

TensiNet Symposium 2019

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

Politecnico di Milano
3-5 June 2019
Milan – Italy

Symposium Secretariat
TS2019 Organizing Committee

Politecnico di Milano

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TensiNet association

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

SOFTENING THE HABITATS

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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 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 seminar advancements. Furthermore, an Open Talk will be the chance to spread and take feedback from sharing the advancements of the TensiNet Working Groups.

The INTENSION exhibition

As a natural counterbalance of the conference, the exhibition entitled IN.TENSION launches two exhibiting modes, one for posters and one for prototypes.

The **IN.TENSION poster exhibition** aims at presenting cutting-edge projects, techniques and materials that have the potential of changing the construction and lifespans of membrane structures for a more sustainable built environment. In a way, the poster exhibition is a collection of projects that still remain an intention, not yet disseminated not yet common, but focusing on the future. Instead, the **IN.TENSION prototype exhibition** highlights the latest research advances in the field of tensile construction systems and materials by means of a collection of mock-ups.

The conference will take place from the 3rd to the 5th, IN.TENSION from the 3rd to the 15th. The both of them will be held at the Politecnico di Milano in June 2019.

Scientific Committee

Adriana Angelotti | Politecnico di Milano, Italy

Paolo Beccarelli | University of Nottingham, United Kingdom

Katja Bernert | Low & Bonar, Germany

Heidrun Bögner-Balz | DEKRA, Germany

Andrea Campioli | Politecnico di Milano, Italy

Roberto Canobbio | Canobbio Textile Engineering, Italy

Valter Carvelli | Politecnico di Milano, Italy

John Chilton | University of Nottingham, United Kingdom

Jan Cremers | Hochschule für Technik, Germany

Lars De Laet | Vrije Universiteit Brussel, Belgium

Günther Filz | Aalto University, Finland

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 | structure, 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

Carol Monticelli | Politecnico di Milano, Italy

Giorgio Novati | Politecnico di Milano, Italy

Arno Pronk | Eindhoven University of Technology, The Netherlands

Andrea Ratti | Politecnico di Milano, Italy

Monika Rychtáriková | KU Leuven, Belgium

Franck Schoefs | Université de Nantes, France

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

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

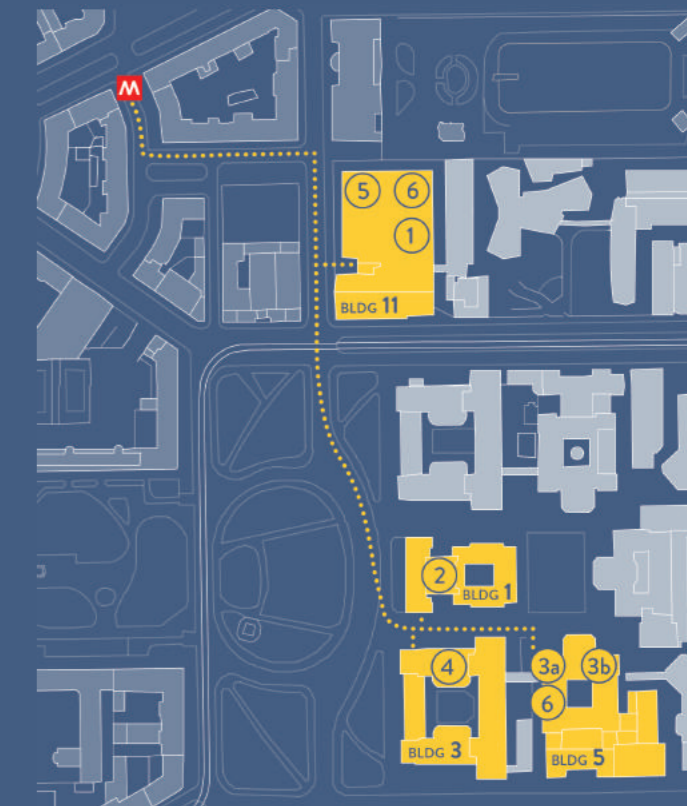
Participate in the TensiNet Symposium 2019

Call for Papers | deadline: 20 November, 2018

Call for Posters | deadline: 15 November, 2018

Call for Prototypes | deadline: 31 January, 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