

ICDM₂ GENERAL PROGRAM

WEDNESDAY, JULY 8, 2015			
08:00 - 09:30	Registration & Welcome Coffee (Reception Area)		
09:30 - 10:00	Opening Session (Room: N101)		
10:00 - 10:40	Plenary 1 (Room: N101) J.W. Ju (UCLA, USA) ID 143		
	Room A001	Room A002	Room C001
10:50 - 11:10	ID 8	ID 11	ID 65
11:10 - 11:30	ID 13	ID 100	ID 113
11:30 - 11:50	ID 32	ID 35	ID 117
11:50 - 12:10	ID 61	ID 57	ID 124
12:10 - 12:30	ID 107	ID 37	ID 130
12:30 - 13:45	Lunch		
14:00 - 14:40	Plenary 2: (Room N101) D. Sumarac (FCEB, Serbia) ID 54		
	Room A001	Room A002	Room C001
14:50 - 15:10	ID 16	ID 111	ID 71
15:10 - 15:30	ID 148	ID 63	ID 105
15:30 - 15:50	ID 53	ID 81	ID 137
15:50 - 16:10	ID 122	ID 74	ID 154
16:10 - 16:30	Coffee Break		
	Room A001	Room A002	Room C001
16:30 - 16:50	ID 55	ID 145	ID 41
16:50 - 17:10	ID 103	ID 72	ID 83
17:10 - 17:30	ID 10	ID 56	ID 106
17:30 - 17:50	ID 147	ID 21	ID 162
17:50 - 18:10	ID 151	ID 33	ID 129
18:15-18:45	Meeting of the ICDM directors		
20:00-22:00	Champagne Tasting & Welcome Buffet		

THURSDAY, JULY 9, 2015			
09:00 - 09:40	Plenary 3 (Room: N101) J. M.A. Cesar de Sa (FE-UP, Portugal) ID 123		
	Room A001	Room A002	Room C001
09:50 - 10:10	ID 51	ID 40	ID 30
10:10 - 10:30	ID 141	ID 58	ID 90
10:30 - 10:50	ID 60	ID 59	ID 94
10:50 - 11:10	Coffee Break		
	Room A001	Room A002	Room C001
11:10 - 11:30	ID 131	ID 28	ID 25
11:30 - 11:50	ID 152	ID 64	ID 27
11:50 - 12:10	ID 110	ID 67	ID 163
12:10 - 12:30	ID 108	ID 144	ID 159
12:30 - 13:45	Lunch		
14:00 - 16:00	Mini-symposium in honor of Prof. J.L. Chaboche. "Degradation vs Strengthening: Paradigms in Anisotropic Damage and Curing" Chairman: R. Desmorat (ENS, Cachan, France) Plenary lectures (Room: N101)		
14:00 - 14:15	Special Speech		
14:15 - 14:55	ID 168: P. Steinmann		
14:55 - 15:30	ID 135: F. Laurin et al		
15:30 - 16:00	ID 166: R. Desmorat		
16:00 - 16:30	Coffee Break		
16:30 - 18:45	Mini-symposium in honor of Prof. G.Z. Voyiadjis. "Multiscale Damage Mechanics" Chairman: L. Sun (UCI, USA) Plenary lectures (Room: N101)		
16:30 - 17:15	ID 9: G. Z. Voyiadjis		
17:15 - 17:45	ID 169: J.W. Ju		
17:45 - 18:15	ID 164: P. Kattan		
18:15 - 18:45	ID 87: L. Sun		
20:00-23:00	Banquet + ICDM Trophies for Honored Scientists + Announcement of ICDM3 (2018)		

FRIDAY, JULY 10, 2015				
09:00 - 09:40	Plenary 4 (Room: N101) A. Dragon (ENSMA, France) ID 167			
	Room A001	Room A002	Room C001	Room C002
09:50 - 10:10	ID 38	ID 99	ID 66	ID 88
10:10 - 10:30	ID 92	ID 42	ID 82	ID 120
10:30 - 10:50	ID 116	ID 45	ID 93	ID 36
10:50 - 11:10	Coffee Break			
	Room A001	Room A002	Room C001	Room C002
11:10 - 11:30	ID 140	ID 46	ID 26	ID 118
11:30 - 11:50	ID 139	ID 84	ID 95	ID 48
11:50 - 12:10	ID 155	ID 19	ID 102	ID 68
12:10 - 12:30	ID 133	ID 23	ID 121	ID 73
12:30 - 13:45	Lunch			
14:00 - 14:40	Plenary 5 (Room: N101) M. Brünig (UBM, Germany) ID 20			
	Room A001	Room A002	Room C001	Room C002
14:50 - 15:10	ID 17	ID 91	ID 114	ID 115
15:10 - 15:30	ID 127	ID 34	ID 146	ID 76
15:30 - 15:50	ID 47	ID 75	ID 77	ID 136
15:50 - 16:10	ID 138	ID 80	ID 170	ID 52
16:10-16:30	ID 171	ID 98	ID 101	ID 70
16:30	Coffee Break and Conference Closure			
16:30	Laboratory Visit			

SATURDAY, JULY 11, 2015	
09:00	Free Program -Visit of Troyes -Downtown visit of the factory outlets (sales period)

