	Wednesday		Thursday		Friday	
	K-J17-102		K-J17-102 K-J17-101		K-J17-102 K-J17-101	
8:45	P1: Yu Win Mai  Micro-grain Weibull strength distribution and fracture toughness of brittle ceramics					
9:00			<b>K4: Brian Falzon</b> From Nano to Macro: Engineering Fracture Toughness in Multiphase Epoxy Composites			
9:30	K1: Brad Boyce Impeding Crack Nucleation and Enabling Crack Healing in Nanocrystalline Metals		K5: Michael Preuss  Linking localized plasticity to crack initiation		K3: Sarah Zang High-performance epoxy-based nanocomposite adhesives incorporating carbon nanofibers and carbon nanotubes for enhanced bond strength, fracture toughness, and high-temperature performance	
10:00-10:30	0:30					
10.00 10.00	MORNING TEA		MORNING TEA		MORNING TEA	
10:30		<b>O4-01: Francis Rose</b> Can delaminations be modelled as a reduction in bending stiffness?	O5-01: Jamie Kruzic  Enhancing the machanical proportion of a larger powder had	O7-01: Zane Hills	O2-01: Emmanuel Flores-Johnson  Experimental and numerical study of the inclastic and failure behaviour of IC.	O9-04: Han Zhang Integrating Physics-Informed Neural Networks with Phase-Field Modelling for
	Mechanical behavior of the 3D printed continuous fiber-reinforced composite gyroid structure under quasi-static and dynamic compression	Can detaillinations be infodelled as a reduction in bending stiffless:	Enhancing the mechanical properties of a laser powder bed fusion fabricated bulk metallic glass	Centre-barrel	nuclear graphite	Thermoelastic Fracture
10:50		<b>O4-02: Wenyi Yan</b> A new approach to calibrate Goldak's heat source model for additive	O5-02: James Vidler  Effect of heat treatment on fatigue properties of Stainless Steel and Inconel	O7-02: Michael Jones  Monitoring fatigue crack growth through the use of automated crack cameras in	O2-02: Wengui Li Graphene reinforced cement-based triboelectric nanogenerator for efficient	O9-05: Tingxuan Yao Enhancing Self-Healing in Concrete Using Natural Fibers as Bacterial Carriers
	Fatigue life evaluation under variable amplitude loading	manufacturing	fabricated using laser powder bed fusion	a full-scale component damage tolerance test	energy harvesting in civil infrastructure	Liliancing Seti-Heating in Concrete Osing Natural Libers as Dacterial Carriers
11:20		<b>O4-03: Chi Wu</b> Topology Optimization for Multi-Component Robotic Arms under Time-Varying	O5-03: Rais Taufiq Factors Controlling Residual Stress Formation in Laser Powder Bed Fusion	<b>O7-03: Isaac Field</b> Recrystallised annealed titanium fatigue crack nucleation and growth in a	O2-03: Zhao Sha Controlling snapback in indirect tensile testing of brittle materials	O9-06: Patricio Peralta-Braz Simultaneous Energy Harvesting and Bearing Fault Detection using Piezoelectric
	Controlling snapback in indirect tensile testing of brittle materials	Loads	Components	combat aircraft structure	Controlling shapback in indirect tensite testing of brittle materials	Energy Harvesters
11:40		O4-04: Md Mohiuddin	O5-04: Wendy Ji  The development and validation of finite element models	07-04: Ben Main	O2-04: Jojibabu Panta  Effect of continuous ways laser irradiation nower and beam diameter	O9-07: Arcady Dyskin
	Fracture Analysis and Design Optimisation of Dental Structures: An XFEM-Based Study	Tremispherical notion dome crash worthiness analysis	The development and validation of finite element models of additive manufacturing	Failure analysis of service fatigue cracks in aircraft structures - going further	Effect of continuous wave laser irradiation power and beam diameter on thermal degradation of carbon fibre-reinforced polymer (CFRP) composites	Mechanism of rock spallation
12:00	O1-05: Bosong Li	O4-05: Wenkai Chang	O5-05: Markus Domogala	O7-05: Aditya Khanna	O2-05: Shiyao Zhu	O2-06: Bingnong Jiang
		Prediction of Micro-Crack Networks in Carbon Fibre Composites at Cryogenic Temperatures	Structural Integrity and Defect Analysis of Wire-Arc Additively Manufactured 316 Stainless Steel Components		Experimental and numerical study of laser paint stripping on CFRP	Improving the Fracture Toughness and Flame retardancy of Epoxy Polymers by Polydopamine Nanoparticles
12:20			O5-06: Min-Chang Wu	O7-06: Tingyuan Yin	CLOSING	
		Topology optimization of CFRP laminated structures considering Tsai-Wu failure		Enhancing Electromagnetic Acoustic Transducer (EMAT) Performance Using Amplitude-Modulated Signals for Nonlinear Wave Mixing and Structural Health	OLOGINO .	
