

TensiNewsflash

SPRING 2024

Dear TensiNet member,

Please find below the latest TensiNewsflash.

TENSINEWS 48 &

TENSINEWS 49 CALL FOR CONTRIBUTIONS DEADLINE 24.07.2025 -----

Please find the latest TensiNews 48 issue under [new TensiNews issues](#) (login). You can already submit for the next TensiNews 49 issue an article, project description, upcoming event, new development, research report or book review*. Send your contribution to evi.corne@vub.be. Please follow these simple rules:



- The text should be written in English, submitted in Word-format
- Images are to be sent separately, with a resolution of 300dpi in .jpg-format (For easy reference during the layout process, it can be useful to include a copy of the pictures in the text file as well).
- For research articles the maximum word amount is set to 5000 words (equivalent of four pages in TensiNews layout).
- Project descriptions need to be accompanied by full contact details of the author, and other information such as architect, contractor, approx. span, height, membrane material, etc. This facilitates the inclusion of the project in the online database. (See below)

Name of the project:
Location address:
Client (investor):
Function of building:
Type of application of the membrane:

Year of construction:
 Architects:
 Multi-disciplinary engineering:
 Structural engineers:
 Consulting engineer for the membrane:
 Engineering of the controlling mechanism:
 Main contractor:
 Contractor for the membrane (Tensile membrane contractor):
 Supplier of the membrane material:
 Manufacture and installation:
 Material:
 Covered surface (roofed area):

* TensiNet and TensiNews provide to partners and members a platform to present projects, new developments and scientific results. The articles within TensiNews should have a scientific, technical or journalistic value, i.e. it should be informative, and not mainly marketing information.

WORKING GROUP EUROCODE

WG leader: Marijke Mollaert



The WG5 of CEN TC 250 and WG Specifications & Eurocodes did apply for the adoption of preliminary work items for:

- * EN 19102-1-1 Eurocode 12 Design of tensioned membrane structures – Part 1-1: **General rules** and rules for buildings, bridges and civil engineering structures;
- * EN 19102-1-2 Eurocode 12 Design of tensioned membrane structures – Part 1-2: **Structural fire design** and
- * EN 19102-2 Eurocode 12 Design of tensioned membrane structures – Part 2: **Execution**

You find also the invitation to attend the **online workshop: The second generation Eurocodes: key changes and benefits through design examples**. It will be held from Tuesday 3th June 2025 till Thursday 5th June 2025.



The registration is open at <https://eurocodes.jrc.ec.europa.eu/events/second-generation-eurocodes-key-changes-and-benefits-through-design-examples>. On **Tuesday 3 June 2025 (3:00 PM - 4:15 PM CEST)** Marijke Mollaert and Bernd Stimpfle will present **CEN/TS 19102 'Design of tensioned membrane structures'**.

WORKING GROUP SUSTAINABILITY & COMFORT -----



WG leader: Carol Monticelli

The decisions of the previous meeting were oriented to the proposal for the development of the grouped EPDs for membrane materials. After the PCRs publication, the next step is the writing of **2 Environmental Product Declarations (EPD): a group EPD for PVC coated polyester fabric and a group EPD for ETFE-foils**. We have started the group EPD for PVC coated polyester fabric and ETFE-foils within TensiNet. **To proceed we need committed members**, especially the companies for the membrane production. Doing group EPDs helps with marketing, design, cost savings and supporting small suppliers. It's a smart and inclusive way to promote sustainability in the technical textiles industry for the long term. Interested in being involved in this WG, send an email to carol.monticelli@polimi.it

WORKING GROUP DIGITAL -----



WG leader: Maxime Durka

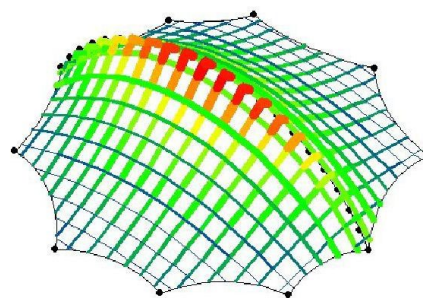
The aim of this WG is to give TensiNet a higher visibility on digital platforms. We are optimising the TensiNet website and have committed to posting LinkedIn posts more regularly. Today, we reach more than 2399 LinkedIn followers!

Together with the web designer aware, in the coming weeks the structure of the website will be further simplified, and the website will become more visually appealing through the use of image tiles.