Theme 1: Theoretical modeling in damage mechanics
Theme 2: Numerical simulation in damage mechanics
Theme 3: Experimentation and engineering application
Plenary Sessions

List of 124 Oral Presentations including 12 Plenary Lectures ordered by ID number

ID	Title	Author(s)	Organization	Country	Theme	Day	Hour	Room
8	Complex Damage Variables in Continuum Damage Mechanics	Voyiadjis, G.Z. Kattan, P.	Louisiana State University	United States	Theme 1: Theoretical modeling in damage mechanics	July 8	10:50 - 11:10	A001
9	Phase Field Based Nonlocal Elasto-Plastic Damage Model	Voyiadjis, G.Z. Mozaffari, N.	Louisiana State University	United States	Plenary Session, MS/Voyiadjis	July 9	16:30 - 17:15	N101
10	Using of anisotropic continuum damage mechanics to describe yield surface distortion	Nayebi, A. Hojjatollah, R.	Shiraz University	Iran	Theme 1: Theoretical modeling in damage mechanics	July 8	17:10 - 17:30	A001
11	Recent Advances in Simulating Failure Evolution with the Material Point Method	Chen, Z. Zhang, X.	Dalian University of Technology / University of Missouri	United States	Theme 2: Numerical Simulation in damage mechanics	July 8	10:50 - 11:10	A002
13	A creep damage model for rock mass based on internal variable theory	Liu, Y. Zhang, L. Yang, Q.	Tsinghua University	China	Theme 1: Theoretical modeling in damage mechanics	July 8	11:10 - 11:30	A001
15	A Simplified Model for Numerical Study of Polyurethane Foaming in Porous Media ==> WITHDRAWN	Sadrhosseini, H Bazkhane, S.	Sharif University of Technology, International Campus	Iran	Theme 1: Theoretical modeling in damage mechanics	July 10	15:30 - 15:50	A001
16	Using Entropy Production Rate as a Metric for a Universal Damage Model	Basaran, C.	State University of New York at Buffalo	United States	Theme 1: Theoretical modeling in damage mechanics	July 8	14:50 - 15:10	A001
17	Phenomenological modelling of impact toughness transition behaviour	Münstermann, S. Kucharczyk, P. Golisch, G. Döbereiner, B.	Forschungszentrum Jülich GMBH	Germany	Theme 1: Theoretical modeling in damage mechanics	July 10	14:50 - 15:10	A001
19	A simple kinematical model of frame-masonry shear-wall systems	Di Nino, S. D'Annibale, F. Luongo, A.	International Research Center on Mathematics and Mechanics of Complex Systems	Italy	Theme 2: Numerical Simulation in damage mechanics	July 10	11:50 - 12:10	A002
20	Modeling of stress-state-dependent damage and failure of ductile metals	Brüning, M. Brenner, D. Gerke, S.	Universität der Bundeswehr München	Germany	Plenary lecture	July 10	14:00 - 14:40	N101
21	A micro-cell size dependent damage law of concrete	Liang, S. Ren, X. Li, J.	Tongji University	China	Theme 2: Numerical Simulation in damage mechanics	July 8	17:50 - 18:10	A002
23	Damage Index Proposals Applied to Quasi-Fragile Materials Simulated Using the Lattice Discrete Element Method	Rodrigues, R. Birck, G. Iturrioz, I. Avila, L.R.	Ufrgs	Argentina	Theme 2: Numerical Simulation in damage mechanics	July 10	12:10 - 12:30	A002
25	On the role of in-plane damage mechanisms on the macroscopic behavior of SiC/SiC composites from complementary 2D and 3D in-situ investigations	CHEN, Y. BERNACHY-BARBE, F. GELEBART, L. BORNERT, M. CHÂTEAU, C. KING, A. SAUDER, C.	CEA	France	Theme 3: Experimentation and engineering application	July 9	11:10 - 11:30	C001

