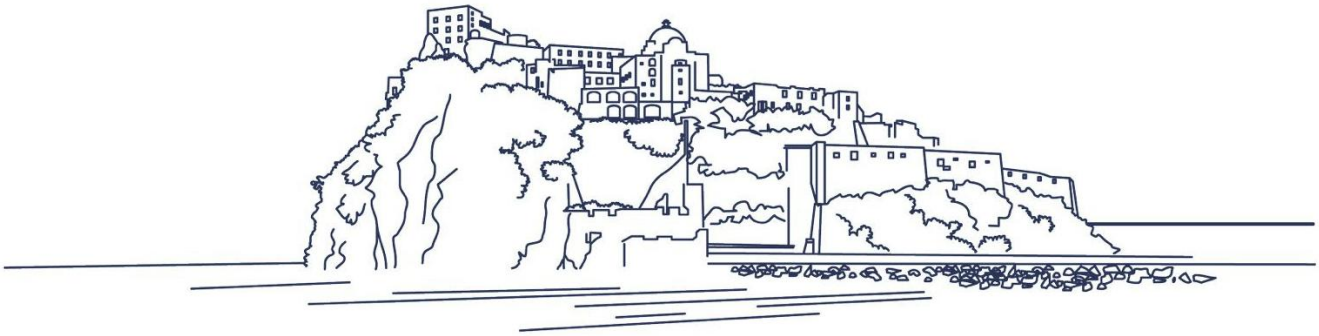
6th DRaF CONFERENCE



2026

6th International Symposium on Dynamic Response and Failure of Composite Materials

DRaF 2026

June 15-19, 2026
Ischia, Naples, Italy

Chair Person

Valentina Lopresto

Department of Chemical, Materials and Production Engineering
University of Naples Federico II

Organizing Committee

Valentina Lopresto

Antonio Langella

Claudio Cigliano

Ilaria Papa

Chiara Cigliano

Davide D'Agostinis Rinaldi

Roberta D'Agostinis Rinaldi

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I. Papa (Univ. of Naples)	F. Romano (CIRA)
M. Guida (Univ. of Naples)	V. Antonucci (CNR-IPCB)

PROGRAM

Monday, June 15th, Afternoon		
15.00	16.00	**Registration**
Room "Aragonese"		
15.00	16.30	**Pre-Conference Event** **Welcome and General Info** – V. Lopresto **CADENCE** – "Driving business value through digital engineering" Leveraging multi-physics, AI and HPC to accelerate smarter decision, A. Mete **EXEMPLAR** – Exemplar - From a business incubator to the Horsa Constellation, C. Fiaschi **ZEISS** – ZEISS Composite Excellence: Innovation in research, quality in manufacturing, and precision in industrial metrology, M. Antonucci **FLIR-DES** – FLIR: The InfraRed Company, N. Genna **DAC** – Composite materials for aeronautical applications: Some open challenges, M. Iannone **TOTAL MATERIA** – Total Materia: Digital Materials Intelligence for Engineering Education and Research, C. Chiaf
16.30	18.15	Session: **Industrial needs and future perspectives** Chair: V. Antonucci
16.30	16.45	The role of innovation intermediaries in the materials sectors: An evolutionary systemic analysis E. Milella (IMAST)
16.45	17.00	FLIR MIX: A breakthrough in infrared & visible imaging N. Genna (FLIR-DES)
17.00	17.15	Data recognition in aerospace manufacturing – (Il sogno continua) S. Marulo, M. Mangone (Dream)
17.15	17.30	Industrial thermolysis of composite waste: Process optimization and recovery performance J. Juan (Composite Recycling)
17.30	17.45	AI-Driven multiscale and multimodal characterization of structures M. Antonucci, (Zeiss)
17.45	18.00	Collaboration pitch session: Bridge the gap between research and Go-to-Market E. Pappa (Leonardo)
18.00	18.15	AITeM: Bridging academic research and the manufacturing industry through innovation A. Squillace (President of AITeM)
18.30	19.30	***Interactive activities and Sponsor demonstrations***
18.30	19.30	***Poster Session***
19.30	21.00	*Welcome Cocktail*

