Monday 18/09/2023

Time	
12:00 – 13:00	Registration
13:00 – 13:30	Opening
13:30 – 14:00 L1	Holm Altenbach, Konstantin Naumenko, Johanna Eisentrager, Katharina Knape **Creep Mechanics - Some Historical Remarks and New Trends**
14:00– 14:30 L2	Eike Blum, Yevgen Kostenko, Konstantin Naumenko **Various state-of-the-art methods for creep evaluation of power plant components in a wide load and temperature range**
14:30 – 15:00 L3	Dmytro Breslavsky and Oksana Tatarinova **Creep and Irradiation Effects in Reactor Vessel Internals**
15:30 –18:30	Come Together

Tuesday 19/09/2023

Time	
9:00 – 9:30 L5	Yuri Kadin and Richard Schake **Modeling of Cyclic Creep in PEEK with the Parallel Rheological Framework**
9:30 – 10:00 L6	Takeshi Iwamoto, Chong Gao, Bo Cao and Tsutomu Umeda **A Consideration of Damage Initiation and Evolution Coupling with Strain-induced Martensitic Transformation During Small Punch Tests of SUS304 at Various Deformation Rate**
10:00 – 10:30 L7	Alexander Dyck, Alexander Kauffmann, Martin Heilmaier and Thomas Böhlke **Efficient Simulation of Creep in Lamellar Structures**
10:30 – 11:00	Coffee-break
11:00 – 11:30 L8	Robert Fleischhauer, Le Zhang and Michael Kaliske **A Temperature Dependent Viscoelastic Approach to the Constitutive Behavior of Semi-crystalline Thermoplastics at Finite Deformations**
11:30 – 12:00 L9	Jörg Hohe and Sascha Fliegener **Anisotropic Creep Analysis of Fiber Reinforced Load Point Support Structures for Thermoplastic Sandwich Panels**
12:00 – 12:30 L10	Claudio Findeisen, Zalikha Murni, Abdul Hamid, Benedikt Rohrmüller, Dominik Spancken, Dominik Laveuve and Jörg Hohe **A Viscoelastic Continuum Damage Model to Model the Creep and Fatigue Failure Behavior of Fiber Reinforced Polymers**
12:30 – 13:00 L11	Oksana Tatarinova, Holm Altenbach and Dmytro Breslavsky **Creep-damage Processes in Cyclic Loaded Double Walled Structures**
13:00 – 14:30	Lunch
14:30 – 15:00 L12	Fabian Welschinger, Argha Protim Dey, Benjamin Schneider, Matti Schneider, Sebastian Gajek and Thomas Bohlke **Deep Material Networks for an Efficient Virtual Characterization of Long-term Creep in Short Fiber-reinforced Polymers**
15:00 – 15:30 L13	Sorin Vlase, M. Katouzian, M. Marin, C. Itu, and A. Toderita **Finite Element Models in the study of Creep Behavior of Carbon-Fiber-Reinforced Composites**
15:30 – 16:00 L14	Bilen Emek Abali **Damage Mechanics in Metamaterials by Using Phase-field Modeling**
16:30 –17:30	City Tour

Wednesday 20/09/2023

Time	
9:00 – 9:30 L15	Kerstin Weinberg and Marcel Fischbach **Effect of Physical Aging on the Flexural Creep in 3D Printed Thermoplastic**
9:30 – 10:00 L16	Yoji Shibutani, Linju Liu, Kazuma Ito, Hideaki Sawada, Masaaki Sugiyama and Naoki Maruyama **Effect of Atomistic Diffused Carbons in Fe-C Alloy to Stress-induced Phase Transformation**
10:00 – 10:30 L17	Seishiro Matsubara, Akira Takashima, So Nagashima, Shohei Ida, Hiro Tanaka, Makoto Uchida and Dai Okumura **Time-swelling Superposition Principle for the Linear Viscoelastic Properties of Polyacrylamide Hydrogels**
10:30 – 11:00	Coffee-break
11:00 – 11:30 L18	Patrick Michels, Christian Dresbach, Esther Ramakers-van Dorp, Holm Altenbach and Olaf Bruch **Application of Nonlinear Viscoelastic Material Models for the Shrinkage and Warpage Analysis of Blow Molded Parts**
11:30 – 12:00 L19	Olivier Castelnau, Patrick Cordier, Karine Gouriet, Timmo Weidner, James van Orman, Jennifer M. Jackson and Philippe Carrez **Periclase Deforms more Slowly than Bridgmanite under Earth Mantle Conditions**
12:30 –19:30	Excursion