26	Experimental Verification of a Thermodynamic Fatigue Life Prediction Model	Fogang, T.A.T. Basaran, C.	Department of Mechanical and Aerospace Engineering, State University of New York at Buffalo	United States	Theme 3: Experimentation and engineering application	July 10	11:10 - 11:30	C001
27	A macroscopic modeling of SiC/SiC composites derived from experimental micromechanics	BERNACHY-BARBE, F. GELEBART, L. BORNERT, M. CREPIN, J. SAUDER, C.	CEA	France	Theme 3: Experimentation and engineering application	July 9	11:30 - 11:50	C001
28	Different Numerical Time Integration Schemes for Elastoplasticity Coupled to Anisotropic Damage	Fassin, M. Wulfinghoff, S. Reese, S.	Institute of Applied Mechanics	Germany	Theme 2: Numerical Simulation in damage mechanics	July 9	11:10 - 11:30	A002
30	Influence of residual stresses on the damage of composite laminates under tensile loading	Wen, Z. Gong, X.L.	Université de Technologie de Troyes	France	Theme 3: Experimentation and engineering application	July 9	09:50 - 10:10	C001
32	Radiation induced damage in ductile materials subjected to time-dependent stresses	Skoczen, B. Ustrzycka, A.	Cracow University of Technology, Institute of Applied Mechanics	Poland	Theme 1: Theoretical modeling in damage mechanics	July 8	11:30 - 11:50	A001
33	Chemistry of crack initiation in amorphous silicon	Tabatabaei, M. Shodja, H.	Sharif University of Technology	Iran	Theme 2: Numerical Simulation in damage mechanics	July 8	16:50 - 17:10	A002
34	Damage Accumulation and Fracture of Weld Joints under Low- Cyclic Loading Conditions	Kornev, V.M.	Lavrentyev Institute of Hydrodynamics SB RAS	Russian Federation	Theme 3: Experimentation and engineering application	July 10	15:10 - 15:30	A002
35	FAILURE SURFACE VARIATION OBTAINED WITH THE TRUSS-LIKE DISCRETE ELEMENT METHOD	Silva, G.S.D. Fernandes, F.G. Colpo, A.B. Puglia, V.B. Kosteski, L.E.		Brazil	Theme 2: Numerical Simulation in damage mechanics	July 8	11:30 - 11:50	A002
36	High cycle fatigue (HCF) model for unreinforced and reinforced thermoplastic polymers	KRAIRI, A. DOGHRI, I GUDIMETLA, M.	Université Catholique de Louvain	Belgium	Theme 1: Theoretical modeling in damage mechanics	July 10	10:30 - 10:50	C002
37	Micromechanical damage simulation to obtain effect of coarse grains distribution on mechanical properties of bimodal AL using 2D XFEM	Hosseini-Toudeshky, H. Jamalian, M.	Amirkabir University of Technology	Iran	Theme 2: Numerical Simulation in damage mechanics	July 8	11:50 - 12:10	A002
38	Damage Theory Based Fatigue Simulation of Concrete Structure	Liang, J. Li, J.	Department of Structural Engineering, College of Civil Engineering, Tongji University	China	Theme 1: Theoretical modeling in damage mechanics	July 10	09:50 - 10:10	A001
40	Mathematical and numerical modelling of large axisymmetric creep strains and damage	Szuwalski, K. Ustrzycka, A.	Cracow University of Technology, Institute of Applied Mechanics	Poland	Theme 2: Numerical Simulation in damage mechanics	July 9	09:50 - 10:10	A002
41	Effect of crack closure parameter and negative triaxiality on damage growth in upsetting problem	Kumar, M. Dixit, P.M.	Indian Institute of Technology Kanpur	India	Theme 3: Experimentation and engineering application	July 8	16:30 - 16:50	C001
42	A dynamic damage law with internal length to model localized failure	Keita, O. FRANCOIS, B.	Université Libre de Bruxelles	Belgium	Theme 2: Numerical Simulation in damage mechanics	July 10	10:10 - 10:30	A002

45	Numerical modeling of crack growth in interpenetrating metal-ceramic composites	Poniżnik, Z. Nowak, Z. Basista, M.	Institute of Fundamental Technological Research, Polish Academy of Sciences	Poland	Theme 2: Numerical Simulation in damage mechanics	July 10	10:30 - 10:50	A002
46	MULTISCALE MODELING OF DAMAGE AND FAILURE IN A BIOLOGICAL HIERARCHICAL MATERIAL	Scheider, I. Xiao, T. Yilmaz, E. Schneider, G.A. Huber, N. Bargmann, S.	Institute of Materials Research, Helmholtz-Zentrum Geesthacht, Material Mechanics	Germany	Theme 2: Numerical Simulation in damage mechanics	July 10	11:10 - 11:30	A002
47	Effect of the manufacturing parameters on the defects in the open cell aluminum foam	Zhu, F. Poulet, J. He, S. Gong, X.L.	University of Technology of Troyes	France	Theme 1: Theoretical modeling in damage mechanics	July 10	15:50 - 16:10	A001
48	Experimental study and multi-scales modeling of mechanical behavior of polycrystalline materials during ductile damage	Zhao, Y. Le Joncour, L. Baczmański, A. François, M. Panicaud, B. Wroński, S. Gadalińska, E. Braham, C. Buslaps, T.	Université de Technologie de Troyes	France	Theme 3: Experimentation and engineering application	July 10	11:30 - 11:50	C002
51	Stability Analysis of Wave Propagation in Softening Solids	Ren, X. Li, J.	Tongji University	China	Theme 1: Theoretical modeling in damage mechanics	July 9	09:50 - 10:10	A001
52	Numerical Simulation of Failure Process in FRP Concrete Structures	Mazzucco, G. Pellegrino, C. Majorana, C. Salomoni, V.	University of Padua	Italy	Theme 3: Experimentation and engineering application	July 10	15:50 - 16:10	C002
53	On the use of the generalized eigenstrain method in the modeling of coupling between damage and corrosion	Panicaud, B.	UTT	France	Theme 1: Theoretical modeling in damage mechanics	July 8	15:30 - 15:50	A001
54	ELASTOPLASTIC AND DAMAGE ANALYSIS OF TRUSSES SUBJECTED TO CYCLIC LOADING	Šumarac, D. Perović, Z.	Faculty of Civil Engineering	Serbia	Plenary lecture	July 8	14:00 - 14:40	N101
55	ON ELASTICITY TENSOR OF ANISOTROPIC DAMAGE MECHANICS	Jarić, J. Kuzmanović, D. Šumarac, D.	Faculty of Mathematics, University of Belgrade	Serbia	Theme 1: Theoretical modeling in damage mechanics	July 8	16:30 - 16:50	A001
56	Heterogeneous Lattice Model Based Simulation of Concrete under Uniaxial Loading	Yan, X. Li, J. Ren, X		China	Theme 2: Numerical Simulation in damage mechanics	July 8	17:30 - 17:50	A002
57	Impact Failure analysis of RC beam using SPH method based on damage theory	Sonoda, Y.	Kyushu University	Japan	Theme 2: Numerical Simulation in damage mechanics	July 8	12:10 - 12:30	A002
58	Coupled damage-plasticity modelling of ductile failure in an aluminium alloy	Nguyen, G.D. Korsunsky, A.M. Belnoue, J.	MBLEM, Department of Engineering Science, University of Oxford	United Kingdom	Theme 2: Numerical Simulation in damage mechanics	July 9	10:10 - 10:30	A002

