

8th TensiNet Symposium 2026 & 7th Essener Membranbau Symposium 2026
„Shaping the pathway to future tensioned membrane design“
September 30 – October 2, 2026, Essen, Germany

Day-by-Day Overview of Full Symposium Activities (Preliminary Version 06.08.2026)

Wednesday, September 30th

<i>Time</i>	<i>Building/Room</i>	
8:30 – 9:00	Glaspavillon	Registration
9:00 – 9:30	Glaspavillon	Welcome & Introduction
9:30 – 10:15	Glaspavillon	Keynote Lecture: <i>La mia vita, una passione per le membrane (My life, a passion for membranes)</i> <i>Roberto Canobbio</i>
10:15 – 11:00	Glaspavillon	Coffee Break
11:00 – 12:30	R11 T00 D03	Parallel Session A: Design, Modelling and Simulation of Structural Membranes (Topic 1) <i>Chair: tba</i> Analysis of combined cable-guided retractable membrane structures with highly detailed global FEM-models <i>Laurin Schäfer</i> Modelling and Multi-Objective Optimization of a Pneumatic Membrane Actuator for Adaptive Building Façades <i>Marcello Gori</i> A Data-Based Adaptive Elastic Framework for High-Accuracy Simulation of Textile Membrane Structures <i>Mehran Motevalli</i> Potential and limitations of ETFE-foils in pneumatically retractable structures <i>Dominik Runge</i> Façade Air-Gap Optimization for Aerodynamic Enhancement of Fog-Harvesting Membrane Systems <i>Bin Liu</i> Development of a pneumatic actuator based on bio-PU coated fabrics for architectural applications <i>Paolo Beccarelli</i>
11:00 – 12:30	R11 T00 D05	Parallel Session B: Materials and Execution (Topic 2) <i>Chair: tba</i> ViewScape: Next Generation Foil <i>Steve Sorrentino</i> Hybrid structural system: PVC-PES membrane & prestressed concrete <i>Aleksandar Vucur</i> Factors affecting the all-cellulose composite's structure formation and their impact on mechanical properties and biodegradability <i>Mohamed Salam</i> Adaptive Knitted Membranes: Customisable, Waste-Free Architectural Skins for Sustainable Building Envelopes <i>Martin Tamke</i> IconWeave Diamond Mesh: A New Generation of PTFE Mesh for Iconic Façades and Tensioned Skins <i>Mohammed Bahsh</i> A Novel FRP Braided Branching Support System for Tensile Free Form Fabric Surfaces <i>Hastia Asadi</i>
12:30 – 14:00	Mensa	Lunch
14:00 – 14:45	Glaspavillon	Keynote Lecture: <i>Advancements in testing, modelling and standardization of structural membranes</i> <i>Natalie Stranghöner, Jörg Uhlemann</i>
14:50 – 16:20	R11 T00 D03	Parallel Session A: Design, Modelling and Simulation of Structural Membranes (Topic 1) <i>Chair: tba</i> Numerical Modeling of Membrane Structures: Formfinding Considering Support Stiffness and Automated Ponding <i>Analysis - Hrvoje Petrovic</i> Long-Term Behaviour of ETFE Films - 100,000 Hour Creep Test with Subsequent Recovery <i>Karsten Moritz</i> Optimizing the Compression Ring <i>Josep Ilorens</i> Design values and material constants derived from tests for the use in CEN TS 19102 <i>Patrick Beck</i> Introduction to the technical specification EN/TS 19102 'Design of tensioned membrane structures': Example of application and the role of execution rules <i>Marijke Mollaert</i> ULS verification in CEN TS 19102 compared to other methods <i>Bernd Stimpfle</i>
14:50 – 16:20	R11 T00 D05	Parallel Session B: Materials and Execution (Topic 2) <i>Chair: tba</i> Technical design of the ETFE cushion envelope for the Parc des Expositions station (Grand Paris Express) <i>Feike Reitsma</i> Investigations into the multiaxial material behaviour of ETFE-foils in bubble inflation tests <i>Felix Surholt</i> Biaxial Tensile Testing of Knitted Fabrics for Exploring Natural Fibre Properties in Novel Membrane Architecture <i>Ilaria Pugliese</i> Beyond material deterioration: form alteration of weathered tension fabric structures <i>Hastia Asadi</i> Ballistic Performance Evaluation of an Innovative Flexible Textile Panel for Protective Wall Applications <i>Salvatore Viscuso</i> Compatible Anchoring Systems of Textile Membranes in Architectural Heritage: The Case Study of Courtyards Roofing - <i>Lorenza Coco</i>
16:25 – 17:00	Glaspavillon	Coffee Break
17:00 – 17:45	Glaspavillon	Keynote Lecture: <i>Shading of Places</i> <i>Marc Gabriel</i>
17:45 – 20:30	Campus/ELLF	Welcome Reception