

Final Program Twenty-first Engineering Mechanics Symposium

Tuesday, 23 October 2018		
10.00-10.30	Registration and informal get-together	Foyer 3
10.30-12.40	Opening session	Room 8-9
10.30-10.40	Opening of the Symposium by prof.dr.ir. Harald van Brummelen	
10.40-11.40	Koiter lecture by Prof. William Curtin	
11.40-12.10	Trends and challenges in "Model reduction". by Dr. Laura Iapichino (TU/e)	
12.10-12.40	Trends and challenges in "Designer materials" by Dr. ir. Can Ayas (TUD)	
12.45-13.45	Lunch	Restaurant 2028
13.50-14.50	Workshop 1 and 2, part A	
Workshop 1: Model reduction	Room 8-9	Workshop 2: Designer Materials
13.50-14.10 Boukje de Gooijer (UT) Reduction methods in metamodeling of metal forming processes		13.50-14.10 Mirosława Lewińska Acoustic metafoams: towards new material designs for improved sound attenuation
14.20-14.40 Long Wu (TUD) Modal derivatives enhanced Rubin substructuring method for geometrically nonlinear multibody systems		14.20-14.40 Max van der Kolk (TUD) Topology optimization of transient thermo-mechanical metamaterials.
14.50-15.50	Poster Discussion Session I: Presentation of current research projects, carried out by PhD students and Postdocs participating in Engineering Mechanics	Room 6-7
15.50-16.20	Break	Foyer 3
16.20-17.20	Workshop 1 and 2, part B	
Workshop 1, cont'd Model reduction	Room 8-9	Workshop 2, cont'd Designer Materials
16.20-16.40 Iuri Rocha (TUD) Accelerating Micromechanical Analysis of Laminated Composites		16.20-16.40 Omid Nejadseyf (UT) Tailoring material scatter for robust forming processes
16.50-17.10 Daniël Veldman (TU/e) Efficient simulation of a moving heat load problem		16.50-17.10 Sanne van den Boom (TUD) An enriched finite element framework for the immersed analysis of acoustic metamaterials
17.30-18.30	Poster Discussion Session II: Presentation of current research projects, carried out by PhD students and Postdocs participating in Engineering Mechanics	Room 6-7
18.30-19.00	Informal reception	Sydney Room
19.00-22.00	Dinner, including lecture by Albert Polman (Amolf Amsterdam) Smart materials processing to realize the solar revolution.	Sydney Room
22.00-24.00	Bar	Dug Out

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Wednesday, 24 October 2018		
08.45-09.45	Plenary Session	Room 8-9
08.45-09.15	Trends and challenges in "Energy systems and materials" by dr.ir. Sergio Turteltaub (TUD)	
09.15-09.45	Trends and challenges in "Model based sensing and instrumentation" by dr. Dario Di Maio (UT)	
13.50-14.50		
Workshop 3 and 4, part A		
Workshop 3: Energy systems and materials		Room 8-9
Workshop 4: Model based sensing and instrumentation		Room 6-7
09.45-10.05 Jamal Seyyed Monfared Zanjani (UT) Thermoplastic rain erosion protection for wind turbine blades	09.45-10.05 Neda Mostafa (UT) A Structural Health Monitoring Approach for Railroad Bridges.	
10.15-10.35 Awital Mannheim (TU/e) Tungsten in the fusion reactor wall: predicting and improving the microstructural evolution, using multi-scale modelling	10.15-10.35 Pierpaolo Belardinelli (TUD) Microcantilever dynamics for the characterization of particles and adsorbates.	
10.45-11.15	Break	Foyer 3
11.15-12.15		
Workshop 3 and 4, part B		
Workshop 3, cont'd Energy systems and materials		Room 8-9
Workshop 4, cont'd Model based sensing and instrumentation		Room 6-7
11.15-11.35 Davide Grazioli (TUD) Modeling and simulation of fiber-based electrodes for Li-ion batteries	11.15-11.35 Quentin Voortman (TU/e) Model Based Sensing for Systems Operating in Data-RateConstrained Environments	
11.45-12.05 Richard Dekker (TUD) Cohesive XFEM modelling of fatigue crack growth in offshore wind structures	11.45-12.05 Robin Dolleman (TUD) Graphene gas- and osmotic pressure sensors	
12.20-12.50	Biezeno lecture	Room 8-9
12.50-13.00	- Announcement of winning contributions in the AIO/Postdoc Presentation contest and in the Poster contest - Closure	Room 8-9
13.00-14.00	Lunch	Restaurant 2028
14.00-15.30	Assembly of Project Leaders EM	Room 6-7
16.00-20.00	Meeting of EM Advisory Board	