59	Recent Developments in Modeling of Progressive Damage in Fiber-Reinforced Composites	Chen, B.Y. Tay, T.E.	National University of Singapore	Singapore	Theme 2: Numerical Simulation in damage mechanics	July 9	10:30 - 10:50	A002
60	Elastostatic fields of an embedded circular rigid nano/micro-fiber with interfacial damage in anti-plane couple stress elasticity	Hashemian, B. Shodja, H.M. Goodarzi, A.	Sharif University of Technology	Iran	Theme 1: Theoretical modeling in damage mechanics	July 9	10:30 - 10:50	A001
61	Multi-phase modelling of concrete affected by sulfate attack	Cefis, N. Comi, C.	Politecnico di Milano	Italy	Theme 1: Theoretical modeling in damage mechanics	July 8	11:50 - 12:10	A001
63	Adaptive zooming method for the simulation of quasi-brittle materials	Llau, A. Jason, L. Baroth, J. Dufour, F.	CEA, DEN/DANS/DM2S/SEMT/LM2S, 91191 Gif sur Yvette	France	Theme 2: Numerical Simulation in damage mechanics	July 8	15:10 - 15:30	A002
64	Comparison of Two Time-Integration Algorithms for an Anisotropic Damage Model Coupled With Plasticity	Wulfinghoff, S. Fassin, M. Reese, S.	RWTH Aachen	Germany	Theme 2: Numerical Simulation in damage mechanics	July 9	11:30 - 11:50	A002
65	Using Acoustic Emission Monitoring to Observe the De-bonding Behavior of Rebar in Cyclic Pull-Out Tests	Pei, K.C. Kan, Y.C.	Institute of Nuclear Energy Research (INER)	Taiwan	Theme 3: Experimentation and engineering application	July 8	10:50 - 11:10	C001
66	Parameter identification of a damage model for the lifetime prediction of adhesively bonded joints	Kroll, U. Matzenmiller, A.	University of Kassel	Germany	Theme 3: Experimentation and engineering application	July 10	09:50 - 10:10	C001
67	Prediction of low cycle fatigue life using cycles jumping integration scheme	Labergere, C. Saanouni, K. Sun, Z. Dhifallah M.A. Li, Y. Duval, J.L.	UTT, ICD/LASMIS UMR CNRS 6281	France	Theme 2: Numerical Simulation in damage mechanics	July 9	11:50 - 12:10	A002
68	Analysis and modeling of carbonitrided steel components fracture process	Karolak, C. Bouchard, P.O. Montmitonnet, P. Delattre, G. Parks, D.	Mines Paristech, PSL Research University, CEMEF	France	Theme 3: Experimentation and engineering application	July 10	11:50 - 12:10	C002
70	PCM inclusions in concrete materials for thermal storage problems	Xotta, G. Mazzucco, G. Majorana, C. Salomoni, V. Giannuzzi, M. Miliozzi, A.	University of Padua	Italy	Theme 3: Experimentation and engineering application	July 10	16:10 - 16:30	C002
71	Fatigue analysis in adhesive joints	Martinez, J.F.T. Rodriguez, J.P.C. Prieto, P.A.	Universidad de los Andes	Colombia	Theme 3: Experimentation and engineering application	July 8	14:50 - 15:10	C001
72	Numerical simulation based on mixed MESHLESS/MEF formulation. Application to solid mechanics with ductile damage.	LABERGERE, C. GHOZZI, Y VILLON, P SAANOUNI, K	UTT, ICD/LASMIS UMR CNRS 6281	France	Theme 2: Numerical Simulation in damage mechanics	July 8	17:10 - 17:30	A002
73	Experimental identification of damage mechanism in metallic materials used for particle accelerators	Tabin, J. Skoczeń, B.	Institute of Applied Mechanics, Cracow University of Technology	Poland	Theme 3: Experimentation and engineering application	July 10	12:10 - 12:30	C002