Tuesday, June 16th, Morning			
Room "Aragonese"			
8.00	13.00	International Workshop: **AI-driven Approaches for Space Applications: Challenges, and Interdisciplinary Perspectives** Chair: C. Ieracitano	
8.00	8.45	**Participant Registration**	
8.45	9.00	**Welcome by Symposium Chairperson**	
9.00	9.15	**Welcome by AI4SPACE Committee** Chair: C. Ieracitano	
9.15	9.45	Keynote: **The Inevitable Shift: Navigating the Journey to Satellite Autonomy** *G. Furano* Chair: M. Di Clamente	
9.45	10.30	Session**: ESA Academy** Chair: G. Furano	
9.45	10.00	AI-driven generative design and additive manufacturing for lightweight hexacopter arms R. Castaldo, V. Acanfora, A. Garofano, G. Maisto, M. Zarrelli, A. Riccio	
10.00	10.15	Multi-layer vulnerability analysis in space-ground architectures: COTS-centric defense strategies and post-quantum security paradigms for the Space economy I. M. Cristiano	
10.15	10.30	Neural Network-Based real-time erosion monitoring and adaptivettitude/morphology control for LEO and VLEO spacecraft mission S. Rea, M. Guida	
10.30	11.00	**Coffee Break**	
		Room "Aragonese"	**Room "Aragonese 2"**
11.00	12.00	Session: **AI for Earth Observation from Space** Chair: C. Ieracitano, F.C. Morabito, M. Di Clemente	Session: **AI for Guidance, Navigation, and Control** Chair: R. Furfaro, V. Rodriguez-Fernandez, P. Lanza
11.00	11.15	Quantization for on-board SAR ship detection: A cross-platform benchmark A. Auddino, F. Biancucci, M. Giuliani, S. La Barbera, A. Intelisano	Draft-Seg: Depth-RGB attention fusion for semantic segmentation of Martian Terrain H. Bouchana, C. Ieracitano, N. Mammone, F. C. Morabito
11.15	11.30	Towards streaming change detection for earth observation from space L. Iovine, G. Ziffer, E. Della Valle	JESNet-v2: Hardware-Aware Dual-Stream CNN for Small-Satellite Jitter Estimation G. M. Capuano, F. Saggiomo, B. Confuorto, M. Speranza, E. Zaccagnino, M. Di Clemente

11.30	11.45	A TD3-Based control framework for attitude maneuvering of VLEO earth observation cubesats V. M. Cannavale, M. Illiano, A. Mazzeo, T. A. La Marca, A. Verde, V. Striano, M. Grassi, M. D. Graziano	Pi-Deepnet for attitude and angular velocity estimation from photometric data L. Ramponi, B. Bendiktter, A. D'Ambrosio, R. Furfaro
11.45	12.00	AI-eXpress: In-Orbit edge AI for Earth Observation – toward trustworthy, adaptive, and hybrid Space intelligence systems V. Fortunato, A. Varriale, L. Amoruso, C. Abbattista, G. Furano, D. Romagnoli, S. Antonetti, L. Feruglio	Stability certification of Reinforcement Learning agents for aerospace control problems A. D'Ambrosio, A. Scorsoglio, R. Furfaro
		Room "Aragonese"	**Room "Aragonese 2"**
12.00	13.00	Session: **AI for Autonomous Space Systems – I** Chair: C. Ieracitano, F.C. Morabito, M. Di Clemente	Session: **LLMs and Onboard Space Operations** Chair: R. Furfaro, V. Rodriguez-Fernandez, P. Lanza
12.00	12.15	Autonomous agentic command and control for satellite constellations F. Corallo, C. De Biase, A. Petrucci, A. Auddino, S. Coluzzi, M. Guarino, M. Iacobelli	LLM-Driven program evolution for interplanetary trajectory design: Experiments in GTOC 13 M. Sabater, I. Del Campo, S. Sanchez-Hurtado, V. Rodriguez-Fernandez, J. Yarndley, R. Armellin, R. Linares
12.15	12.30	Autonomous Edge-Based scheduling for Earth observation constellations via distributed inter-satellite coordination G. De Angelis, A. Pietropaolo, L. Mazzini	An application of Large Language Model-based Retrieval Augmented Generation to spacecraft preliminary design processes V. De Marco, P. Mangeruca, M. Pasquali, C. Ciancarelli, G. Pastore (Speaker: D. Di Ienno)
12.30	12.45	Transformer-Based visual terrain analysis for lunar rover traversability mapping V. Prisco, F. Curti	Space smart edge framework for on-board AI integration C. De Biase, A. Petrucci, P. Serri, A. Leboffe, L. Scandelli, D. Di Ienno, C. Ciancarelli, G. Furano, L. Manovi
12.45	13.00	Robustness framework for enhancing ML models reliability on simulated satellite telemetry L. Rossi, R. Morelli, D. Di Ienno, C. Ciancarelli, A. Fiaschetti, I. Pinci	A decision support system for the optimal scheduling of Marsis observations B. Ferrari, A. Avallone, A. Cicchetti, M. Delorme, M. Iori, M. Lippi, R. Orosei
13.00	14.30	**Lunch**	
Tuesday, June 16th, Afternoon			
Room "Aragonese"			
14.30	18.45	International Workshop: **AI-driven Approaches for Space Applications: Challenges, and Interdisciplinary Perspectives** Chair: C. Ieracitano	

