

MONDAY, 1 JULY 2024

Venue : Ecole Centrale de Nantes (Buidling A, Amphi A)

08:30:00

17:00:00

08:30 – 9:00 : Registration – Welcome

Constituents

9:00 – 9:45 : Polymers & fibrous reinforcements, Prof. Sébastien Comas, Nantes Université, Centrale Nantes
9:45 – 10:30 : Vegetal fibers, Dr. Alain Bourmaud, Southern Brittany University

10:30 – 11:00 : Coffee break

Processes 1

11:00 – 11:45 : Forming, Prof. Nahiene Hamila, ENI Brest
11:45 – 12:30 : Liquid Composite Molding, Prof. Suresh Advani, University of Delaware

12:30 – 13:30 : Lunch Break

Processes 2

13:30 – 14:15 : Suspensions, Prof. Luisa Silva, Nantes Université, Centrale Nantes
14:15 – 15:00 : Automated Tape Placement, Prof. Steven Le Corre, Nantes Université

15:00 – 15:30 : Coffee break

Durability & behavior in service

15:30 – 16:15 : Thermo-hydro-mechanical coupling, Dr. Maël Peron, Nantes Université
16:15 – 17:00 : Fatigue design, Prof. Patrick Rozycki, Nantes Université, Centrale Nantes

TUESDAY, 2 JULY 2024

Venue : Cité des Congrès de Nantes

SPACE		Room 2000	Auditorium 800	Auditorium 450	Room 300	Room R2	Room 200	Room 150	Club de L'Atlantique	Room GH	Room KL	Room BC	Room I
08:45:00	09:10:00	Opening Session											
09:10:00	09:55:00	Plenary Lecture Sustainability in aerospace composites: how to accelerate ? Caroline PETIOT Airbus, France Christian WEIMER Airbus, Germany											
10:00:00	11:00:00	Durability, ageing, environmental effects - I	Forming & stamping - I	Graphene, graphene-based composites	Full-field methods - I	Autoclave and Out-of-Autoclave	Manufacturing of short & long fiber composites - I	Multifunctional Composites for Energy Applications - I	Continuous-discontinuous fiber-reinforced polymers (CoDiCoFRP) - I	Buckling & stability	Acoustic Emission & ultrasonic method	Maintainance & repair	Machining
11:00:00	11:30:00	Coffee Break & visit of the exhibition											
11:30:00	13:00:00	Multiscale modeling - I	Fatigue - I	Structural health monitoring and control - I	Additive manufacturing - I	Application I	Hybrid composites - I	Composites for Hydrogen Storage - I	Matrix materials: polymers, metals, ceramics, concrete, geopolymer - I	Automated placement technologies - I	Material by design	Energy storage and harvesting - I	Computed tomography - I
13:00:00	14:00:00	Lunch break											
14:00:00	14:30:00	Keynote Lecture Jens Bold Boeing, USA Keynote Lecture Federica Daghia University Paris-Saclay, France Keynote Lecture Alain Bourmaud University South Brittany, France											
14:30:00	16:00:00	Fracture and damage - I	Multiscale modeling - II	Bio-composites - I	Additive manufacturing - II	Application II	Fibers & textiles - I	Aerospace - aeronautics - I	Matrix materials: polymers, metals, ceramics, concrete, geopolymer - II	Automated placement technologies - II	Permeability of fibrous reinforcements for resin flow - I	Bonding and bonding repairs - I	Computed tomography - II
16:00:00	16:30:00	Coffee Break & visit of the exhibition											
16:30:00	18:00	Fracture and damage - II	Multiscale modeling - III	Bio-composites - II	Additive manufacturing - III	Delamination prediction and mitigation in laminated structures	Fibers & textiles - II	Aerospace - aeronautics - II	Matrix materials: polymers, metals, ceramics, concrete, geopolymer - III	Bio-inspired designs	Permeability of fibrous reinforcements for resin flow - II	Bonding and bonding repairs - II	Transition toward high performance plant fibre composite: sourcing, process, applications and bottlenecks
18:00	19:30	Welcome Reception											

