TENSINET ASSOCIATION

International Non-Profit Association
Lombeekweg 26, B1740 Ternat, Belgium
www.tensinet.com

TensiNet meeting 02.10.2026

1. Welcome

Evi Corne and Marijke Mollaert welcome the participants of this meeting.
This TensiNet meeting was organised just before the start of the final day of the TensiNet – Essener Membranbau symposium 2026, with the following agenda items:

- **Textile Roofs 2026 – student competition**
- **2nd Level Specialising Master TENS.ART Textile Architecture and Tensile Structure Design**
- **Basic Course Archineer® in Membrane Structures**
- **Shortlist of possible webinars topics for 2026-2027**
- **work package and the follow-up of the TensiNet association**

2. Textile Roofs - student competition 2027

Rosemarie Wagner presents the student competition organised as part of Textile Roofs 2027. The flyer shows basics and an initial overview of the competition's framework. She invites the universities to have a look at the website www.textile-roofs.com. Several universities have shown their interest already in participating.

3. Education - 2nd Level Specialising Master TENS.ART Textile Architecture and Tensile Structure Design

Alessandra Zanelli presents the recently launched 2nd Level Specialising Master TENS.ART. It is a combination of online courses, courses at POLIMI and Technical visits. The application period and the online Kick-off meeting is still foreseen this year, the working sessions are scheduled from January 2027 on. Duration of the course is 18 months. See also www.polimi.it/en/education/specializing-masters-and-postgraduate-programmes/master-detail/3266

4. Education - Basic Course Archineer® in Membrane Structures

Karsten Moritz gave a brief overview on the IMS BAUHAUS® ARCHINEER® INSTITUTES e.V. In the next stage, he presents the Basic Course Archineer® in Membrane Structures, which was launched in 2006. As a platform for the international membrane community, they advance knowledge, innovation, collaboration and quality - strengthening the recognition of membrane and lightweight structures for the benefit of society. There are 3 parts: theory; computer workshops and student project. See also https://www.ims-institute.org/ims-education/archineer/

5. Shortlist of possible webinar topics for 2026-2027

The idea is to reactivate the monthly webinars. Evi Corne requests the audience who is interested to give a presentation in 2026 – 2027. The following participants shown their interest. They will be contacted to fine tune the content of their presentation and fix a date.

Phil Schneider, Christophe Paech	Project presentation VF, sbp – from design to execution. What are the lessons learned	
Thomas Hermeking	Project report - Pfeifer	2027

Christopher Rowell	Project presentation Architen Landrell	2027
Natalie Stanghöner, Jörg Uhlemann		2027
Emma de Groen	Project presentation Tentech	2026
Farid Sahnoune	Fire safety	2026
Günther Filz	Student projects	2027
Paolo Beccarelli	Biobased membranes	2027
…		

The webinars are open for everybody and should be freely spread. To reach not only the TensiNet members by mass mail but to attract more people to attend these webinars, announcement will be disseminated also through LinkedIn. You don't need to confirm to attend. It was also proposed to send calendar invitation (teams) and to foresee an "unsubscribe" button.

6. Work package and the follow-up of the TensiNet association

Marijke Mollaert (10%) and Evi Corne (40%) would like to see their contracts/commitments terminated end 2028 (Marijke - Eurocode) and end September 2028 (Evi) as VUB will end Evi 's contract end September 2028. Evi Corne gives a summary of the tasks and send out the call who could be interested to take over TensiNet (with a smooth transition).

7. Structural Membranes 2029

Ann-Kathrin Goldbach mentions that TUM will organise Structural Membranes 2029. She invites the TensiNet Association to organise a joined symposium within 3 years.

Evi Corne
Marijke Mollaert

October 2026

TensiNet meeting
02.10.2026
Essen



Agenda

- **Textile Roofs 2026 – student competition**
- **2nd Level Specialising Master TENS.ART Textile Architecture and Tensile Structure Design**
- **Basic Course Archineer® in Membrane Structures**

Agenda

- **Shortlist monthly webinar 2026-2027**
- **TensiNet – future plans**

Textile Roofs 2026 – student competition

02.10.2026

Student Competition at Textile Roofs 2027

Build a membrane structure!

Work on the draft

Write your submission

Present your design in Berlin

Build the winning design with your competitors

Textile Roofs 2027 workshop and their partners announce a student competition focused on membrane design and textile architecture. The competition is open for Bachelor and Master students in arts, architecture, engineering and building sciences.

Design Task Formulation

The challenge is to design a free-standing structure, that could be build within 3 days. Limited in size, reuseable and visually impressive the design should be an elegant and light-weight membrane construction. It is multifunctional and use-able (workshops, smaller conferences and meetings) under different weather conditions. Limit stiff elements to a minimum and make it as flexible as possible.