14:30	15.00	Keynote: **From Earth Observation to Earth Intelligence: Exploring the New AI Frontier at ESA Φ-lab** *S. Ricci* Chair: F.C. Morabito	
15.00	16.00	Session**: Physics-Informed AI for Space** Chair: R. Furfaro, V. Rodriguez-Fernandez, P. Lanza	
15.00	15.15	PX-TFC: A novel physics-informed Machine Learning framework to solve stochastic optimal control problems M. Conti, A. D'Ambrosio, C. Circi	
15.15	15.30	Chance-constraint approach for PINN-based optimal VLEO maneuvering M. Pagone, E. Capello, P. Martufi, D. Pascale, C. Ciancarelli, T. D'Ignazio (Speaker Davide Di Ienno)	
15.30	15.45	Physics-informed Machine Learning for predicting radiation-induced genomic mutations in long-duration space missions L. Manganaro, M. Assale, L. Bianchi, A. Bisio, E. Cavassi, D. Conti, I. Gabucci, S. Marangoni, E. Scifoni, S. Vattakunnel, L. Strigari, A. Tesei, F. Tommasino, A. Attili	
15.45	16.00	Physics-Informed Neural Network for spacecraft angular velocity estimation from star streaks H. Thukral, F. Curti	
16.00	16.30	**Coffee Break**	
		Room "Aragonese"	**Room "Aragonese 2"**
16.30	17.30	Session: **AI Methods for Space Mission Planning and Autonomy** Chair: C. Ieracitano, F.C. Morabito, M. Di Clemente	Session: **AI Deployment and Intelligent Space Platforms** Chair: R. Furfaro, V. Rodriguez-Fernandez, P. Lanza
16.30	16.45	Tensor modeling of zero-sum games for competitive and cooperative formation flying S. Carletta, A. Farina, G. B. Palmerini, F. De Angelis, S. Ponte	Smart switch: Optimised AI deployment on the ISS M. Iacobelli, C. De Biase, F. Biancucci, M. Guarino, G. Berardi, P. Lanza, F. Di Giorgio, D. Verde
16.45	17.00	Breaking the constraint barrier: TFC for advanced Neural Intelligence R. Furfaro, D. Mortari	Dreamsat-Pose: Spacecraft pose estimation from single-view 3D reconstructions and learned 2D-3D feature matching J. Uwumukiza, J. Zhao, G. Lavezzi, G. Battaglia, P. Panicucci, M. C. Wijayatunga, V. Rodriguez-Fernandez, R. Linares
17.00	17.15	Learning-Based minimum-time guidance for low-thrust spacecraft rendezvous K. Wang	Multi-source wind speed retrieval from airborne GNSS-R delay-doppler maps and SAR imagery using Machine and Deep learning M. Maragliano, G. Graziano, D. Giampaoli, V. Corcione, A. Togni, G. C. Rodi
17.15	17.30	Artificial Intelligence-Based autonomous orbit determination for small satellites using magnetometer measurements G. Goracci, F. Curti	AI-Driven robotic assembly and inspection of satellite's platform G. Campolo, L. Petrucci, G. Graglia (Speaker Francesco Corallo)

