The main theme of the TensiNet Symposium 2007 will be Ephemeral Architecture and in particular, the relationship between membrane architecture and the concept of time. Ephemeral Architecture describes tensile structures built with lightweight membranes, which respond to the principles of firmness, commodity and delight, distancing themselves from the classical interpretation embodied by everlasting, monumental architecture.

The objective of the Symposium is to emphasise how the relationship between membrane architecture and the concept of time is constantly evolving, giving new life to all ephemeral architectural expressions. Ephemeral Textile Architecture not only responds to the needs of contemporary society for flexible and lightweight building, but is also the result of an ecological design strategy, where temporary constructions can be disassembled after use, leaving future generations free to decide how to use those spaces again.

Organized by:
TensiNet
The Communication Network for tensile structures in Europe
Politecnico di Milano
BEST Department
Faculty of Architecture and Society

Organising Committee:
Mike Barnes
Heidrun Bögner-Balz
Andrea Campioli
John Chilton
Françoise Fournier
Josep Llorens
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Anna Mangiarotti
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Politecnico di Milano
University of Lincoln
Ferrari
Universitat Politecnica de Catalunya
Canobbio
Vrije Universiteit Brussel
Politecnico di Milano
Politecnico di Milano

Welcome to TensiNet Symposium 2007

Theme

Exhibition
The exhibition will be held in the “Guido Nardi Exhibition room” from 10th to 20th April.

Proceedings
The book of proceedings consists of 1 volume containing all presented papers, it is included in the early and full conference fee. Registered students can buy the book of proceedings on the website http://www.tensinet2007.promoest.com. Reduced price for the volume is 20 €.

Registration desk
In the hall of Faculty of Architecture, building ED11, 2 Ampère Street. Congress rooms, Exhibition room, Internet connections and Coffee break are situated in the ED11, Campus Leonardo, Politecnico di Milano.
17th April 2007 pm - parallel session I

Building & Environment Session: Environment: learning from failures
Chairman: Peter D. Gosling
10:00 L. Gruendig, P. Singer, D. Stroebel, University of Liverpool, UK
Industrially appropriate loading vector and surface prestress generation
11:30 J. Hennclicke, ILK Stuttgart, D
Lightweight natural design approach
12:00 H. Duerr, TU Muenchen, D
Ephemeral structures, in nature, art and architecture
13:00 A. Campoli, A. Mangiarotti, A. Zanelli, Politecnico di Milano, I
Renewing membrane application in Italian context
14:00 Conclusions
15:00 Lunch Break

The conference dinner will take place on Tuesday 17 April at 20.00 o'clock in the "Carlsberg ÖL". Tickets should be bought upon registration on www.tensile2007 promotec.org

Entrance: Bastioni di Porta Nuova 9/11,
via Solferino 56 Milano.

Discussion

17.00 Exhibition Opening: "Guido Nardi Exhibition Room"
Introduction: Alessandra Zanelli
17.30 Coffee Break

17th April 2007 pm

Plenary session: new interests in textile architecture
Chairman: Werner Hebel
9.00 R. Blum, Lab. Blum Stuttgart, D
J. Chilton, University of Lincoln, UK
T. Devulder and L. Del Nin, Italy
Tailoring the environmental properties of membrane construction
9.25 P. D. Gosling, University of Newcastle, UK
B.N. Bridgens, Anp, UK
Textile Material Development for Textile Construction
9.50 T. Stagmeier, H. Planck, TV Institut fuer Textil, D
Chairman: Marijke Mollaert
10.15 F. Fournier, Ferrari, F
Chairman: lothar Grundig
10.45 Coffee Break

Plenary session: membrane architecture and thermal behaviour
Chairman: Bernd Stimpflie
11.15 P. Decock, F. Descamps, M. Moellaert, Vrije Universiteit Brussel, B
Comfort assessment of spaces enclosed by translucent membranes: from material properties to whole building simulation
11.40 R. Blum, H. Bögner-Balz, J. Kuhnlein, Lab. Blum Stuttgart, D
Building Physics of lightweight structures: theory, measurements and numerical analysis
12.05 A. Hessop, Architectural Materials, UK
Membrane architecture: developments in thermal Insulation
12.30 G. Schmidt, tml, D
Multi-layer Insulated Membrane Roof / ETFE cushions and their thermal and climatic behaviour
13.00 Lunch Break

17th April 2007 am

Building & Environment Session: textiles and new applications
Chairman: Helmut Bögner-Balz
10.15 H. Toyota, Taiyo Kogyo, JP
New 1002 materials for membranes
11.30 I. Bergmann, C. Schatzke, Faculty of Architecture RYTH Aachen, D
Membrane structures made in textile reinforced concrete
12.50 A. Lamacchia, University of Florence, I
Flexible facades: building façade redevelopment as the mean of textil-screens
16.10 F. Broglini, Blue Office, CH
Air as material for temporary architecture
16.30 Coffee Break

New Materials & Applications Session: textiles and new applications
Chairman: Helmut Bögner-Balz
10.00 L. Gruendig, P. Singer, D. Stroebel, University of Liverpool, UK
Industrially appropriate loading vector and surface prestress generation
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The “Salone Internazionale del Mobile” will be held at the New Milan Fairgrounds in Rho from 18th to 23rd April. More information about related events at the registration desk. http://www.cosmit.it/tool/home.php

The “Galleria del Vento” is the building of the GVFM for aerodynamics tests, it is situated in the Bovisa Sud Campus of Politecnico di Milano. This laboratorio will be open during the conference for visiting tours. More information about registering at the registration desk. http://www.windtunnel.polimi.it/english/index.htm

Tourist tips
A leaflet with tourist information for the Milan metropolitan area can be found at the registration desk. http://www.turismo.comune.milano.it More information about getting around Milan on http://www.atm.mi.it/ATM/engl/