	hot work tool steel	chenon and experimental validation		Monitoring		
12:40-14:00	LUN	NCH	LU	UNCH		
14:00	.4:00 Enhancing the high-cycle fatigue performance of precipitate strengthened Al alloys		K8: Stefanie Feih Impact of Manufacturing Imperfections on Structural Performance in Advanced Manufacturing			
14:30		<b>O4-07: Xiaorui Chen</b> Wearable Ultrasound with Sensor Array for Doppler-Based Blood Flow Monitoring	O5-07: Pritam Biswas Influence of Laser Cladding in Microstructural Evolution of Stellite 21 On Light	O7-07: Zhongqing Su Optoacoustic Characterization of Three-Dimensional, Nanoscopic Interior		
	different types of defects		Rail	Features of Microchips Using Ultrafast Laser		
		<b>O4-08: Benjamin Pollock</b> Multiobjective column layout optimisation to balance structural performance	O5-08: Ibrahim Ibrahim Automated Image-Based Analysis of Deleterious Phases in Stainless	O7-08: Kashmira Raghu Analysis of Crystal Defects by Electron Channeling Contrast Imaging (ECCI)		
	ductility of additive manufacturing specimens	and resource efficiency whilst ensuring structural integrity	Steel and Correlation with Mechanical Properties	for Advanced Failure Analysis		
15:10		O4-09: Shuai Yao Design of Simultaneous Energy Harvesting and Sensing Systems for Bridge	O5-09: Enyong Zhao Structural Reliability Analysis Through Adaptive Sampling Surrogate-assisted	<b>O9-01: Arcady Dyskin</b> Coalescence of many fractures or non-planar growth of a single fracture?		
	Connectors	Health Monitoring	Most Probable Point Capturing Method			
15:30-16:00	AFTERNOON TEA		AFTERI	NOON TEA		
					O1: Damage & failure mechanisms: deformation, fracture & fatigue	
16:00	00 K6: Ondrej Muranski		K7: Qing Li			
	Bridging Scales: Multiscale Insights into Manufacturing, Materials Behavior and Structural Integrity		Topology optimization of lightweight structures for fracture criteria			
					O2: Ceramics, po	lymers & composites
16:30			O8-01: Weihua Li Exploring Hybrid Conductive Composite for Flexible Sensors	<b>O9-02: Elena Atrhoshchenko</b> Reliability-based analysis and design of steel-reinforced timber columns		
	based fracture initiation criterion	Element Method (CPFEM) Models			04: Theoretical analysis, modelling, &	& design including AI & Machine Learning
	<b>O1-11: Andrei Kotousov</b> On the development of compliance-based techniques for the evaluation of crack		O8-02: Boyang Wan Biomechanical Assessment of fixation Plate used for Mandibular Reconstruction			
		Laminates Subjected to Laser Irradiation		Drive-By Inspection by Integrating Kalman Filter and Optimization Approach	O5: Metals & alloys + Manufacturing	processes (incl Additive Manufacturing)
17:10	·					
	Drive-By Inspection	ASME BPVC rules		O6: Experimental evaluation & characterisation		
17:30		O4-13: Yuhang Tian  STM E1921 Reference Temperature,  Virtual modelling framework based elastoplastic analysis on mechanical				
	T0  O6-03: Zhi Zhu Structural Integrity and Vibration Analysis of Pressurised Liquid Container Brackets: Numerical and Experimental Insights  metamaterials  O4-14: Fernando Valiente-Dies Numerical Simulations of the Wire-Arc Additive Manufacturing (WAAM) Process				07: Industrial applications, structural integrity & failure investigations	
					O8: Durability of structures & devices	
18:00-19:00	18:00-19:00 COCKTAIL HOUR					
	0.4F 01.4F				09: Civil engineering, geology & mining	
18:45-21:45	45		CONFERENCE DINNER			