17.30	18.30	Session: **AI for Autonomous Space Systems – II** Chair: C. Ieracitano, F.C. Morabito, M. Di Clemente	Session: **AI-Based Monitoring, Diagnostics, and Health Management for Space Systems** Chair: R. Furfaro, V. Rodriguez-Fernandez, P. Lanza
17.30	17.45	Robust thruster mapping and modulation for spacecraft control via Reinforcement Learning L. Federici, F. Curti	Fuzzy Deep Learning for integrated structural health monitoring and fault detection in flexible spacecraft G. Ramundo, F. Succetti, A. Rosato, M. Panella, F. Angeletti
17.45	18.00	Autonomous Meta-RL relative state estimation in Cislunar Halo Orbit with metakf E. Violino, A. Scorsoglio, R. Furfaro	Manusat: Onboard edge AI-Driven predictive maintenance of control moment gyroscopes E. Mariotti, G. Furano, A. Zanellini, R. Zanella, M. Violi, F. Aldrigo, R. Rovatti, M. Mangia
18.00	18.15	Image datasets for space applications G. Berardi, P. Lanza	Assessing Deep Learning-Downscaled NGGM and MAGIC data for hydrological extreme event monitoring G. Goracci, I. Daras
18.15	18.30		Integrated supervised and Meta-Reinforcement Learning for scalable Space surveillance and tracking F. Mascellani, A. Mignocchi, R. Furfaro, P. Di Lizia
19.30		**Closing event and Best Oral Presentation Award**	

Wednesday, June 17th, Morning		
Room "Aragonese"		
8.30	9.15	**Plenary Lecture** **From LEO orbits to the Moon: Challenges and opportunities** **W. Villadei –** *Italian Astronaut, Head of RAMI-Houston, USA*
9.30	12.45	Session: **Innovative Experimental and Digital Approaches for Aerospace Structures** Chair: M. Guida
9.30	10.00	**Resilient (airworthy) structures: The importance of teamwork** *University of Naples Federico II*
10.00	10.15	Full-field numerical-experimental correlation of a composite winglet via in-situ point cloud measurement M. Mangone, S. Merola, G. Marulo, M. Oliva, F. Marulo
10.15	10.30	Eulerian video magnification for modal analysis of composite wings: A comparison with conventional experimental techniques G. Magliocco, S. Merola, F. Marulo, M. Guida

10.30	10.45	An integrated digital twin framework for automating aircraft structural inspection via deep learning and 3D visualization S. Merola, M. Guida, F. Marulo
10.45	11.00	Pivotal methodology leveraging the reprocessing of reinforced composites for A/C cabin interiors B. Vitolo, R. Nogarotto
11.00	11.30	**Coffee Break**
11.30	11.45	Experimental assessment of AJP-Based strain sensors on CFRP grid panels under cyclic compression F. Di Caprio, V. Iannone, G. Giusto, F. Galliani, E. Mantini, M. Armiento, S. Perilli, M. Panella, E. Milella
11.45	12.00	Multi-physics spacecraft surface degradation framework for LEO/VLEO environment simulation S. Rea, M. Guida, B.Rievers
12.00	12.15	Low-rate dynamic response of shape-memory carbon fiber composites by autoclave molding D. Noqra, A Proietti, L. Iorio, F. Quadrini, L. Santo
12.15	12.30	Impact localization based on acoustic emission technique through transducer sensing optimization L. Russo, A. Bayoumi, M. Moix-Bonet, P. Wierach, E. Monaco, V. Memmolo
12.30	12.45	Smart composites for space sustainability L. Santo, F. Quadrini
12.45	13.00	Application of RZT-based shell finite element for modal and static analysis of curved and warped multilayered and sandwich structures D. Spinazzola, G. Credo, M. Gherlone
13.00	14.00	**Lunch**
Wednesday, June 17th, Afternoon		
Room "Aragonese"		
14.00	14.30	**Plenary Lecture** **From the Earth to the Moon: the role of polymers** **S. Cantoni** – *CIRA Director, Italy*
14.30	18.15	Session: **Structural Integrity and Performance of Composite and Hybrid Aerospace Structures** Chair: F. Romano
14.30	14.45	Key Note - Transition to Circularity in Aviation Composite Materials: strategies and implementation pathway F. Romano
14.45	15.00	Simulation of solid-propellant engine processes P. Perugini, L. Colella, A. Mataloni, M. Calcagni
15.00	15.15	GNP-doped adhesive for SHM of composite pressure vessels L. Pinello, X. X. F. Sánchez-Romate, M. Giglio, A. Manes, C. Sbarufatti

