

HISTRATE TRAINING SCHOOL PROGRAM

NOVEL COMPOSITE MATERIALS FOR IMPACT
AND CRASH SAFETY APPLICATIONS

1ST - 2ND JUNE 2023

Participation to the training school is free of charge. Bursaries for travel and subsistence are available for a limited number of early career researchers. Applications can be addressed to Prof Anisimov (A.G.Anisimov@tudelft.nl). Please, include a short CV highlighting your activities related to HISTRATE. Scientific relevance as well as Cost Action priorities will be taken into consideration for the bursary eligibility.

01

THURSDAY

Impact and Crash Applications of
Composites

Delivered by:
Michele MEO
(Southampton University)
Monica BUZDUGAN
(Vitesco Technologies Engineering)

09:00

Application of Airworthiness
Certification Requirements for
High Strain Loading of
Composite Materials and
Structures

Delivered by:
Radek DUBRAVA
Czech Aerospace Research Centre

10:30



11:30 - 11:45
Coffee Break

Basic Overview of Composite and
Polymer Failures (Delamination,
Debonding, Fracture Toughness)

Delivered by:
Kaleeswaran BALASUBRAMANIAM
(Inner Spec Technologies, Spain)

11:45



13:00 - 14:00
Lunch Break

Fundamentals of High Strain Rate
Behaviour of Polymers and
Composites

Delivered by:
Patricia VERLEYSEN
(University of Ghent)

14:00



15:00 - 15:30
Coffee Break

High Strain Rate of Nano or
Microfilled Polymer, Interleaved
Polymer Based Composites

Delivered by:
Mauro ZARRELLI
(CNR-Research National Council, IPCB-
Institute of Polymers, Composites and
Biomaterials)

15:30

Multiscale Effects of Composite
Material Behaviour

Delivered by:
Thanasis KOTZAKOLIOS
(University of Patras)

16:30



End of Day 1



INTER-UNIVERSITY CENTRE
DUBROVNIK, DON FRANA BULICA 4,
HR-20000, DUBROVNIK, CROATIA

Queries about the training school should be addressed to:
Dr Mauro Zarrelli (mauro.zarrelli@cnr.it) or
Dr Thanasis Kotzakolios (kotzakol@upatras.gr)



Funded by
the European Union

This training school is within the scope of COST Action HISTRATE, CA-21155, supported by COST (European Cooperation in Science and Technology).

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02

FRIDAY

Hybrid Laminates Under High
Strain Rate Loads

Delivered by:
Calvin Rans
John-Alan Pascoe
(TUDELFT)

09:00

High Strain Rate Performance of
Sandwiches & Foams

Delivered by:
Zoran REN
(University of Maribor)

10:00



11:00 - 11:15
Coffee Break

Chemistry Synthesis and
Applications: Polymers and Polymers
Based Composites

Delivered by:
Radmila TOMOVSKA
(University of the Basque Country)

11:15

High Strain Rate Performance of
Carbon, Kevlar, Glass, Basalt,
Natural Fiber Reinforced Polymers

Delivered by:
Hatice SINEM SAS
(Sabanci University)
Volkan ESKIZEYBEK
(18 Mart University)

12:15



13:15 - 14:15
Lunch Break

High Strain-Rate Response of
Additively Manufactured Polymers
and Composites (Lattice, Self
Healing)

Delivered by:
Vassilis KOSTOPOULOS
(University of Patras)
Ivica SMOJVER
(University Of Zagreb)

14:30

Future Trends: New Material, Novel
Configurations and Architectures

Delivered by: TBC

15:30



End of Training School



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