WEDNESDAY, 3 JULY 2024

SPACE		Room 2000	Auditorium 800	Auditorium 450	Room 300	Room R2	Room 200	Room 150	Club de L'Atlantique	Room GH	Room KL	Room BC	Room I
08:25:00	09:10:00	Plenary Lecture Biomaterials to bio-composites : What can be the translation from material science to health science. Pr Pierre WEISS Nantes University, France											
09:15:00	10:45:00	Fracture and damage - III	Multiscale modeling - IV	Bio-composites - III	Durability, ageing, environmental effects - II	Reuse, Remanufacturing and Recycling - I	Hybrid composites - II	Composites for Hydrogen Storage - III	Nanocomposites - I	Design of parts - I	Self-healing - I	Integrated testing and modelling of composite structures – towards virtual testing and certification by analysis - I	Data-driven approaches for composite characterization, monitoring, and accelerated development - I
10:45:00	11:15:00	Coffee Break & visit of the exhibition											
11:15:00	12:45:00	Fracture and damage - IV	Multiscale modeling - V	Bio-composites - IV	Durability, ageing, environmental effects - III	Reuse, Remanufacturing and Recycling - II	Hybrid composites - III	Composites for Hydrogen Storage - II	Nanocomposites - II	Design of parts - II	Self-healing - II	Integrated testing and modelling of composite structures – towards virtual testing and certification by analysis - II	Data-driven approaches for composite characterization, monitoring, and accelerated development - II
12:45:00	14:00:00	Lunch break											
14:00:00	14:30:00	Keynote Lecture Ugo Lafont ESA, The Netherlands	Keynote Lecture Martin Fagerström Chalmers University, Sweden	Keynote Lecture Carlos Gonzalez IMDEA, Spain	Keynote Lecture Roberto Frassine EUCIA								
14:30:00	16:00:00	Fracture and damage - V	Fatigue - II	Understanding and improving longitudinal compressive strength - I	Reuse, Remanufacturing and Recycling - III	Process modeling and simulation - I	Fibers & textiles - III	Multifunctional Composites for Energy Applications - II	Micro- and nano-scale test methods	Tests in severe conditions	Welding and bonding	Structural integration of devices	Testing at Cryogenic Temperatures
16:00:00	16:30:00	Coffee Break & visit of the exhibition											
16:30:00	17:30:00	Poster Discussion Session											
17:30:00	19:00:00		ESCM General Assembly										
19:00:00	21:00:00	PhD Event (MAGMAA Food Hall, Nantes)											

THURSDAY, 4 JULY 2024

SPACE		Room 2000	Auditorium 800	Auditorium 450	Room 300	Room R2	Room 200	Room 150	Club de L'Atlantique	Room GH	Room KL	Room BC	Room I
08:25:00	09:10:00	Plenary Lecture Multiscale composite modelling for aircraft engines Florent BOUILLON , Safran Ceramics, France Nicolas FELD , Safran Transmission Systems, France Julien SCHNEIDER-DIE-GROSS , Safran Aircraft Engines, France											
09:15:00	10:45:00	Fracture and damage - VI	Fatigue - III	Understanding and improving longitudinal compressive strength - II	Additive manufacturing - IV	Reuse, Remanufacturing and Recycling - IV	Liquid composite molding - I	Energy storage and harvesting - II	Textile composites - I	Short & long fibre composites - I	Sensing and actuation - I	Interfaces - I	Manufacturing defects in composite materials and structures - I
10:45:00	11:15:00	Coffee Break & visit of the exhibition											
11:15:00	12:45:00	Fracture and damage - VII	Fatigue - IV	Understanding and improving longitudinal compressive strength - III	Additive manufacturing - V	Process modeling and simulation - II	Wet and dry processing I	Energy storage and harvesting - III	Textile composites - II	Short & long fibre composites - II	Sensing and actuation - II	Interfaces - II	Manufacturing defects in composite materials and structures - II
12:45:00	14:00:00	Lunch break											
14:00:00	14:30:00	Keynote Lecture Bodo Fiedler TU Hamburg, Germany	Keynote Lecture Wim Van Paepegem Ghent University, Belgium	Keynote Lecture Michael Wisnom Bristol University, UK									
14:30:00	16:00:00	14:30-15:45 Karl Schulte Session - I	Fatigue - V	Understanding and improving longitudinal compressive strength - IV	Durability, ageing, environmental effects - IV	Reuse, Remanufacturing and Recycling - V	Wet and dry processing II	Sandwich structures - I	Topological optimization	Dynamic - I	Hybrid-Molding Technologies for Thermoplastic Composites - I	Experimental methods for process characterisation - I	Joining & joints
16:00:00	16:30:00	Coffee Break & visit of the exhibition											
16:30:00	18:00:00	16:30-17:30 Karl Schulte Session - II	Fatigue - VI	Understanding and improving longitudinal compressive strength - V	Durability, ageing, environmental effects - V	Reuse, Remanufacturing and Recycling - VI	AI-based methods - I	Sandwich structures - II	Short Fibre Reinforced Polymers	Dynamic - II	Hybrid-Molding Technologies for Thermoplastic Composites - II	Experimental methods for process characterisation - II	Sensing and actuation - III
19:00:00	21:00:00	Gala Evening											