Dates, Deadlines and Price

Design development: winter semester 26/27
Submission deadline: 2027, April - May
3rd Comp. phase (Berlin): **2027, May 22nd -25th**
300€ net all inclusive (catering, social events - except accommodation)

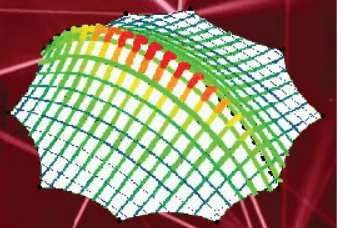
- **Cool prizes**
- **Direct contact to international community**
- **A prominent Jury**
- **Social events enclosed**
- **Visibility to the employment market**

Textile Roofs since 1995

invented by Prof. Dr.-Ing. Lothar Gründig (TU-Berlin)

International Workshops on the Design and Practical Realization of Architectural Membrane Structures

Scientific Director: Prof. Rosemarie Wagner







The 28th edition
2027, May 23rd - 25th

Berlin, Germany

organized and operated by

ACADEMUS ACADEMY SERVICES

KIT Karlsruhe Institute of Technology

TensiNet

3dtex

formTL gmp

STOFFDACH CONSTRUCTION

technet gmbh

Student Competition at Textile Roofs 2027

Build a membrane structure!

The entire process from initial design and modeling to the final construction in Berlin supported and evaluated by industry experts



c/o academus GmbH • Mindener Str. 22 • 10589 Berlin +49 1754145520

2nd Level Specialising Master TENS.ART Textile Architecture and Tensile Structure Design

02.10.2026

MASTER ID3266 - EDITION I

DIRECTOR
Prof. Alessandra Zanelli
Politecnico di Milano

VICE-DIRECTOR
Marijke Mollaert, TensiNet Association,
Vrije Universiteit Brussel, Brussels

LOCATION
DEPARTMENT OF ARCHITECTURE,
BUILT ENVIRONMENT, AND
CONSTRUCTION ENGINEERING
CAMPUS LEONARDO - BUILDING 14
VIA GIUSEPPE PONZIO 31
20133, MILANO

MASTER MANAGEMENT
CONSORZIO CIS-E - POLITECNICO DI MILANO
PIAZZA LEONARDO DA VINCI 32
20133 MILANO (MI)
Telephone: +39 02 2399 4341 (4252)
GIOVANNI FRANCHI
email: franchi@cise-polimi.it
LAURA CANU
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EXPRESSION OF INTEREST

OFFICIAL WEBPAGE FOR ENROLLMENT

SCIENTIFIC PATRONAGE

TensiNet European Association

SITdA Italian Society of Architectural Technology

ISTeA Italian Society of science, Technology and Engineering of Architecture

Ar.Tec. Scientific Society of Technical Architecture

TECHNICAL PARTNERS
Do you want to become a technical partner: write us at the following email: master-tensart-dabc@cise-polimi.it

technet GmbH - Software& Expertise

DABCLab System of Research Labs
TextilesHUB Interdepartmental Lab
MUSA Living Lab "too cool to go wasted"

2nd Level Specialising Master

TENS.ART

Textile Architecture and Tensile Structure Design

Art, Technologies and Materials for Lightweight Structural Systems

POLITECNICO MILANO 1863 | DEPARTMENT OF ARCHITECTURE BUILT ENVIRONMENT AND CONSTRUCTION ENGINEERING

2nd Level Specialising Master in Textile Architecture and Tensile Structure Design

INTRODUCTION

The ecological transition demands new ways of designing with less material, lower environmental impact and greater adaptability. Textile architecture and tensile structures embody this vision, combining lightness, efficiency and innovation to create sustainable building systems.
The Master promotes an interdisciplinary approach that integrates architecture, engineering, design and material science. Collaboration with leading companies and manufacturers ensures a strong connection between academic research, technological innovation and professional practice.

LEARNING OBJECTIVES

The Master trains professionals capable of designing and developing lightweight and tensile structures from concept to construction. The programme combines theoretical knowledge, design studios, advanced digital tools, structural analysis and environmental assessment, together with seminars led by international experts and internships in specialised firms and industries. Students gain expertise in membrane technologies, fabrication processes, innovative materials and Life Cycle Assessment (LCA), supported by site visits and direct engagement with the sector.

CAREER OPPURTUNITIES

Graduates will be prepared for careers in architecture and engineering firms, specialised manufacturers, construction companies and research centres working with membrane systems and lightweight structures.
Opportunities include design, project management, BIM, technical consulting and material innovation, as well as applications in temporary architecture, sports facilities, urban regeneration, mobility and exhibition design.

