HISTRATE Training School

SIMULATION METHODS AND BEST PRACTICES FOR COMPOSITES UNDER HIGH STRAIN RATES

5TH - 7TH OF MARCH 2024

Participation to the Training School will be free of charge. Registration for participation in person is closed. If you wish to join the event online, please register via our online registration form: <u>https://histrate.eu/registration-training-school/</u> (Please indicate "online participation" in the message box.)



Welcome Introduction on HISTRATE

Delivered by: **Dr. Nenad Djordjevic** Brunel University London

09:00 - 09:15

Introduction on Composites and the Simulation Methods Used for Composites

> Delivered by: **Prof Rade Vignjevic** Brunel University London

09:15 - 10:45

10:45 - 11:15 Coffee Break

Constitutive Models (Online) Constitutive Models for Self-Healing Composites; Case Study: Numerical Verification and High Velocity Impact

> Delivered by: **Prof Ivica Smojver** University of Zagreb

12:15 - 13:00

13:00 - 14:00 Lunch Break



Delivered by: Dr Hatice Sas Sabanci University Istanbul

14:00 - 15:00

TUESDAY

Machine Learning and Artificial Intelligence Applied to Modelling Composites

> Delivered by: **Dr Tijana Geroski** University of Kragujevac

15:00 - 16:00

Lessons Learned Discussion

> Moderated by: TBC

16:00 - 16:30



End of Day 1

Delivered by: **Dr Dayou Ma** Politecnico di Milano

11:15 - 12:15



Queries about the training school should be addressed to: Nenad Djordjevic (nenad.djordjevic@brunel.ac.uk)







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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Spatial Discretisation for Modelling Composites

> Delivered by: Dr Tom De Vuyst University of Hertfordshire

09:00 - 10:45



10:45 - 11:15 Coffee Break

Crash & Impact Modelling of Fibre-Reinforced Materials – From Material Characterization to Predictive Modelling of Components

> Delivered by: Dr Andreas Hornig Dresden University of Technology

11:15 - 13:00

WEDNESDAY

LS Dyna Practical Tutorial Hands On

Delivered by: Dr André Haufe DYNAmore GmbH Dr Nenad Djordjevic Brunel University London

14:00 - 16:00

Lessons Learned Discussion

Moderated by: TBC

16:00 - 16:30



End of Day 2



13:00 - 14:00 Lunch Break



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07

High Velocity Impact on Composites

> Delivered by: Dr Nenad Djordjevic Brunel University London

09:00 - 10:45



10:45 - 11:15 Coffee Break

Introduction to Model Verification and Validation, Standardisation and Certification by Analysis (On-Line)

> Delivered by: Dr Fabio Santandrea RISE - Research Institutes of Sweden -Materials and Production Gothenburg

11:15 - 13:00

THURSDAY

LS Dyna Practical Tutorial Hands On

Delivered by: Dr Andre Haufe DYNAmore GmbH Dr Nenad Djordjevic Brunel University London

14:00 - 16:00

Panel Discussion - Lessons Learned

Chaired by: **Prof Rade Vignjevic** Brunel University London

16:00 - 16:30



End of Day 3





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