74	Nonlocal Continuum Damage Mechanics approach of a discrete axial chain under non-uniform axial load	Herisson, B. Picandet, V. Challamel, N. Perrot, A.	Université de Bretagne Sud	France	Theme 2: Numerical Simulation in damage mechanics	July 8	15:50 - 16:10	A002
75	A study on the collapse mechanism of high strength concrete columns apply to fiber-cocktail	Kwon, K.S. Kim, H.Y. Chae, S.U. Cho, B.Y.	Fire Research center, KOREA INSTITUTE of CIVIL ENGINEERING and BUILDING TECHNOLOGY	Korea, Republic Of	Theme 3: Experimentation and engineering application	July 10	15:30 - 15:50	A002
76	Experimental study on horizontal shear crack control of prestressed corrugated composite beams	Chae, S.U. Cho, B.Y. Kweon, O.S. Kim, H.Y.	Fire Research center, KOREA INSTITUTE of CIVIL ENGINEERING and BUILDING TECHNOLOGY	Korea, Republic Of	Theme 3: Experimentation and engineering application	July 10	15:10 - 15:30	C002
77	A Study on the Microstructure of Welded Structural Steel Members at High Temperature	Cho, B.Y. Kim, H.Y. Yang, S.C. Chae, S.U.	Fire Research center, KOREA INSTITUTE of CIVIL ENGINEERING and BUILDING TECHNOLOGY	Korea, Republic Of	Theme 3: Experimentation and engineering application	July 10	15:30 - 15:50	C001
80	Effects of sandblasting on surface morphology and contact properties	ZHAI, C. GAN, Y. Hanaor, D.	The University of Sydney	Australia	Theme 3: Experimentation and engineering application	July 10	15:50 - 16:10	A002
81	Methods for Damage Analysis of Steel Structures	Heinrich, S. Kowalsky, U. Dinkler, D.	Institute for Structural Analysis	Germany	Theme 2: Numerical Simulation in damage mechanics	July 8	15:30 - 15:50	A002
82	Influence of the stress state on the predictability of the failure probability in the Beremin model	Golisch, G. Münstermann, S. Bleck, B.	RWTH Aachen University	Germany	Theme 3: Experimentation and engineering application	July 10	10:10 - 10:30	C001
83	Modelling of chip breakage in machining process with damage mechanics model	Wu, B. Yan, Y. Münstermann, S.	RWTH Aachen University	Germany	Theme 3: Experimentation and engineering application	July 8	16:50 - 17:10	C001
84	Modelling of damage and failure in High Mn TWIP Steels	Madivala, M. Bleck, W. Prahl, U.	Steel Institute, RWTH Aachen University	Germany	Theme 2: Numerical Simulation in damage mechanics	July 10	11:30 - 11:50	A002
87	Interfacial Debonding and Viscoelastic Behavior of Magnetorheological Nanocomposites	Damiani, R. Sun, L.	UCI	United States	Plenary Session, MS/Voyiadjis	July 9	18:15 - 18:45	N101
88	Analysis of casting materials under thermal fatigue	Altenbach, H. Längler, F. Naumenko, K. Ievdokymov, M	Otto-von-Guericke-Universität Magdeburg	Germany	Theme 1: Theoretical modeling in damage mechanics	July 10	09:50 - 10:10	C002
90	FE analysis of flexural behavior of externally bonded CFRP reinforced timber beams	KHELIFA, M. THI, V.D.	University of Lorraine	France	Theme 3: Experimentation and engineering application	July 9	10:10 - 10:30	C001
91	Damage evolution in a circular bar undergoing phase transformation induced by torsion at cryogenic conditions	Ortwein, R. Skoczeń, B.	Cracow University of Technology	Poland	Theme 3: Experimentation and engineering application	July 10	14:50 - 15:10	A002

92	Numerical analysis of laminated veneer lumber panels in fire	THI, V.D. KHELIFA, M. EL GANAOU, M. ROGAUME, Y.	University of Lorraine	France	Theme 1: Theoretical modeling in damage mechanics	July 10	10:10 - 10:30	A001
93	Development of unified viscoplastic-damage model for crashworthiness analysis of boron steel safety components with tailored microstructures	Li, N. Lin, J. Dean, T.	Department of Mechanical Engineering, Imperial College London	United Kingdom	Theme 3: Experimentation and engineering application	July 10	10:30 - 10:50	C001
94	Validation of micro-meso electrical relations for laminates with varying anisotropy	Selvakumaran, L. Lubineau, G.	COHMAS / PSE DIVISION / KAUST	Saudi Arabia	Theme 3: Experimentation and engineering application	July 9	10:30 - 10:50	C001
95	Probabilistic weibull methodology for fracture prediction of brittle and ductile materials	Muñiz-Calvente, M. Fernández-Canteli, A. Shlyannikov, V. Castillo, E.	Dep. of Construction and Manufacturing Engineering University of Oviedo	Spain	Theme 3: Experimentation and engineering application	July 10	11:30 - 11:50	C001
98	Damage and low-cycle fatigue of the structural materials under program loading	Boby, M. Khalimon, O.	National Technical University of Ukraine "Kyiv Polytechnic Institute"	Ukraine	Theme 3: Experimentation and engineering application	July 10	16:10 - 16:30	A002
99	On thermodynamics for meso-mechanically informed damage-healing-plasticity of granular media	Li, X. Du, Y. Duan, Q. Woody Ju, J.	Dalian University of Technology	China	Theme 2: Numerical Simulation in damage mechanics	July 10	09:50 - 10:10	A002
100	Multiresolution Fatigue Damage Analysis	Chow, C.L. Shen, J. Chen, H.	University of Michigan--Dearborn	United States	Theme 2: Numerical Simulation in damage mechanics	July 8	11:10 - 11:30	A002
101	Assessment of creep damage in Cr-Mo ferritic steels under multiaxial state of stress	Goyal, S. Laha, K. Bhaduri, A.K.	Indira Gandhi Centre for Atomic Research, Kalpakkam	India	Theme 3: Experimentation and engineering application	July 10	16:10 - 16:30	C001
102	Comparison of conventional mechanical testing with innovative techniques for determination of mechanical properties of nuclear power plant components materials	Stefan, J. Kopřiva, R. Eliášová, I. Siegl, J.	UJV Rez, a. s	Czech Republic	Theme 3: Experimentation and engineering application	July 10	11:50 - 12:10	C001
103	Brittle damage in initially anisotropic materials: a model accounting for the induced anisotropy and unilateral effects	Welemene, H. Goidescu, C. Kondo, D. Pantalé, O. Karama, M.	Université de Toulouse; INP/ENIT	France	Theme 1: Theoretical modeling in damage mechanics	July 8	16:50 - 17:10	A001
105	Failure mechanisms in high strength steel under impact loading: from ASB to full fracture	Roux, E. Longère, P. Cherrier, O. Millot, T. Capdeville, D. Petit, J.	Université de Toulouse, Institut Supérieur de l'Aéronautique et de l'Espace (ISAE), Institut Clément Ader (ICA EA 814), Toulouse, France	France	Theme 3: Experimentation and engineering application	July 8	15:10 - 15:30	C001

