

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

tensinet2019info@polimi.it

#softeningthehabitats

Organised by:

TensiNet



POLITECNICO
MILANO 1863

TEXTILESHUB

TS
19

**THE 6TH TENSINET
SYMPOSIUM 2019
MILAN, ITALY
3-5 JUNE**

SOFTENING THE HABITATS

SUSTAINABLE INNOVATION IN MINIMAL MASS STRUCTURES AND LIGHTWEIGHT ARCHITECTURES

The 6TH TensiNet Symposium 2019, 3-5 June, Milan – Italy

Softening the Habitats:

Sustainable Innovation in Minimal Mass Structures and Lightweight Architectures

The last few decades have brought numerous significant innovations of materials, design and computational tools, as well as construction detailing and installation methodologies.

As a consequence, membrane construction has now an established place in the field of Architecture.

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

It will focus on how building technologies on membranes are being more and more directed towards achieving a smaller environmental footprint and obtaining more resilient cities and landscapes.

The Exhibition

The exhibit will start one week prior to the conference and it will show an exhaustive picture of responsibilities at various levels – academia, industries, practitioners, construction sector and standards – on tensile, membrane and foil constructions in Europe and worldwide.

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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Roberto Canobbio | Canobbio Textile Engineering, Italy

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John Chilton | University of Nottingham, United Kingdom

Jan Cremers | Hochschule für Technik, Germany

Lars De Laet | Vrije Universiteit Brussel, Belgium

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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

Stefania Lombardi | Canobbio Textile Engineering, Italy

Claudia Marano | Politecnico di Milano, Italy

Marijke Mollaert | Vrije Universiteit Brussel, Belgium

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Arno Pronk | Eindhoven University of Technology, Holland

Andrea Ratti | Politecnico di Milano, Italy

Monika Rychtáriková | KU Leuven, Belgium

Franck Schoefs | Université de Nantes, France

Bernd Stimpfle | formTL, Germany

Natalie Stranghøner | Universität Duisburg-Essen, Germany

Martin Tamke | Royal Danish Academy of Fine Arts,

Denmark

Patrick Teuffel | Eindhoven University of Technology, Holland

Jean-Christophe Thomas | Université de Nantes, France

Jörg Uhlemann | Universität Duisburg-Essen, Germany

Alessandra Zanelli | Politecnico di Milano, Italy

Walter Zech | Eccon, 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
Chairs: Stefania Lombardi, Bernd Stimpfle
4:00 - 5:30 PM

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

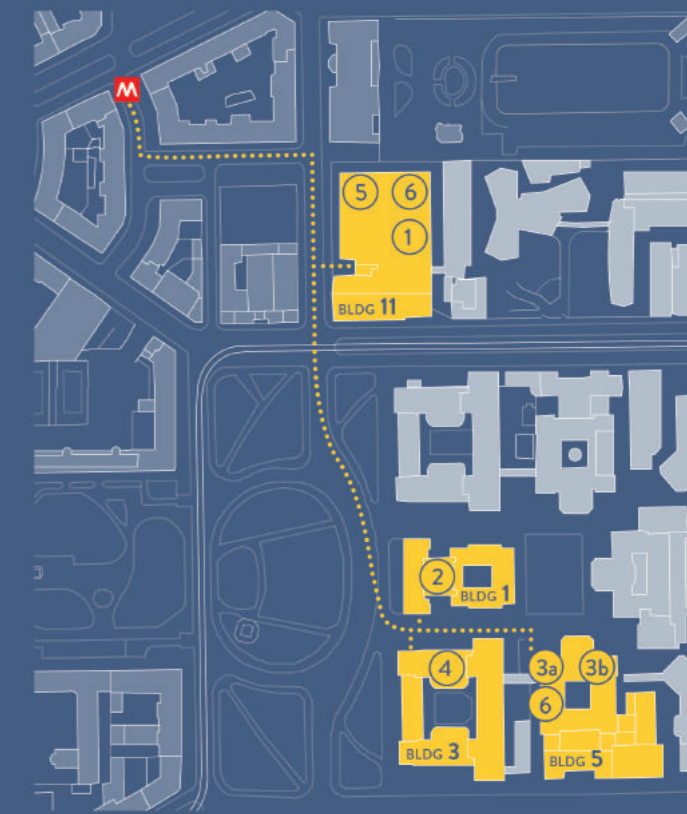
Thermal & acoustic comfort
③a 4:00 - 5:40 PM

Thermal & acoustic comfort
③b 4:00 - 5:40 PM

Conclusion 6:00 - 6:30 PM

Participate to the TensiNet Symposium 2019!

Call for Papers | deadline: 31 October, 2018
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