

Program 26th Engineering Mechanics Symposium

Monday and Tuesday, 30-31 October 2023

Monday, 30 October 2023		
10.00-10.30	Registration and Informal get-together	Foyer 1 & 2
10.30-12.40	Opening Session	Athene room C
10.30-10.40	Opening of the Symposium by prof.dr.ir. Harald van Brummelen	
10.40-11.40	Koiter lecture by prof. Ernst Rank, Technical University of Munich	
11.40-12.10	Trends and challenges in "Dynamics" by dr.ir. Gerard Verbiest	
12.10-12.40	Trends and challenges in "Green mechanics" by dr.ir. Vanessa Magnanimo	
12.45-13.45	Lunch	Foyer 1 & 2
13.50-14.50	Workshops 1 and 2, part A	
Workshop 1: Dynamics	Athene room A	Workshop 2: Green mechanics
13.50-14.10 Lars Janssen (TUE) <i>Cut-Off Frequency Selection with Guaranteed Assembly Accuracy in Component Mode Synthesis</i>		13.50-14.10 Floriana Anselmucci (UT) <i>Enhancing Soil Strength through Vegetation: Green Mechanics in Geotechnical Engineering</i>
14.20-14.40 Jip van Tiggelen (UT) <i>Challenges in simulating the forced vibration response of assembled space structures</i>		14.20-14.40 Robbert Nienhuis (RUG) <i>Ocean Battery: the mechanics of a novel underwater energy storage technology</i>
14.50-15.50	Poster Discussion Session I: Presentation of current research projects, carried out by PhD students and Postdocs participating in Engineering Mechanics	Athene room B
15.50-16.20	Break	Foyer 1 & 2
16.20-17.20	Workshops 1 and 2, part B	
16.20-16.40 Ruben Guis (TUD) <i>Confocal Atomic Force Microscopy</i>	Athene room A	16.20-16.40 Enxhi Sulollari (TUD) <i>Vibration-Induced Friction Force Modulation</i>
16.50-17.10 Mahshad Farzannasab (RuG) <i>Experimental Identification of Nonlinearity and Eigenvalue Assignment of a Nonlinear Electromagnetic System by the Receptance Method</i>		16.50-17.10 Shima Rezaie (TUE) <i>Gold Decorated Carbon Nanotube for Molecular Hydrogen Storage- A First-Principles Study</i>
17.30-18.30	Poster Discussion Session 2: Presentation of current research projects, carried out by PhD students and Postdocs participating in Engineering Mechanics	Athene room B
18.30-19.00	Informal reception	Foyer 1 & 2
19.00-22.00	Dinner, including lecture by Karin Sluis	Foyer 1 & 2
22.00-24.00	Bar	Dug Out

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08.45-09.45	Plenary Session	Athene room C
08.45-09.15	Trends and challenges in “Advanced Discretization and Solution Techniques” by dr. ir. Clemens Verhoosel	
09.15-09.45	Trends and challenges in “Mechanobiology” by prof.dr.ir. Vito Conte	
09.45-10.45	Workshops 3 and 4, part A	
Workshop 3: Advanced Discretization and Solution Techniques		Athene room C
Workshop 4: Mechanobiology		Athene room A
09.45-10.05 Kevin Dijkstra (TUD) <i>Local THB-Spline Bézier Projection</i>	09.45-10.05 Elmer Middendorp (TUE) <i>Simulating Heart Valve Growth and Remodeling after the Ross Procedure</i>	
10.15-10.35 Robin Willems (TUE) <i>An isogeometric analysis framework for ventricular cardiac mechanics</i>	10.15-10.35 Shari Gamaniel (UT) <i>Tongue Equivalent Design for Tribological Assessment of Astringency in Plant Based Proteins</i>	
10.45 -11.15	Break	
11.15-12.15	Workshops 3 and 4, part B	
Workshop3, cont'd: Advanced Discretization and Solution Techniques		Athene room C
Workshop 4, cont'd: Mechanobiology		Athene room A
11.15-11.35 Hugo Verhelst (TUD) <i>Isogeometric Analysis of Wrinkling</i>	11.15-11.35 Saber Shakibi (RuG) <i>Towards a Multiscale Model of the Brain ECM</i>	
11.45-12.05 Reidmen Arostica Barrera (RuG) <i>Parameter estimation in fluid-solid interaction</i>	11.45-12.05 Ebrahim Yarali (TUD) <i>Poisson’s Ratio-Driven Bone Cell Growth in Meta-Biomaterials</i>	
12.20- 12.50	Biezeno lecture by Dr. Björn Nijhuis	Athene room C
12.50-13.00	Prize ceremony and closure	Athene room C
13.00-14.00	Assembly of Project Leaders EM (lunch included)	Athene room B
13.00-14.00	Lunch	Foyer 1 & 2