

TECHNICAL PROGRAMME OVERVIEW

TUESDAY September 3

11:30-13:30 Registration

13:45-14:00 **Opening Session**

14:00-15:00 **Special Lectures Honoring Prof. Erwin Stein:
Ekkehard Ramm , Peter Wriggers, Herbert Mang, Tom Hughes**

15:00-16:30 **Plenary Session I: Thomas Hughes, Pierre Ladeveze**

16.30-17:00 Coffe break

	Verdi	Vivaldi 1	Vivaldi 2	Rossini 1	Coral	Diamant
17:00-19:00 Technical Sessions	IS-New Approaches for Localization Problems	IS-Theory of Fracture, Crack Propagation Criteria, and Crack Tracking Algorithms	IS-Virtual Element and Related Polygonal Methods for Inelastic Structural Applications	IS-Applications of Computational Methods to Product and Process Design for Industry	IS-Computational Strategies for Metal Cutting & Forming Operations	IS-Multiscale Modeling of Concrete and Concrete Structures
	Rossini 2	Cristal	Tenerife	Laranzore	Orotava	Arona
	IS-Length Scales in Plasticity and Fracture I	IS-Data-Driven Mechanics	IS-Modeling of Plasticity and Damage Under Cyclic Loading	Forming Processes I	Damage, Fracture and Fatigue I	High Velocity Impact

19:30-20:30 Welcome Cocktail

Wednesday September 4

8:00-9:00 Registration

9:00-11:00 **Plenary session II : J. S. Chen, Michel Bellet, Xavier Oliver**

11:00-11:30 Coffe-break

11:30-13:30 Technical Sessions	Verdi	Vivaldi 1	Vivaldi 2	Rossini 1	Coral	Diamant
	IS-Model Order Reduction with Emphasis on Non-linear and Multi-scale Problems I	IS-Computational Strategies for Modelling Material Failure: Enrichment, Regularization, Adaptivity	IS-Advanced Computational Modelling of Wood, Wood-based Products, and Timber Structures I	IS-Multi-scale and Computational Scale Bridging I	IS-Computational Mechanics in the Presence of Uncertainties I	IS-Multi-physics Simulation of Biomechanical Systems I
	Rossini 2	Cristal	Tenerife	Lanzarote	Orotava	Arona
	IS-Length Scales in Plasticity and Fracture II	IS-Dislocation Mechanism Based Crystal Plasticity Theory, Computation and Experiment at Multi Scales I	IS-Limit Analysis and Plastic Collapse I	Forming Processes II	Damage, Fracture and Fatigue II	Advanced Numerical Methods I

13:30-14:30 Lunch Time

14:00-16:30

Plenary session III : Michael Ortiz, Zhuo Zhuang, Ernst Rank

16:30-17:00 Coffe-break

17:00-19:00 Technical Session	Verdi	Vivaldi 1	Vivaldi 2	Rossini 1	Coral	Diamant
	IS-Model Order Reduction with Emphasis on Non-linear and Multi-scale Problems II	IS-Modeling of Structural Impact and Crashworthiness	IS-Advanced Computational Modelling of Wood, Wood-based Products, and Timber Structure II	IS-Multi-scale and Computational Scale Bridging II	IS-Computational Mechanics in the Presence of Uncertainties II	IS-Multi-physics Simulation of Biomechanical Systems II
	Rossini 2	Cristal	Tenerife	Arona	Orotava	
	IS-Length Scales in Plasticity and Fracture III	Additive Manufactured Materials	IS-Limit Analysis and Plastic Collapse II	IS-Evolving Microstructures in Solids	Damage, Fracture and Fatigue III	Composites I

Thursday September 5

8:00-9:00 Registration

9:00-11:00

Plenary session IV : Francisco Pires, Kenjiro Terada, Peter Wriggers

11:00-11:30 coffe-break

	Verdi	Vivaldi 1	Vivaldi 2	Rossini1	Coral	Diamant
11:00-13:30 Technical Sessions	Damage, Fracture and Fatigue IV	IS-Computational Modeling of Material Forming Processes I	IS-Computational Plasticity of Heterogeneous Solids I	IS-Multi-scale and Computational Scale Bridging III	IS-Numerical Modelling of Non-standard Cementitious Materials I	IS-Prediction and Utilization Process-induced Residual Stresses I
	Rossini 2	Cristal	Tenerife	Lanzarote	Orotava	Arona
	IS-Length Scales in Plasticity and Fracture IV	Multi-Scale Materials Models I	Advanced Materials Models I	IS-Meshfree, Particle, and Peridynamic Methods	Geomechanics I	Computational Material Design

13:30-14:30 Luch Time

14:30-16:30 Technical Session	Verdi	Vivaldi 1	Vivaldi 2	Rossini 1	Coral	Diamant
	Damage, Fracture and Fatigue V	IS-Computational Modeling of Material Forming Processes II	IS-Computational Plasticity of Heterogeneous Solids II	Composites II	IS-Numerical Modelling of Non-standard Cementitious Materials II	IS-Prediction and Utilization Process-induced Residual Stresses II
	Rossini 2	Cristal	Tenerife	Lanzarote	Orotava	Arona
	IS-Length Scales in Plasticity and Fracture V	Multi-Scale Materials Models II	Advanced Materials Models II	Biomechanics I	Geomechanics II	Advanced Numerical Methods II

16:30-17:00 Coffe-break

17:00-19:00 Technical Sessions	Verdi	Vivaldi 1	Vivaldi 2	Rossini 1	Rossini 2	Diamant
	Damage, Fracture and Fatigue VI	IS-Computational Modeling of Material Forming Processes III	IS-Computational Plasticity of Heterogeneous Solids III	Multi-Fracturing Solids, Multi-Physics Problems	IS-Isogeometric Methods	Environment and Geosciences
	Coral	Cristal	Tenerife	Lanzarote	Orotava	Arona
	Data Driven Constitutive Models	Multi-Scale Materials Models III	Advanced Materials Models III	Biomechanics II	Contact Problems	

20:30-22:30 Conference Banquet Dinner: Restaurante El Xalet de Montjuic