

TensiNewsflash

AUTUMN 2023

Dear TensiNet member,

Please find the latest TensiNewsflash. Enjoy your reading!

TENSINews



TensiNews 45 includes a detailed summary of the symposium TENSINANTES2023 prepared by Josep Llorens, the results of a research project by KIT on biogas storage systems, two contributions on the importance of maintenance, updates on the activities of the WG sustainability & comfort and two interesting projects. You will notice that sustainable aspects are on the agenda!

[Link](#) (login first)

WORKING GROUP EUROCODE



WG leader: Marijke Mollaert

The CEN/TC 250 CIB result on execution rules for tensioned membrane structures was positive. This means that WG 5 can start preparing a working document on assumptions relating to execution matters upon which the design provisions of tensioned membrane structures rely (based on content in prCEN/TS 19102), without prejudice as to where the content will finally be published (2023-03-28).

The FV of prCEN/TS 19102 Design of tensioned membrane structures has been approved unanimously (2023-07-25).

The version of the TS 19102 submitted to the approval procedure has been updated, considering the comments from the approval procedure (2023-09-05).

WORKING GROUP SUSTAINABILITY & COMFORT -----



WG leader: Carol Monticelli

You will find a detailed update on the WG activities in the latest TensiNews 45. The WG meeting held during the TENSINANTES2023 symposium was a productive opportunity to share with a wider audience the issues related to the environmental impact of membrane architectures and products that the WG has been working on since last year. The aim of the meeting was to update the members on the activities related to a) the Product Category Rules (PCR) for structural membranes (fabrics, coated fabrics and foils) and the ongoing collaboration with the German Institut Bauen und Umwelt e.V (IBU) and b) activities and decisions related to the ECHA (European Chemical Agency) consultation on the PFAS restriction proposal.

Meanwhile on 22nd September Carol Monticelli uploaded the response of TensiNet to the PFAS Restriction Proposal on the ECHA website. We would like to thank the TensiNet members for the productive discussions during the past weeks and for signing the online petition. Let's hope for a valuable evaluation of the provided comments!

Not yet active in this WG and interested to join? Send an email to info@tensinet.com

ACTIVITIES AND NETWORKING -----

PODCASTS **LIGHTWEIGHT + DURABLE** by Serge Ferrari and TensiNet



In these podcasts, you'll discover the benefits of tensile architecture, and in particular how tensile structures help to reduce the carbon footprint of construction.

Our experts, world-renowned for their expertise in this field, share their thoughts on this fascinating subject. The 4 podcasts were recorded during the symposium TENSINANTES2023 at Nantes Université on Thursday 8th June 2023.

Carbon Footprint: How lightness could be an advantage in the construction sector compared to other traditional material? [Link](#)

Bruce Danziger & Zehra Eryuruk

Next Generation building through Tensile Architecture. [Link](#)

Nitin Govila

Sustainability and comfort: How does membrane architecture fits today's challenges in the built environment? [Link](#)

Ramon Sastre & Carol Monticelli

Tensioned membrane structures: The seventh building material for great construction. [Link](#)

Bernd Stimpfle & Peter Gosling

SYMPOSIUM 2026 call to organise the next TensiNet symposium – deadline 21.12.2023

Every 3 years TensiNet organises together with a university member its TensiNet symposium.



TENSINANTES2023 “Membrane architecture: the seventh established building material. Designing reliable and sustainable structures for the urban environment” was the seventh of a series of symposiums that began in Brussels in 2003: “Designing Tensile Architecture” and continued in Milano in 2007: “Ephemeral Architecture: Time and Textiles”, Sofia in 2010: “Tensile Architecture: Connecting Past and Future”, Istanbul in 2013. “[RE]Thinking

Lightweight Structures”, Newcastle in 2016: “Novel Structural Skins” and Milano 2019: “Softening the habitats”.

Interested in this adventure? Send an email to info@tensinet.com and collect some basic information on your university, the organising team, the city and proposed topics in a ppt presentation. Early next year, the Permanent Members will decide with which university the 2026 symposium will be organised.

UPCOMING SYMPOSIA Do not miss **STRUCTURAL MEMBRANES 2023** (2-4.10.2023) in Valencia, Spain. The objectives of Structural Membranes 2023 are to collect and disseminate state-of-the-art research and technology for design, analysis, construction and maintenance of textile and inflatable structures. The conference will address both the theoretical bases for structural analysis and the numerical algorithms necessary for efficient and robust computer implementation. A significant part of the conference will be devoted to discuss advances in new textile composites for applications in membrane and inflatable structures in the building and construction sectors, as well as in innovative design, construction and maintenance procedures. <https://structuralmembranes2023.cimne.com/>

Kind regards,

Evi Corne & Marijke Mollaert