106	Strain-based continuum damage mechanics model for predicting FLC of AA5754 under warm forming conditions	Mohamed, M. Shi, Z. Lin, J. Dean, T. Dear, J	Imperial College London	United Kingdom	Theme 3: Experimentation and engineering application	July 8	17:10 - 17:30	C001
107	Cohesive Zone Damage-Healing Model for Self-Healing Materials	Abu Al-Rub, R.K. Alsheghri, A.	Masdar Institute of Science and Technology	United Arab Emirates	Theme 1: Theoretical modeling in damage mechanics	July 8	12:10 - 12:30	A001
108	Microstructural Modeling of Dual Phase Steel using a Higher-Order Gradient Plasticity-Damage Model	Abu Al-Rub, R.K. Abid, N.H. Ettehad, M. Palazotto, A.N.	Masdar Institute of Science and Technology	United Arab Emirates	Theme 1: Theoretical modeling in damage mechanics	July 9	11:50 - 12:10	A001
110	Micromechanics-based non-local damage model with gradient of strain	Oliver-Leblond, C. Dumontet, H. Kondo, D.	Université Pierre et Marie Curie	France	Theme 1: Theoretical modeling in damage mechanics	July 9	11:30 - 11:50	A001
111	From damage to fracture a modelisation based on moving discontinuities and layers	Stolz, C.	CNRS UMR 6183, UMR 8193	France	Theme 2: Numerical Simulation in damage mechanics	July 8	14:50 - 15:10	A002
113	Statistical laws of dynamic fragmentation of ZrO ₂ ceramics.	Davydova, M. Uvarov, S. Chudinov, V	Institute of Continuous Media Mechanics UB RAS	Russian Federation	Theme 3: Experimentation and engineering application	July 8	11:10 - 11:30	C001
114	Environment Effects on Thermal Fatigue Damage of "AISI H11" Hot Work Tool Steel	SALEM, M. LE ROUX, S. REZAI-ARIA, F.	ICAA-Mines Albi	France	Theme 3: Experimentation and engineering application	July 10	14:50 - 15:10	C001
115	A coupled thermomechanical simulation of the failure of thermal barrier coatings of turbine blades	Rakotomalala, N. Feyel, F. Roos, A.	Safran CRT	France	Theme 3: Experimentation and engineering application	July 10	14:50 - 15:10	C002
116	Comparison of crack-width prediction models for steel-reinforced concrete structures	Tran, H. Li, C.Q. Setunge, S.	School of Civil, Environmental and Chemical Engineering, RMIT University, Australia	Australia	Theme 1: Theoretical modeling in damage mechanics	July 10	10:30 - 10:50	A001
117	In-situ dynamic experiments and modeling in multiscale kinetics of damage-failure transition	Naimark, O.	Institute of Continuous Media Mechanics of Russian Academy of Sciences	Russian Federation	Theme 3: Experimentation and engineering application	July 8	11:30 - 11:50	C001
118	Application of a Local Continuum Damage Model to Porous TRIP-Steel	Seupel, A. Kuna, M.	Institute of Mechanics and Fluid Dynamics, TU Bergakademie Freiberg	Germany	Theme 3: Experimentation and engineering application	July 10	11:10 - 11:30	C002
120	Approximate yield criterion for porous cubic and hexagonal single crystals	Paux, J. Brenner, R. Kondo, D.	Institut Jean Le Rond D'alembert upmc	France	Theme 1: Theoretical modeling in damage mechanics	July 10	10:10 - 10:30	C002
121	On the Failure Mechanisms in Reactor Pressure Vessel with Austenitic Cladding	Stefan, J. Siegl, J. Kytka, M. Brumovsky, M.	UJV Rez plc	Czech Republic	Theme 3: Experimentation and engineering application	July 10	12:10 - 12:30	C001
122	THERMODYNAMIC MODELING OF DAMAGE IN TWO-PHASE MATERIALS	Egner, H. Ryś, M.	Institute of Applied Mechanics, Cracow University of Technology	Poland	Theme 1: Theoretical modeling in damage mechanics	July 8	15:50 - 16:10	A001

