)	Experimental and Numerical Investigation and Validation of Sandwich Composite Materials and Aircraft Structures (PART I)	Innovative composites for sustainability (PART II)	Structural Health Monitoring for Composite Structures (PART I)	Characterization of Fractures (PART I)	Steel health monitoring & rehabilitation	
Chair:							
09:30-09:50	3D Crack Propagation Study of a Railway Component using XFEM Method	Parametric study of guided wave propagation in honeycomb sandwich panel for model-assisted damage assessment method	Fire Resistance characterization and post-fire evaluation of residual mechanical strength	Acoustic Emission Analysis on Mechanical Properties and Damage Evolution of Multiscale Kevlar/Glass Hybrid 3D Orthogonal Woven Composites under Flexural Loading	Failure analysis on premature fracture of valve rod of circulating pump gate valve in a nuclear power plant	Universality in magnetically detected residual stresses in steels and method to determine the actual stress level distribution	
	<u>Teresa Morgado</u> , Ricardo Dias, Manuel Pereira	<u>Piotr Fiborek.</u> Pawel Kudela	<u>Patricia Ares</u> , Jesus Ballestero, Claudio Mingazzini, Enrico Leoni, Stefano Bassi, Matteo Scafe	<u>Abdulrahman Al-Nadhari</u> , Halil Senol, Hasan Ulus, Serra Topal, Mehmet Yildiz	Zhen-Guo Yang	Georgia Stamou, Polychronis Pattakos, Spyridon Angelopoulos, Aphrodite Ktena, <u>Evangelos Hristoforou</u>	
	The role of intermetallic particles and grain boundaries at various mechanical orientations in AA 7075 aluminum alloy	Experimental and Numerical Investigation of the In-Plane Shear Behavior of A-5052 Honeycomb Core under monotonic tension loading	Aging Behavior of Rubber Compounds Prepared with Different ZnO Types	A vibration-based machine learning type Structural Health Monitoring methodology for populations of composite aerostructures under uncertainty	Microstructure of White Etching Area around Subsurface Cracks in Bearings	On the Barkhausen noise in naval steel:	
09:50-10:10	<u>Alexandros Prospathopoulos.</u> Apostolos Argyros, Christos Gakias, Georgios Savvaidis, Nikolaos Michallidis	<u>John Pikilidis</u> , Antonis Tsirigotis, Nikos Sevastianos, Alexis Kermanidis, George Labeas	<u>Cansu Börüban Bingöl</u> , Şeyda Polat, Ş. Hakan Atapek	Ioannis E. Saramantas, Panayotis E. Spillotopoulos, <u>Fation T. Fera</u> , Dimitrios Bourdalos, John S. Sakellariou, Spillos D. Fassois, Yoav Ofir, Idda Kressel, Moshe Tur, Christos Spandonidis	Alexandros Banis, Ksenija Nikolic, Loïc Malet, <u>Roumen Petrov</u>	Polychronis Pattakos, Georgia Stamou, Spyridon Angelopoulos, Aphrodite Ktena, <u>Evangelos Hristoforou</u>	
	Properties of the crack resistance of layered composite and simulation of a crack quasi-static growth	Mechanical behavior of perforated and unperforated aluminum honeycomb core under shear loading	Crosspreg [®] , an innovative reactive hybrid prepreg, mass production dedicate, with a low LCA profile and easy recyclable for Fenice Kic Project	Development and experimental validation of a Machine Learning based SHM prototype system for composite aerostructures	Tensile properties of 3D printed INCONEL 718 cellular specimens	AMR sensor for Steel Health Monitorin	
10:10-10:30	Vitalijs Pavelko	<u>Markus Gastens</u> , Athanasios Dafnis, Kai- Uwe Schröder	<u>Gianluigi Creonti</u> , Claudio Mingazzini, Matteo Scafè	<u>Panavotis E. Spiliotopoulos</u> , Fation T. Fera, Panagiotis Papadopoulos, Fotios Giannopoulos, Christos Spandonidis, Moshe Tur, Yoav Ofir, Iddo Kressel, Ioannis Saramantas, John Sakellariou, Spilios Fassois	<u>Katarina Monkova</u> , George A. Pantazopoulos, Peter Pavol Monka, Anagnostis I. Toulfatzis, Kristina Lengyelova, Sofia Papadopoulou	<u>Georgia Stamou</u> , Spyridon Angelopoulos, Polychronis Pattakos, Aphrodite Ktena, Evangelos Hristoforou	