15.15	15.30	Multiscale analysis of hybrid sandwich structures with lattice core using the refined zigzag theory M. Sorrenti, F. Turon, F. Otero
15.30	15.45	Finite element nanoindentation for inverse determination of orthotropic elastic constants in graphene-oxide reinforced thin film: The role of strain rate dependency D. Angelini, M. Kanerva, E. Cestino, S. Bianco
15.45	16.00	Electromechanical modelling of multifunctional embedded battery structures for cubesat applications E. Cestino, G. Capovilla, F. Valpiani
16.00	16.30	**Coffee Break**
Room "Aragonese"		
16.30	18.00	Session: **Structural Integrity and Performance of Composite and Hybrid Aerospace Structures** Chair: F. Romano
16.30	16.45	Uncertainties effects on a static and dynamic low velocity analytical impact model for composite plates V. Romano, E. Cestino, S. Bianco
16.45	17.00	The role of 3D multifield analysis in the structural integrity and response of multilayered composite structures S. Brischetto, D. Cesare
17.00	17.15	Manufacturing aspects relatively to a composite liquid hydrogen conformable tank (Type V) for aeronautical application R. Acierno, L. Lecce, A. Sollo
17.15	17.30	Advanced carbon-fiber-reinforced polymer component for nose landing gear steering control manufactured via fused deposition modeling A. Cantarutti, S. Paludetti, M. Sortino, E. Vaglio, H. Baid, D. Schiena, M. Arena, M. Martini
17.30	17.45	On the mechanical response of fuselage section with LH2 tank integrated under vertical drop impact conditions A. Magliano, F. Di Caprio, V. De Simone, S. Ameduri, V.P. Berardi, G. Apuleo
17.45	18.00	Trends in materials and manufacturing technologies for helicopters B. Cacchione
18.00	18.15	Structural health monitoring by strain fields evaluation on aerospace structures using digital image correlation E. Monaco, V. Memmolo, L. Esposito, M. Viscardi
19.00		*Nice Dinner* – **Departure from Hotel Hermitage**

Thursday, June 18th, Morning		
Room "Aragonese"		
8.30	10.30	Session: **Crashworthiness and Impact Damage of Additively Manufacture Hybrid Structures** Chair: A. Riccio
8.30	8.45	Fabrication of ABS based nanocomposites filaments loaded with carbonaceous fillers for FDM printing F. Napolitano, A. Zotti, T. Paduano, A. Borriello, S. Zuppolini, M. Zarrelli
8.45	9.00	Performance characteristics of 3D-printed dual-material auxetic composite metamaterials for advanced applications R. Johnston, Z. Kazancı
9.00	9.15	Enhancing wing resistance to bird strikes through additive manufacturing-based structural design V. Acanfora, A. Garofano, M. Battaglia, A. Riccio
9.15	9.30	Impact response of additively manufactured polymer leading-edge structures under bird strike loading A. Garofano, R. De Marco, A. Riccio
9.30	9.45	Numerical investigation of the impact response of an additively manufactured Ti-6Al-4V lattice-based energy absorber A. Sellitto, F. Di Caprio, V. Barbato, A. Riccio
9.45	10.00	Assessment of fatigue-induced delamination onset in stiffened composite panels by fast numerical model A. Russo, R. Castaldo, A. Riccio
10.00	10.15	Structural AI-driven generative design for additive manufacturing of a UAV frame G. Maisto, A. Garofano, V. Acanfora, A. Riccio
10.15	10.30	Design, analysis, and prototyping of additively manufactured prefabricated polymer composite light-duty barracks kits T. Godfrey, K. Sehnawi, A. Chandar, A. Perez
10.30	11.00	**Coffee Break**
11.00	13.30	Session: **Sustainable and Computational Approaches for Advanced Materials in the Automotive Sector** Chair: S. Boria, V. Brunella
11.00	11.15	Sustainable and computational approaches for advanced materials in the automotive sector G. Belingardi
11.15	11.30	Structural health monitoring of composite materials with embedded optical fibres under fatigue loading A. Sepe, R. Ciardiello, C. Boursier Niutta, A. Tridello, D.S. Paolino
11.30	11.45	Recycled polypropylene in the automotive industry: Chemical characterization through raman spectroscopy and chemometric analysis E. Ziliani, A. Damin, E. Alladio, G. Ciaccio, L. Di Lorenzo, P. Russo, J. Passaro, G. Dal Poggetto, V. Brunella
11.45	12.00	A combined experimental and finite element approach to investigate infill strategy effects on the impact behaviour of PLA+flax composites manufactured by FFF I. Papa, M. Panico, M. Capretti, V. Lopresto, S. Boria