LEARNING JOURNEY

online kickoff → intensive working weeks → online monthly lessons → proof of concept technical visits specialists'reviews → master ceremony

DIDACTIC CONTENTS

01 MEMBRANE BASIC KNOWLEGDE

Legacy of membranes, materials and techquiques
Form finding and architectural shapes of tensile structures
Structural logic and basic systems of membranes
Design to construction overwiew, Life cycle thinking approach
Shaping & calculating: physical vs computational approaches
Fundamentals of mathematic, Physic and mechanics for membranes

02 DESIGNING

Architectural design, Structural design, Statical Analysis
Data drive design for unconventional materials and structures
Building physics: Thermal, optical, acoustic performacences
Detail design, Construction and installation
Temporary buildings vs permanent buildings
Sustainability, comfort and LCA

03 MANUFACTURING

Technical visits and site visits: on coated menbrane, ETFE cushion, temporary lightweight structure
Cutting-pattern generation
Details and connections design, Packaging and delivering issues
Maintenaince, monitoring, repairing

04 PRACTICE

EU standards, Eurocodes, buildign codes
Advanced conputational design, part 1: Hybrid systems, cable nets
Advanced conputational design, part 2: Pneumatics
BIM: approaches & tools
Specifications and tendering
Management of the work flow: from design to construction
End-of-life: dismantle, reuse, recycle, upcycle

05 INNOVATION

Material and chemistry advancements
Industrial symbiosis between Fashion and Architecture
Knitting technology, climatic sheltering
Nature-based solutions and bio-based materials
Natural fibers and temporary structures

OUTPUT

SHAPE your CREATIVE VISION
DEVELOP your PROOF OF CONCEPT
MASTER the SYSTEM

KEY INFORMATION AND DATES

Application period
6 July - 09 October 2026

Enrollment completion period
10 September - 9 November 2026

20 November 2026
online Kickoff Meeting

FOUR INTENSIVE SESSIONS:

01 27 Jan - 3 Feb 2027
8 days of working session,
Politecnico di Milano, Milan

02 19 Apr -26 Apr 2027
(MILAN DESIGN WEEK) in Milan

03 3 Oct - 17 Oct 2027
week 40 at Politecnico di Milano, Milan (ARCH WEEK)
week 41 at Politecnico di Torino

04 week 15 and 16, April 2028
proof of concept development and exhibition
(MILAN DESIGN WEEK) in Milan

CONTINUOUS TEACHING
Online lesson, per month, on Wednesday,
from 4 pm to 6 pm

TECHNICAL VISITS
manufacturing and work site visits
in Italy and Germany
reviewing your proof of concept with specialists