Thursday 21/09/2023

Time	
9:00 – 9:30 L20	Ehab Hamed, Sen Zhang, Ali Amin, and Ian R. Gilbert **Effect of Fibres Content on the Creep of Fibre Reinforced Concrete – A Meso-Scale Approach**
9:30 – 10:00 L21	Lukas Richter, Holger Sparr, and Matthias Ziegenhorn **Self-heating Analysis with Respect to Holding Times of an Additive Manufactured Aluminium Alloy**
10:00 – 10:30 L22	Elisabetta Gariboldi, Matteo Molteni, Diego Vargas, and Konstantin Naumenko **Development of a microstructure-based finite element model of thermomechanical response of a fully metallic composite Phase Change Material**
10:30 – 11:00	Coffee-break
11:00 – 11:30 L23	Michael Brünig, Sanjeev Koirala and Steffen Gerke **Analysis of Damage and Fracture in Anisotropic Sheet Metals Based on Biaxial Experiments**
11:30 – 12:00 L24	Romana Schwing, Stefan Linn, Christian Kontermann and Matthias Oechsner **Creep Behavior Under High Temperature Thermal Cycling and Low Mechanical Loadings**
12:00 – 12:30 L25	Guozheng Kang, Yujie Liu, and Qi Li **Experimental Observation and Modelling of Creep-Ratchetting Interaction for the Notched-specimen of Copper**
12:30 – 13:00 L26	Mikhail Guzev, A.M. Golosov, E.P. Riabokon, M.S. Turbakov, E.V. Kozhevnikov, and V.V. Poplygin **The Effect of Dynamic Loads on the Creep of Geomaterials**
13:00 – 14:30	Lunch
15:00 – 15:30 L27	Timm Schultz, Ralf Müller and Angelika Humbert **Simulation of Firn Densification Using a Cell Model Approach**
15:30 – 16:00	Coffee-break
16:00 – 16:30 L28	Hsiao-Wei Lee, Noushad Bin Jamal M, Stanisław Mroziński, Adam Lipski, Michał Piotrowski, and Halina Egner **Modeling Degradation Phenomena in Metals with Unified Mechanics Theory**
16:30 – 17:00 L29	Hideo Hiraguchi

	A Novel Simulation Method for Phase Transition of Single Crystal Ni based Superalloys in Elevated Temperature Creep Regions via Discrete Cosine Transform and Maximum Entropy Method
17:00 – 17:30 L30	Bilal Rafiq, Xuming Zheng, Qiang Xu **The Development and Application of Optimisation Technique for the Calibrating of Creep Cavitation Model Based on Cavity Histogram**
18:00	Banquet

Friday 22/09/2023

Time	
9:00 – 9:30 L31	Dai Okumura, Atsuya Ogino, Seishiro Matsubara, and So Nagashima **Effects of Surface Tension on Crease Nucleation and Evolution in an Elastomer Subjected to Uniaxial, Plane Strain, and Equibiaxial Compressions**
9:30 – 10:00 L32	Jingyu Zhang and Huiling Duan **Modeling of Creep in Nickel-based Superalloys Based on Microtwinning Mechanism**
10:00 – 10:30 L33	Przemysław Nosal and Artur Ganczarski **The Strain Rate Dependent Model Based on Micropolar Theory Implemented in Discrete Element Method**
10:30 – 11:00	Coffee-break
11:00 – 11:30 L34	Mbombo Amejima Okpa, Qiang Xu, Zhongyu Lu **The Development of a Cavitation-Based Model for Creep Lifetime Prediction Using Cu-40Zn-2Pb Material**
11:00 –11:30	Closing