

TensiNet Symposium 2019

Softening the Habitats.  
Sustainable innovation in Minimal Mass  
Structures and Lightweight Architectures

Politecnico di Milano  
3-5 June 2019  
Milan – Italy

For more information please visit and contact us at

[www.tensinet2019.polimi.it](http://www.tensinet2019.polimi.it)

[tensinet2019info@polimi.it](mailto:tensinet2019info@polimi.it)

#softeningthehabitats

TS  
19

THE 6<sup>TH</sup> TENSINET  
SYMPOSIUM 2019  
MILAN, ITALY  
3-5 JUNE

Organised by

TensiAet



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SUSTAINABLE INNOVATION IN MINIMAL MASS STRUCTURES AND LIGHTWEIGHT ARCHITECTURES

## The 6<sup>TH</sup> TensiNet Symposium 2019, 3-5 June, Milan – Italy

### Softening the Habitats:

Sustainable Innovation in Minimal Mass  
Structures and Lightweight Architectures

The 2019 TensiNet edition will open a twofold reflection  
- by means of the conference and the exhibition - on  
current innovations, trends and strategies in the field of  
lightweight membrane structures.

### The Conference

Three plenary sessions – Soft Structures, Softening the  
Environment and Soft Skins, plus five parallel sessions  
will open new ways up for softening the habitats.  
In particular, in the second afternoon a panel session will  
be devoted to an IASS joined session on the WG 18:  
Environmental Compatible Membrane Structures semi-  
nar advancements. Furthermore, an Open Talk will be the  
chance to spread and take feedback from sharing the  
advancements of the TensiNet Working Groups.

### The Exhibition

With the title INTENSION, taking place from the 3rd to  
the 15th of June 2019, the exhibition will focus on the  
future of lightweight structures in the context of sustain-  
able development, with the intention of making advance-  
ments in the field more widespread among the common  
building construction practice.

### Symposium Secretariat

TS2019 Organizing Committee

*Politecnico di Milano*

Alessandra Zanelli | Carol Monticelli

*TensiNet association*

Evi Corne | Marijke Mollaert | Bernd Stimpfle

### Scientific Committee

Adriana Angelotti | Politecnico di Milano, Italy

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Valter Carvelli | Politecnico di Milano, Italy

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Jan Cremers | Hochschule für Technik, Germany

Lars De Laet | Vrije Universiteit Brussel, Belgium

Christoph Gengnagel | Universität der Künste, Germany

Peter Gosling | Newcastle University, United Kingdom

Klaus-Michael Koch | Hightex, Germany

Sebastian Koch | Koch membranes, Germany

Nikolai Kugel | arch22, Germany

Benson Lau | University of Westminster, United Kingdom

Julian Lienhard | str.ucture, Germany

Josep Llorens | Universitat Politècnica de Catalunya, Spain

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Claudia Marano | Politecnico di Milano, Italy

Marijke Mollaert | Vrije Universiteit Brussel, Belgium

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Giorgio Novati | Politecnico di Milano, Italy

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Andrea Ratti | Politecnico di Milano, Italy

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Bernd Stimpfle | formTL, Germany