ACTIVITIES AND NETWORKING -----

TEXTILE ROOFS 25th – 27th May 2025, Berlin

These workshops are concerned with the design of architectural membrane roof structures. With a combination of visually dramatic curvilinear form, and economic efficiency, such architectural solutions represent an attractive option for many situations. The textile roof industry continues to grow world-wide. In order to encourage this development, workshops on the Design and Realisation of Textile Roofs have been held in for more than 25 years. The main objectives of this workshop are to provide fundamental information, as well as presenting the state-of-the-art in textile roof engineering. Above all, the workshop aims to provide practical answers to real-world questions. www.textile-roofs.com



FREI OTTO 100 The spirit of lightweight construction 5th – 6th June 2025, Stuttgart



Frei Otto was a visionary innovative architect and master of lightweight structures. To commemorate his extraordinary spirit of experimentation, his works, methods, and international networks, the Institute for Lightweight Structures and Conceptual Design (ILEK) is organizing a two-day international symposium in collaboration with the Institut für

Architecturgeschichte (ifag). The two-day event will take place on 5th and 6th June in the ILEK "Tent" designed by Frei Otto. This provides an inspiring space for open reflection on past and present achievements in the field of lightweight construction. The symposium will include a historical reflection on Frei Otto's work, methods and networks, supported by the testimony of several contemporary witnesses. It will also focus on how different generations of researchers and practitioners interpret the legacy of Institute for Lightweight Structures at the University of Stuttgart. <https://www.ilek.uni-stuttgart.de/>



The symposium will conclude on Friday 6th June with a cocktail party for 25 years of TensiNet followed by General assembly. Please register in advance: info@tensinet.com

16.00 Cocktail party | 16.45-17.45 General assembly

STRUCTURAL MEMBRANES XII International Conference on Textile Composites and Inflatable Structures 8th – 10th October 2025, München

The main objective of Structural Membranes 2025 is to collect and disseminate state-of-the-art research and technology for design, analysis, construction and maintenance of textile, tensile and inflatable structures. Contributions on other lightweight structural systems are also very welcome. The conference will address all aspects related to design, analysis, planning, manufacturing, testing, construction and maintenance of tensile structures. Contributions including advances in materials, life-cycle analysis, environmental conditions, monitoring and applications of machine learning and artificial intelligence are encouraged. Structural Membranes 2025 aims to be a forum of experts of all different fields related to tensile and lightweight structures for discussing recent progress and identifying future research directions within a relaxed environment. <https://structuralmembranes2025.cimne.com/>

IASS ANNUAL SYMPOSIUM 2025 The Living Past as a Source of Innovation 27th – 31st October 2025, Mexico

Mexico has already held two previous editions of this symposium – the first time in 1967 in Mexico City and the second time in 2008 in Acapulco, Guerrero. The third edition would be at the Palacio de Minería, located in the historic center of Mexico City.



Mexico's cultural richness and constructive tradition have gone hand in hand since time immemorial. This is how the past and the present coexist daily in our territories, architectures, structures, and spatial solutions. The IASS 2025 theme symposium, **“The living past as a source of innovation,”** will look towards novelty: learning from good

construction practices and using the new technologies and materials of our time to project ourselves into the future. What lessons can we transmit from the historical tradition, from projection, technical, geometric, project, and structural solutions? What can we implement in the future in a world in perpetual transformation? The invitation opens to a rich discussion and deep reflection: let us raise, listen, and learn together from experiences worldwide. <https://iass2025.unam.mx/>

8th TensiNet Symposium 2026 & 7th Essener Membranbau Symposium 2026 SHAPING THE PATHWAY TO FUTURE TENSIONED MEMBRANE DESIGN 30th September – 2nd October 2026, University of Duisburg Essen, Campus Essen



The main topics of this 3-days symposium are 1/ Design, Modelling and simulation of structural membranes; 2/ Materials and executions and 3/ Sustainability and building physics. The following keynote speakers have confirmed: **Roberto Canobbio** “La mia vita, una passione per le membrane” (My life, a passion for membranes); **Marc Gabriel** “Shading of Spaces”; **Dr. Carl Maywald** “Reaction to fire of membrane cladding systems”; **Christoph Paech** “Durability assessment and enhancement of membrane structures”; **Farid Sahnoune** “Fire safety of textiles”; **Bernd Stimpfle**

“Membranes refreshed”; **Prof. Natalie Stranghöner** “Assembly and long-term behaviour of glass-PTFE fabrics”; **Dr. Jörg Uhlemann** “Material modelling for textiles and foils for design” and **Prof. Alessandra Zanelli** “Membrane as sunlight controller: The crucial role of textile architecture in cultural heritage protection”.

Time is also set aside for various visits: visit to the test laboratories of the University of Duisburg-Essen, visit to the Ruhr Museum in Zeche Zollverein and the technical visits to Mehler Technologies and the Factory tour Zoom Erlebniswelt. <https://www.uni-due.de/iml/tensinet-ems2026.php#>

CALL FOR ABSTRACTS Interested to participate?! Choose one of the topics and upload your abstract (Text only, 400 Words, 5 Keywords). Timing: **Abstract submission 31.08.2025** | Abstract acceptance 31.10.2025 | Paper submission 15.02.2026 | Paper acceptance or feedback 31.03.2026 | Revised paper submission 30.04.2026

CALL FOR SPONSORING There is the opportunity to sponsor the TensiNet-EMS 2026 symposium. There are 4 categories with corresponding benefits: Platinum sponsorship for 4000€; Gold for 3000€; Silver for 2000€ and Copper for 1000€. For more information see www.uni-due.de/iml/te26-id10.php. If additional information is needed, please contact evi.corne@vub.be

We look forward to seeing you at one of the upcoming events! Kind regards

Evi Corne & Marijke Mollaert