123	A GTN model for high and low triaxiality stress states	Malcher, L. Pires, F. Cesar de Sa, J.	INEGI – Institute of Mechanical Engineering and Industrial Management, Faculty of	Portugal	Plenary lecture	July 9	09:00 - 09:40	N101
124	Evaluation of cumulative damage of RC members under repeated impact loading	Tamai, H. Sonoda, Y.	Kyushu University	Japan	Theme 3: Experimentation and engineering application	July 8	11:50 - 12:10	C001
127	A simplified hybrid approach for damage and failure predictions in composite plates with large cuts	JULIEN, C. HUCHETTE, C. LAURIN, F	ONERA	France	Theme 1: Theoretical modeling in damage mechanics	July 10	15:10 - 15:30	A001
129	Effect of freeze-thaw cycles on mechanical behaviors of ceramist concrete under impact loading	Chen, J. Qiu, X. Shi, G. Chen, B.	Faculty of Mechanical Engineering and Mechanics, Ningbo University	China	Theme 3: Experimentation and engineering application	July 8	17:50 - 18:10	C001
130	Influence of specimen geometry on strain localization phenomena in steel sheets	Bao, C. Francois, M. Le Joncour, L	Universite de Technologie de Troyes	France	Theme 3: Experimentation and engineering application	July 8	12:10 - 12:30	C001
131	The micromorphic approach to gradient plasticity and damage with appliation to crack propagation in single crystals	Forest, S.	Mines ParisTech CNRS	France	Theme 1: Theoretical modeling in damage mechanics	July 9	11:10 - 11:30	A001
133	Constitutive model for timber fracture under tensile and shear loads	Smidova, E. Kabele, P.	Czech Technical University in Prague	Czech Republic	Theme 1: Theoretical modeling in damage mechanics	July 10	12:10 - 12:30	A001
135	From JL Chaboche damage models to ODM models for CMC and their validation	Laurin, F. Kaminski, M. Bouillon, F. Maire, J.F.	ONERA, the french aerospace lab	France	Plenary Session, MS/Chaboche	July 9	14:55 - 15:30	N101
136	Optimization of reinforcement for RC walls with introduction of a seismic accelerogram	BELAIDI, O. KHEDDACHE, L. OULD OUALI, M. HANNACHI, N.E.	Laboratoire Elaboration et Caractérisation des Matériaux et Modélisation – LEC2M	Algeria	Theme 3: Experimentation and engineering application	July 10	15:30 - 15:50	C002
137	Controlled damages in electrodes: A novel technology of thermal runaway mitigation	Qiao, Y. Wang, M. Le, A.V.	University of California, San Diego	United States	Theme 3: Experimentation and engineering application	July 8	15:30 - 15:50	C001
138	The covariance principle and a 4D formalism for rate formulations of constitutive models	Wang, M. Panicaud, B. Rouhaud, E.	UTT	France	Theme 1: Theoretical modeling in damage mechanics	July 10	16:10 - 16:30	A001
139	Numerical implementation and application of an extended Gurson model for nanoporous materials	Morin, L. Kondo, D. Leblond, J.B.	Institut Jean Le Rond d'Alembert	France	Theme 1: Theoretical modeling in damage mechanics	July 10	11:30 - 11:50	A001
140	A ductile damage model for porous materials with non-associated Drucker-Prager matrix	Cheng, L. Yun, J. Oueslati, A. Saxce, G. D. Kondo, D.	UPMC, Institut Jean Le Rond D'Alembert	France	Theme 1: Theoretical modeling in damage mechanics	July 10	11:10 - 11:30	A001
141	Generic delocalization of a local damage model using the Thick Level Set approach and comparison with other methods	Cazes, F. Moës, N.	GeM	France	Theme 1: Theoretical modeling in damage mechanics	July 9	10:10 - 10:30	A001