Natalie Stranghöner | Universität Duisburg-Essen, Germany

Martin Tamke | Royal Danish Academy of Fine Arts, Denmark

Patrick Teuffel | Eindhoven University of Technology, The Netherlands

Jean-Christophe Thomas | Université de Nantes, France

Jörg Uhlemann | Universität Duisburg-Essen, Germany

Alessandra Zanelli | Politecnico di Milano, Italy

Walter Zech | Econ, Germany



## Monday, 3 June

Registration & Welcome ① 8:30 AM

**SOFT STRUCTURES** ①  
Chairs: Marijke Mollaert, Bernd Stimpfle

Plenary session 9:30 - 11:15 AM

Coffee Break 11:15 - 11:30 AM

Keynote lectures 11:30 - 1:00 PM

Introduction to the Exhibition 1:00 - 1:10 PM

Lunch Break ⑥ 1:10 - 2:00 PM

Parallel sessions ③a ③b 2:00 - 5:40 PM

**MOVEMENT IN LIGHTWEIGHT STRUCTURES**

Chairs:  
Natalie Stranghöner,  
Martin Tamke

Demountable structures

③a 2:00 - 3:40 PM

**RECENTLY BUILT LIGHTWEIGHT STRUCTURES**

Chairs:  
Josep Llorens,  
Jean-Christophe Thomas

Pneumatic structures  
Air-supported structures

③b 2:00 - 3:40 PM

Coffee Break ⑥ 3:40 - 4:00 PM

**Kinetic, Kinematic and Foldable structures**

③a 4:00 - 5:40 PM

**Complex/ Hybrid structures**

③b 4:00 - 5:40 PM

Field Trip 6:00 - 7:30 PM

## Tuesday, 4 June

Welcome ① 8:45 AM

**SOFTENING THE ENVIRONMENT** ①  
Chairs: Carol Monticelli, Peter Gosling

Plenary session 9:00 - 11:15 AM

Coffee Break 11:15 - 11:30 AM

Keynote lectures 11:30 - 1:00 PM

Exhibition / Poster session ⑤ 1:00 - 2:00 PM

Lunch Break ⑥ 1:00 - 2:00 PM

Parallel session ③a ③b 2:00 - 3:40 PM

**ENVIRONMENTAL COMPATIBLE MEMBRANE STRUCTURES \***

Chairs: Carol Monticelli,  
Petr Vegh

③a 2:00 - 3:40 PM

**MATERIAL ANALYSIS AND PERFORMANCE ASSESSMENT**

Chair: Peter Gosling

③b 2:00 - 3:40 PM

\* Joined IASS WG18 seminar

Coffee Break ⑥ 3:40 - 4:00 PM

**OPEN TALK session** ②  
on the main topics of the  
TensiNet Working Groups 4:00 - 5:30 PM  
Chairs: Stefania Lombardi, Bernd Stimpfle

TensiNet Partner Meeting 6:00 - 7:00 PM

Social Dinner 8:30 PM

## Wednesday, 5 June

Welcome ① 8:45 AM

**SOFT SKINS** ①  
Chairs: Alessandra Zanelli, Julian Lienhard

Plenary session 9:00 - 11:15 AM

Coffee Break 11:15 - 11:30 AM

Keynote lectures 11:30 - 1:00 PM

Exhibition / Poster session ⑤ 1:00 - 2:00 PM

Lunch Break ⑥ 1:00 - 2:00 PM

Parallel sessions ③a ③b 2:00 - 5:40 PM

**ADAPTIVITY OF MEMBRANE-BASED SKINS**

Chairs: Adriana Angelotti,  
Benson Lau

Extreme living +  
Design & Simulation

③a 2:00 - 3:40 PM

**ADAPTIVITY OF TRANSPARENT FOIL-BASED SKINS**

Chairs: Giorgio Novati,  
Monika Rychtáriková

Extreme living +  
Design & Simulation

③b 2:00 - 3:40 PM

Coffee Break ⑥ 3:40 - 4:00 PM

**Thermal & acoustic comfort**

③a 4:00 - 5:40 PM

**Thermal & acoustic comfort**

③b 4:00 - 5:40 PM

Conclusion 6:00 - 6:30 PM

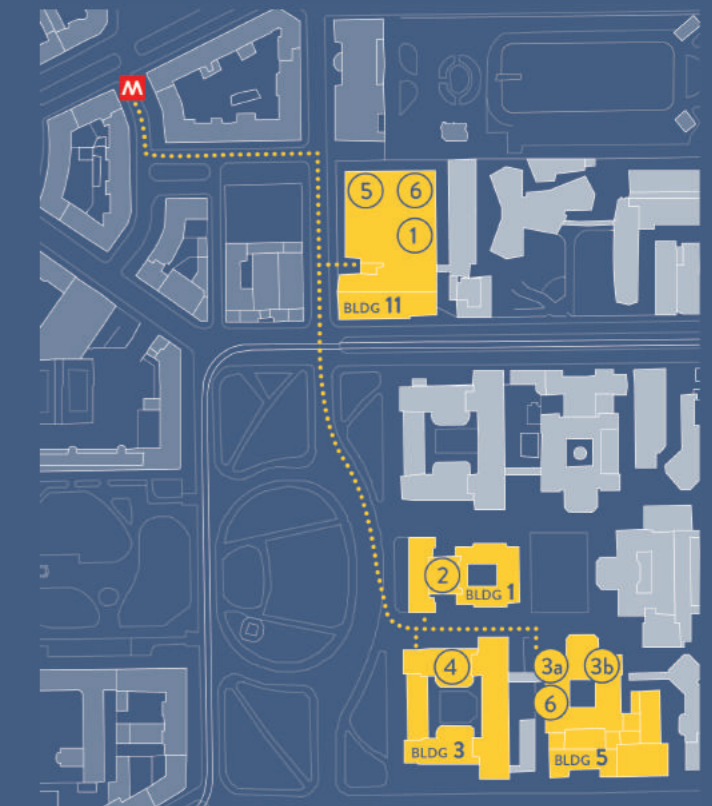
## Participate in the TensiNet Symposium 2019

Call for Papers | deadline: 31 October, 2018

Call for Exhibiting Posters | deadline: 31 October, 2018

Call for Exhibiting Prototypes | deadline: 31 Jan, 2019

Early bird registration | until: 28 February, 2019



- ① Aula E. N. Rogers | Building 11
- ② Aula Magna | Building 1
- ③a Aula Beltrami | Building 5
- ③b Aula Castigliano | Building 5
- ④ Aula De Donato | Building 3
- ⑤ Guido Nardi Exhibition room | Building 11
- ⑥ Lunch Area | Building 5, Building 11