End of the Master Ceremony
5 May 2028, Politecnico di Milano, Milan

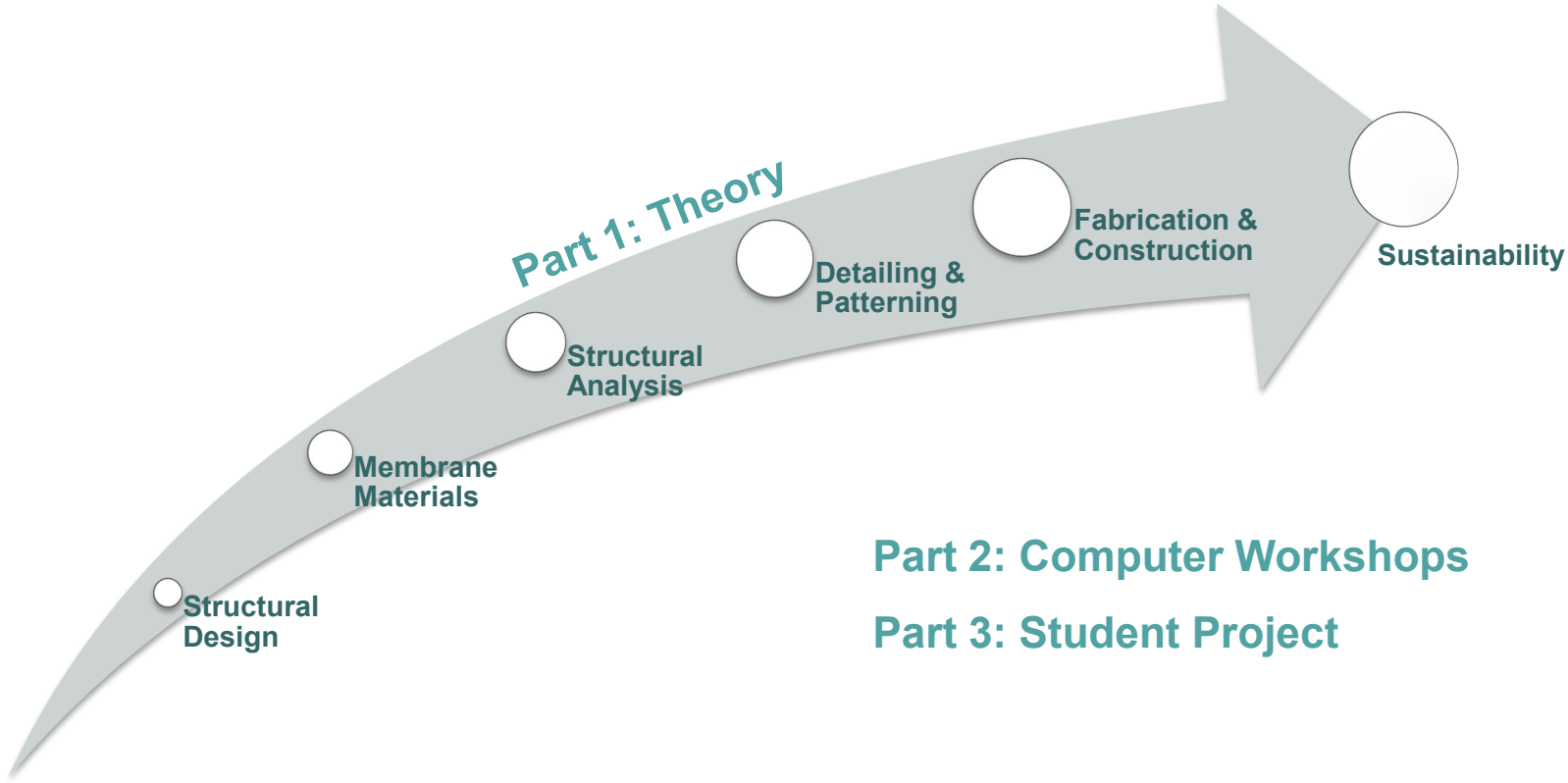
IMS BAUHAUS® ARCHINEER® INSTITUTES e.V

Archineer® in Membrane Structures

We shape a sustainable and liveable built environment by connecting architecture, engineering, science and practice.

As a platform for the international membrane community, we advance knowledge, innovation, collaboration and quality - strengthening the recognition of membrane and lightweight structures for the benefit of society.

Archineer® in Membrane Structures



Part 2: Computer Workshops

Part 3: Student Project

5th May 2021



BC - Archineer® in Membrane Structures



AC - IMS BAUHAUS® Advanced Courses



PC - Specialist Engineer for Membrane Structures



TC - IMS BAUHAUS® Tensile Intense Course – Spanish

Contact: sarah.von-der-weth@ims-institute.org
https://www.ims-institute.org/ims-education/archineer/

Shortlist monthly webinar 2026-2027

Topics - Proposals

Architectural membranes over the last 20 years (Françoise Fournier)
Eurocode
Pfas – what impact could the ban have on existing buildings? What if a material can't be replaced during renovations? Glas has another weight and detailing than membranes. (no ban for greenhouses)
LCA (different webinars related to 1 specific topic) • Basic information: comparison as explanation; How to use software • Casestudies comparisons (early stage considerations) (Serge Ferrari) Involve an external (IASS-WG6)
Fire safety
Project presentation – from design to execution. What are the lessons learned. sbp & VF formTL & Canobbio
Good practice (Heidrun Bögner Balz)

TensiNet – future plans

Context

- Marijke Mollaert (10%) and Evi Corne (40%) would like to see their contracts/commitments terminated end 2028 (Marijke - Eurocode) and end September 2028 (Evi) as VUB will end Evi ’s contract end September 2028.

TensiNet – future plans

Communication and support

- Communication (mailings, team meetings, etc)
- Layout TensiNews + print service (TMC)
- Data storage (dropbox)
- Website, IT support (Web designer aware)
- Accountancy Cludts (Peppol, Falco platform, keep address in Belgium? (statutes, notary, taxes?))
- External support in connection with Evi's appointment as an employee (social security office SD Worx, insurance, Mediwet)
- Bank accounts (Beobank)

TensiNet – future plans

Tasks

- TensiNews 2/year (digital and printed)
- TensiNews Flash 4/year
- TensiNet members (invoices/follow up)
- Orders (invoices/follow up)
- Received invoices (peppol, Falco, payment)
- Packing & dispatching
- Update website
- Posts LinkedIn
- Report to accountancy
- TensiNet symposium, every 3 years

TensiNet – future plans

Tasks

- **Working Groups (invitation, minutes, disseminate, prepare, etc)**
- **AGM (preferable physical meeting combined with event)**
- **Permanent Members meetings, Board of Director meetings, brainstorm meetings**
- **Free webinars (content, invitation/registration/ handouts/video**
- **Education at universities**
- **…**

Fulltime equivalent: Marijke Mollaert: 10% (but in fact more); Evi Corne: 40% (but in fact more).

Who could be interested to take over TensiNet (with a smooth transition)?

Thank you and enjoy the lectures