143	Mechanical Properties of Innovative Pothole Patching Materials Featuring High-Toughness Low-Viscosity Nano-Molecular Resins	Woody Ju, J.W. Yuan, K.Y. (Matt)	UCLA	United States	Plenary lecture	July 8	10:00 - 10:40	N101
144	Fast Plastic Integration Algorithm for Damage Prediction in Forming Process Simulations	Halouani, A. Li, Y. Abbes, B. Guo, Y.Q.	GRESPI/MPSE, University of Reims	France	Theme 2: Numerical Simulation in damage mechanics	July 9	12:10 - 12:30	A002
145	Stochastic Continuum Damage Mechanics using Spring Lattice Models	Kale, S. Koric, S. Ostoja-Starzewski, M.	University of Illinois at Urbana-Champaign	United States	Theme 2: Numerical Simulation in damage mechanics	July 8	16:30 - 16:50	A002
146	Ductile failure of Nuclear steel accounting for strain ageing	Ren, S. Maziere, M. Forest, S. Morgeneyer, T. Gilles Rousselier	Mines ParisTech	France	Theme 3: Experimentation and engineering application	July 10	15:10 - 15:30	C001
147	Anisotropic ductile fracture behavior of an aluminum alloy	Lou, Y. Chen, L. Clausmeyer, T. Ortel, T.R. Chen, H. Tekkaya, E.	Institute of Forming Technology and Lightweight Construction, TU Dortmund	Germany	Theme 1: Theoretical modeling in damage mechanics	July 8	17:30 - 17:50	A001
148	Asymptotic self-similar solution of the creep crack problems in damaged materials under mixed mode loading	Stepanova, L. Yakovleva, E. Mironova, E.	Samara State University	Russian Federation	Theme 1: Theoretical modeling in damage mechanics	July 8	15:10 - 15:30	A001
151	Advanced anisotropic damage model fully coupled with anisotropic plasticity	Badreddine, H. Saouni, K.	UTT	France	Theme 1: Theoretical modeling in damage mechanics	July 8	17:50 - 18:10	A001
152	A Nonlocal Extension of an Anisotropic Continuum Damage Mechanics Model	Soyarslan, C. Gülçimen, B. Bargmann, S.	Institute of Continuum Mechanics and Material Mechanics, Hamburg University of Technology, 21073 Hamburg, Germany	Germany	Theme 1: Theoretical modeling in damage mechanics	July 9	12:10 - 12:30	A001
154	A statistical/computational/experimental approach to study the microstructural morphology of damage	Du, C. Geus, T.D. Hoefnagels, J. Peerlings, R. Geers, M.	TU Eindhoven	Netherlands	Theme 3: Experimentation and engineering application	July 8	15:50 - 16:10	C001
155	ON THE COUPLING OF DUCTILE DAMAGE WITH DISTORTION OF YIELD SURFACE FOR SHEET METAL FORMING	BADREDDINE, H. YUE, Z. SAANOUNI, K.	University of Technology of Troyes	France	Theme 1: Theoretical modeling in damage mechanics	July 10	11:50 - 12:10	A001
159	Failure prediction on the second Sandia Fracture Challenge based on a cohesive zone model	Chiaruttini, V. Maziere, M. Feld-Payet, S. Yastrebov, V. Besson, J. Chaboche, J.L.	Onera	France	Theme 3: Experimentation and engineering application	July 9	12:10 - 12:30	C001

162	Ductile fracture and the validity of uncoupled ductile fracture criteria in micro-scaled plastic deformation	Fu, M.	The Hong Kong Polytechnic University	Hong Kong	Theme 3: Experimentation and engineering application	July 8	17:30 - 17:50	C001
163	Microstructural characteristics of geopolymers affecting damage and fracture mechanisms: An overview	Kim, E. Yang, B.J. Lee, H.K.	Korea Advanced Institute of Science and Technology	Korea, Republic Of	Theme 3: Experimentation and engineering application	July 9	11:50 - 12:10	C001
164	New Concepts in Continuum Damage Mechanics	Voyiadjis, G.Z. Kattan, P.	Independent Researcher	Jordan	Plenary Session, MS/Voyiadjis	July 9	17:45 - 18:15	N101
166	Second order anisotropic damage framework: from theory to applications	Desmorat, R.	LMT-Cachan	France	Plenary Session, MS/Chaboche	July 9	15:30 - 16:00	N101
167	Enlarged finite strain modeling incorporating Adiabatic Shear Banding and post-localization microvoiding as shear failure mechanisms	DRAGON, A. LONGERE, P.	Institut Pprime (UPR CNRS 3346), ISAE-ENSMA, BP 40109, F-86961 Futuroscope-Chasseneuil	France	Plenary lecture	July 10	09:00 - 09:40	N101
168	On Materials with Time Dependent Properties: Application to the Continuum Mechanics of Curing	Steinmann, P. Hossain, M. Saxena, P.	University Erlangen-Nuremberg	Germany	Plenary Session, MS/Chaboche	July 9	14:15 - 14:55	N101
169	Innovative Strain Energy Based Thermo-Elastoviscoplastic Damage-Self Healing Model for Bituminous Pavements	Ju, J.W. Hong, S. Yuan, K.Y.	UCLA	United States	Plenary Session, MS/Voyiadjis	July 9	17:15 - 17:45	N101
170	EVALUATION OF MICROMECHANISMS OF DAMAGE AND FRACTURE IN COMPOSITE JOINTS	Dzenis, Y.	Department of Mechanical and Materials Engineering, University of Nebraska-Lincoln	United States	Theme 3: Experimentation and engineering application	July 10	15:50 - 16:10	C001
171	Numerical Simulation and Experimental Investigation of Damage Evolution in Steel S355	Tu, H.Y. Schmauder, S. Weber, U. Morgeneyer, T.F. Cheng, Y.	Institute for Materials Testing, Materials Science and Strength of Materials (IMWF), University of Stuttgart	Germany	Theme 1: Theoretical modeling in damage mechanics	July 10	16:10 - 16:30	A001

A total of 124 presentations with 12 plenary lectures and 8 short presentations not yet confirmed