10:30-10:50	Construction of prior models used within Bayesian schemes for fatigue crack growth SHM in marine structures	Multi-physics finite element model of a general aviation liquid hydrogen fuel tank	DEVELOPMENT OF WATER-BASED INORGANIC MATRICES FOR THE PRE- IMPREGNATION OF FIRE-RESISTANT LAMINATED COMPOSITES	Inverse finite element analysis for delamination detection in composite structures subjected to forced vibration	The influence of over-aging on the multiaxial fatigue behavior of the cast AlSi7Cu0.5Mg0.3 alloy	Hall Sensors For Steel Health Monitoring	
	Nicholas Silionis, <u>Pavlos Makris</u> , Konstantinos Anyfantis	George Tzoumakis, <u>George Lampeas</u>	<u>Annalisa Natali Murri</u> , Elettra Papa, Elena Landi, Claudio Mingazzini, Matteo Scafè, Valentina Medri	Faraz Ganjdoust, <u>Adnan Kefal</u> , Alexander Tessler	Viet-Duc LE, Pierre OSMOND, <u>Daniel</u> <u>BELLETT</u> , Franck MOREL	<u>Polychronis Pattakos</u> , Spyridon Angelopoulos, Georgia Stamou, Aphrodite Ktena, Evangelos Hristoforou	
10:50-11:00			Coffee Break				
11.00.12.00							
11:00-12:00	CLASSROOM ANTIQUE	CLASSROOM 1	CLASSROOM 2	CLASSROOM 4	CLASSROOM 5		
Session:	CLASSROOM ANTIQUE Crack propagation in materials and crack-stop engineering (PART II)	CLASSROOM 1 Experimental and Numerical Investigation and Validation of Sandwich Composite Materials and Aircraft Structures (PART II)	CLASSROOM 2 Innovative composites for sustainability (PART III)	CLASSROOM 4 Structural Health Monitoring for Composite Structures (PART II)	CLASSROOM 5 Characterization of Fractures (PART II)		
Session: Chair:	CLASSROOM ANTIQUE Crack propagation in materials and crack-stop engineering (PART II) Prof. Ehrenfried Zschech deepXxcan GmbH, Germany	CLASSROOM 1 Experimental and Numerical Investigation and Validation of Sandwich Composite Materials and Aircraft Structures (PARTII) Prof. George Lampeas & Prof. Alexis Kermanidis & Dr. Athanaiso Danis University of Patras, Greece - University of Thesaly, Greece - WITH Aachen University, Germany	CLASSROOM 2 Innovative composites for sustainability (PART III) Dr. Claudio Mingazzini University of Padova, Italy	CLASSROOM 4 Structural Health Monitoring for Composite Structures (PART II) Prof. Konstantinos Tserpes University of Patras, Greece	CLASSROOM S Characterization of Fractures (PART II) Dr. George Pantazopoulos ELKEME, Greece		
11:00-12:00 Session: Chair: 11:00-11:20	CLASSROOM ANTIQUE Crack propagation in materials and crack-stop engineering (PART II) Prof. Ehrenfried Zschech deepXcan GmbH Germany Quasi-static and fatigue crack growth simulation in co-consolidated thermoplastic joints containing crack arrest features	CLASSROOM 1 Experimental and Numerical Investigation and Validation of Sandwick Composite Materials and Aircraft Structures (PARTII) Prof. George Lampeas & Prof. Alexis Kermanidis & Dr. Athanasios Dafnis University of Patras, Greece - University of Thesoly, Greece - University Development of a numerical methodology for the analysis of the post-buckling and failure behaviour of composite stiffened panels considering the effect of initial debonding	CLASSROOM 2	CLASSROOM 4 Structural Health Monitoring for Composite Structures (PART II) Prof. Konstantinos Tserpes University of Partas. Greece RANDOM VIBRATION-BASED PROGRESSIVE FATIGUE DAMAGE MONITORING OF THERMOPLASTIC COUPONS UNDER POPULATION AND OPERATIONAL UNCERTAINTY	CLASSROOM 5 Characterization of Fractures (PART II) Dr. George Pantaz op oulos ELKEME, Greece Evaluation of the susceptibility of Refractory Multicomponent alloys to Thermal Shock towards the Improvement of their manufacturability		
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