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.

Sessions are organised on the following topics:

- Ephemeral Architecture
- Tensile structures as lightweight structures and architecture of light
- Designing for lightweight structures
- Translucency and lightweight materials
- New developments and testing
- Textile architecture and thermal behaviour
- Tensile and textile architecture – learning from failures
- Textiles for flexible structures
- Textiles and new applications
- Textiles - the life cycle approach
- Analysis and form-finding studies for lightweight structures
- Textile and time: temporary and adaptable architecture; durability and recycling strategies

Organising Committee:
Mike Barnes (University of Bath), Heidrun Bögner-Balz (Labor Blum), Andrea Campioli (Politecnico di Milano), John Chilton (University of Lincoln), Françoise Fournier (Ferrari), Josep Llorens (Universitat Politecnica de Catalunya), Stefania Lombardi (Canobbio), Marijke Mollaert (Vrije Universiteit Brussel), Anna Mangiarotti (Politecnico di Milano) and Alessandra Zanelli (Politecnico di Milano)

Register on line: [www.tensinet2007.promoest.com](http://www.tensinet2007.promoest.com)
Further programme and other details are available at: [http://www.tensinet.com/](http://www.tensinet.com/)
For further information please contact: ephemeral.architecture@polimi.it

### 16th April 2007 am

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>8.45</td>
<td>Registration</td>
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<tr>
<td>9.30</td>
<td><strong>Welcome</strong>&lt;br&gt;Giulio Ballio, Rector of Politecnico di Milano&lt;br&gt;Pier Carlo Palermo, Dean of Faculty of Architecture and Society&lt;br&gt;Fabrizio Schiaffonati, Head of BEST Department</td>
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<tr>
<td>10.00</td>
<td><strong>Keynote</strong>&lt;br&gt;Robert Kronenburg, Chair of Architecture, University of Liverpool&lt;br&gt;Flexible architecture and tensile membranes</td>
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<td>10.30</td>
<td>Coffee Break</td>
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### 16th April 2007 pm

<table>
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<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>14.20</td>
<td>M R.H. Luchsinger, R. Crettol, Empa, CH&lt;br&gt;Synergetic Structures and Tensility®</td>
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<tr>
<td>15.00</td>
<td>A. Capasso, University of Naples Federico II, I&lt;br&gt;Light of lightness. Lightness to light.</td>
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<td>15.20</td>
<td>Coffee Break</td>
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### 16th April 2007 pm (continued)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>15.40</td>
<td>C.G. Brück, W. Dürbaum, Polymade-ITT, D&lt;br&gt;Transparent Material Technology</td>
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<tr>
<td>16.00</td>
<td>W. Rudorf-Witrin, Ceno-tec, D&lt;br&gt;From pvc to etfe: evolution of daylighting performances of textile architecture</td>
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<tr>
<td>16.20</td>
<td>S. Lehner, Foltec, D&lt;br&gt;Latest approaches to ETFE-cladding systems</td>
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<tr>
<td>16.40</td>
<td>H. Reiter, Coverflex, D&lt;br&gt;National Stadium, Beijing 2008</td>
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### Guido Nardi Exhibition Room

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<tr>
<th>Time</th>
<th>Session</th>
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<tr>
<td>17.00</td>
<td>Exhibition Opening&lt;br&gt;Introduction: Alessandra Zanelli</td>
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<td>17.30</td>
<td>Welcome Party</td>
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**TensiNet Symposium 2007 - Conference Programme**

**Ephemeral Architecture - Time and Textiles**

Politecnico di Milano, 16th - 18th April 2007
17th April 2007 pm

Rogers Room

Plenary session: New Materials & Applications Session: textiles and new applications
Chairman: Heidrun Bögner-Balz

14.30 H. Toyoda, Taiyo Kogyo, JP
New TiO2 materials for membranes

14.50 I. Bergmann, C. Schatzke, Faculty of Architecture RWTH Aachen, D
Lightweight structural systems made of textile reinforced concrete

15.10 A. Lamacchia, University of Florence, I
Facade stresses: building facade redevelopment through textile-screens

15.30 F. Broggi, Blue Office, CH
Air as material for temporary architecture

16.00 Coffee Break

IV Room

New Materials & Applications Session: textiles and LCA approach
Chairman: Françoise Fournier

16.20 M. Lavagna, Politecnico di Milano, I
Lightness and temporariness in life cycle assessment

16.40 R. Wehdorn-Roithmayr, P. Jurewicz, TU Wien, A
Towards life cycle knowledge of form-active structures

17.00 J. Tejera, Buró Arquitectura Textil Madrid, E
A lightweight structure, easily dismantled, and energetically self-sufficient

17.20 C. Langella, 2nd University of Naples, I
Bio-inspired textile materials and flexible films for sustainable design of ephemeral systems

17.40 Discussion

18th April 2007 am

Rogers Room

Plenary session: analysis and formfinding studies for lightweight structures
Chairman: Peter D. Gosling

9.00 R. Wagner, Münich University of Applied Science, D
Daily membrane structures versus high end membrane products

9.30 E. Moncrieff, Kurvenbau, D
Mesh independent specification of field intensity distribution for industrially appropriate loading vector and surface prestress generation

10.00 L. Gruendig, P. Singer, D. Stroebel, Technical University of Berlin, D
Formfinding and patternning of pneumatic structures: "Winter Bathing Ship", Berlin

10.30 S. Adriaenssens, Vrije Universiteit Brussel, B
Feasibility study of medium span spliced spline stressed membranes

11.00 Coffee Break

Rogers Room

Building & Environment Session: textiles for flexible structures
Chairman: Marijke Mollaert

11.00 Lighting and temporariness in life cycle assessment

11.30 J. Hennicke, Technical University of Berlin, D
Towards life cycle knowledge of form-active structures

12.00 L. Gruendig, P. Singer, D. Stroebel, Technical University of Berlin, D
Formfinding and patternning of pneumatic structures: "Winter Bathing Ship", Berlin

12.30 S. Adriaenssens, Vrije Universiteit Brussel, B
Feasibility study of medium span spliced spline stressed membranes

13.00 Coffee Break

Rogers Room

Plenary session: textiles and time: towards a new temporary architecture?
Chairman: Marijke Mollaert, Heidrun Bögner

11.30 J. Hennicke, ILEK Stuttgart, D
Title of lecture to be announced

12.00 H. Duerr, IMS, Anhalt University of Applied Sciences, Dessau, D
Ephemeral structures, in nature, art and architecture

12.30 A. Campioli, Politecnico di Milano, I
Renew membrane application in Italian context

13.00 Conclusions

13.20 Lunch Break