12.00	12.15	Mechanical recycling of multi coupled material body seals based on thermoplastic elastomers in the automotive industry F. Cano, G. Brocani, S. Ponti, G. Ciaccio, V. Brunella
12.15	12.30	Conductive polymeric composites based on carbonaceous fillers for integrated metal-free cabling and sensing E. Sarotto, V. Brunella, F. Cesano, A. Veca
12.30	12.45	From sustainable alternative to crashworthy contender: 3D-reinforced flax-fibre composites under dynamic impact E. Mattei, R. Ciardiello, A. Ciampaglia, D. Paolino
12.45	13.00	Agile robotics via advanced auxetic material: High energy absorption for heavy duty application E. Perrinella, V. Pirro, D. Borzacchiello, A. Vitozzi, M. Calcagni
13.00	13.15	Design process of a motorsport energy absorber using flax fiber and hybrid composites M. Capretti, D. Dalli, P. Fernandes, A. Arteiro, S. Boria, V. Castorani
13.15	13.30	Influence of through-thickness material distribution on the bending behaviour of composite automotive pillars under roof crush loading D. D'Agostinis Rinaldi, A. Riccio, A. Faggiani, A. Masini
13.30	14.30	**Lunch**
Thursday, June 18th Afternoon		
14.30	17.45	Session: **Sailing and Marine composites: Design, Technology and Performance in the perspective of the 2027 America's Cup** Chairs: L. Rizzotti, C. Bertorello
14.30	15.00	Key Note - Foiling: Origins and future L. Rizzotti
15.00	15.30	Key Note - Wind giants: The age of mega yachts between steel and carbon C. Bertorello
15.30	15.45	Tailored foam additive manufacturing for highly recyclable lightweight marine structures Andrea L. H. S. Detry (Oniro S.r.l.)
15.45	16.00	Mechanical behaviour of robotically 3D-printed foamed polymer corrugated cores for marine composite sandwich structures G. Palomba, F. Belvisi, M. Parisi, M. Chairi, S. Panfiglio, P. Corigliano, G. Di Bella
16.00	16.15	Foiling (tbd) A. Gloria, R. De Bernardo
16.15	16.45	**Coffee Break**
16.45	17.00	Evaluation of additional assembly forces resulting from curing process-induced prepreg distortions M. Mottola
17.00	17.15	Sensor-based damage monitoring and CT characterization of low-velocity impacted GFRP laminates for digital twin applications A. Astarita, E. Cozzolino, V. Lopresto, M. R. Ricciardi, I. Papa

17.15	17.30	Low-velocity impact response of hybrid sandwich composites with aluminium foam core and bamboo fibre-reinforced bio-based PA11 skins D. Rizzo, F. Di Stefano, I. Papa, E. Linul, P. Russo, G. Epasto
17.30	17.45	Joining recycled carbon fiber nonwoven composites via ultrasonic welding: Thermo-mechanical analysis and validation G. Pagnozzi, F. Fasto, A. Petriccione, G. De Tommaso, A. Pozzi, C. Leone, A. Martone
17.45	18.30	***Interactive Activities and Sponsor Demonstrations***
19.00		***Wine Tour*** **- Departure from Hotel Hermitage**

Friday, June 19st, Morning		
Room "Aragonese"		
8.45	10.30	Round Table: **Carbon Fibre Design Contest** Chair: D. Brigante Panelist: V. Lopresto, D. Savoldi, L. Rizzotti, S. Panfiglio, C. Zazzera, G. Hoffmann, M. Lobasso, A. Squillace
10.30	12.30	Session: **SIMPCO - Sustainable and innovative manufacturing processes for composites** Chair: L. Boccarusso
10.30	10.45	Advances in sustainable composite manufacturing: From natural fibers to recycled materials L. Boccarusso, A. Canneva, M. Durante, V. Lopresto, M. Panico
10.45	11.00	Consolidation of unidirectional thermoplastic matrix composite tapes using continous ultrasonic welding A. A. Vijayakumar, A. Dei Sommi, F. Lionetto, A. Maffezzoli
11.00	11.15	Continuous hemp fiber thermoplastic composites produced via pellet-fed material extrusion technique from PLA microbeads A. Canneva, D. De Fazio, A. LHS Detry, M. Durante, L. Boccarusso
11.15	11.30	Finite element modeling of ductile response and damage in carbon/hemp hybrid composites under tensile and flexural loads M. Bruno, L. Boccarusso, D. De Fazio, M. Durante, L. Esposito
11.30	11.45	On the transition from quasi-static to dynamic regimes in mode II C-ELS testing L.A. Iriarte, E.V. González, N. Blanco, J.M. Guerrero, J.A. Mayugo
11.45	12.00	Mechanical, thermal and fire response of flax-fibre bio-composite laminates for transport interior applications M. Viscardi
12.00	12.15	Non-destructive evaluation of UHTC CMCs: Ultrasonic inspection and X-Ray comparison L. Maio, J. Ball, R. Steadman, J. Binner, M. Comport, C. Hawkins, P. Potluri, P. Withers
12.15	12.30	Recycled and virgin carbon fibre hybrid composites: the effect of stacking sequence on impact properties M. Hutchins, T. Stirling, D. De Fazio, M. Durante, L. Boccarusso, F. Pinto

12.30	13.30	**Structural Integrity & Materials Action Group (SI-MASAG) Meeting** **Round Table: Group Update & Open Discussion on Circularity and Digital Twins** Chair: F. Romano
13.30		**Lunch**
14.30		**Closure of the conference**

Poster Session
Innovative test for measuring the ice adhesion strength of superhydrophobic coatings for aeronautical applications M. Frigione, M. Fanciullo, A. Sarcinella, M. Costantini, G. Bruno, F. Piscitelli
Comparative Life Cycle Assessment of Additively Manufactured polymer composites vs Aluminum components E. Cozzolino, A. Fareed, I.Papa, A. Astarita, V. Lopresto
From injection moulding to 3D printing: Fused Deposition Modeling of PP–Talc composites reinforced with Tetra Pak waste E. Cozzolino, I. Papa, V. Lopresto, C. Cigliano, A. Astarita, V. Lopresto, P. Russo
Impact performance of sustainable hemp/epoxy sandwich panels V. Antonucci, C. Cigliano, V. Lopresto, A. Langella, I. Papa, M. Ricciardi
LCA analysis of polymer tools for sheet metal forming: environmental impact and sustainability P. De Sio, E. Cozzolino, A. Astarita
Drilling-induced damage and bearing response of flax/PP composites M. Panico, A. Canneva, M. Durante, A. Langella, L. Boccarusso
Experimental investigation of Bearing Damage Initiation via Real-Time Shearography in 3D-Printed composite parts V. Pagliarulo, L. Giorleo, I. Papa, A. Silvestri, A. Squillace, M. Paturzo

IMPORTANT NOTES:

All registered participants at DRaF2026 must wear their name badge when attending luncheons, coffee breaks, conference dinner or any official DRaF2026 function and must hand out tickets at the entrance.

All the speakers are asked to upload their presentations on the computer in the room, at least 15 minutes before the start of their session. The speakers can use their own computer.

15 minutes are dedicated to the presentation, included questions. It will be moderated by the Chair of the session. We warmly ask you to be on time.

CONFERENCE SECRETARIAT

Claudio Cigliano
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