



# Textile Roofs 2014

The Nineteenth International Workshop on the Design and Practical Realisation of Architectural Membrane Structures

# Programme

Registration office will open on May 26<sup>th</sup> at 08:15 pm at the museums entry hall  
All workshop activities take place in the "Museum of Technology"  
Trebbiner Str. 9, 10963 Berlin; next to U-Bahn Gleisdreieck

## Monday, 26<sup>th</sup> May

- 09:00**      **Welcome**  
*Dr.-Ing. Bernd Stary*  
AcaMem - Berlin Academy of Arch. Membrane Structures  
*Prof. Dr.-Ing. Rosemarie Wagner*  
Karlsruhe Institute of Technology (KIT)
- 09:15**      **Introduction to the Topic and Overview**  
*Prof. Josep I. Llorens*  
University of Catalonia  
Barcelona, Spain  
**The Design of Tensile Architecture**  
*DI Dr. techn. Robert Roithmayr*  
formfinder GmbH  
Vienna, Austria  
**Computational Modelling of Lightweight Structures**  
*Dr.-Ing. Dieter Ströbel / Dipl.-Ing. Jürgen Holl*  
technet GmbH  
Stuttgart, Germany
- 11:30-13:00**      **Lunch Break**
- 13:00-17:00**      **Architects-Day**  
**Textile Forms: Lightweight Architecture and Membranes**  
**On Shapes, Forms and Structures**  
*Dipl.-Ing. Jürgen Hennicke*  
ILEK - University Stuttgart, Stuttgart, Germany &  
The Vienna University of Technology, Vienna, Austria  
**Light and Adaptable: Designing with Technical Textiles**  
*Prof. Marijke Mollaert*  
Vrije Universiteit Brussel  
Brussels, Belgium  
**MORE WITH LESS - Multiperformative Surfaces in Architectural Design**  
*Dipl.-Ing. Arch. Christian Sandor Tschersich*  
LAVA - Laboratory for Visionary Architecture, Berlin, Germany  
Karlsruhe Institute of Technology, Karlsruhe, Germany  
**World Cup Membrane Structures**  
*Dipl.-Ing. Arch. Ms. Lena Brögger, Mr. Martin Glass*  
gmp Architekten von Gerkan, Marg und Partner  
Berlin, Germany  
**Comparative Life Cycle Assessment of Texton ETFE and glass cladding systems for roof applications**  
*Dr. Carl Maywald*  
Vector Foiltec GmbH  
Bremen, Germany

**17:30 – 19:00**      **Special Guest Lecture**  
**Light Structures – With and Without Air**  
*Dipl.-Ing. Gerd Schmid*  
formTL, ingenieure für tragwerk und leichtbau GmbH  
Radolfzell, Germany

**subsequent**      **Barbecue together with the participants of the Architect-Day**

## Tuesday, 27<sup>th</sup> May

- 09:00**      **PRECONSTRAINT TX 30 : A New Generation of PRECONSTRAINT Flexible Composite Materials**  
*Ms. Francoise Fournier*  
Serge Ferrari S.A.S.  
La Tour-du-Pin, France  
**ETFE in China - An Overview**  
*Dipl.-Ing. Björn Beckert*  
seele covertex membranes Shanghai Co., Ltd.  
Shanghai, P.R. China  
**Theory and Design of Cable Nets**  
*Prof. Dr.-Ing. Rosemarie Wagner*  
Karlsruhe Institute of Technology (KIT)  
Karlsruhe, Germany  
**Rope and Steel Wire Mesh for Load-Bearing Structures: Planning, Assembly, Handling and Maintenance of Rope Systems**  
*Dipl.-Ing. Thomas Krieger*  
Carl Stahl GmbH - TENNECT  
Süßen, Germany
- 12:30-14:00**      **Lunch Break**
- 14:00-16:00**      **Afternoon Session**  
**Parallel strands:**
- **Physical Modelling Workshop**  
*Dipl.-Ing. Jürgen Hennicke, ILEK Stuttgart*
  - **Easy Modelling / Hands-on**  
*Dipl.-Ing. Ulrike Gründig-Tsoukalas, technet GmbH*
  - **Hands-on Formfinder Workshop**  
*DI Dr. techn. R. Roithmayr, formfinder GmbH*
  - **RStab 3D Modelling / Hands-on**  
*M. Eng. Andreas Niemeier, Ing.-Software Dlubal GmbH*
- 16:15**      **Leave for Berlin Sightseeing by tourboat**
- 19:30**      **Workshop Banquet at "Floating Lounge" next to Oberbaumbrücke**

## Wednesday, 28<sup>th</sup> May

- 09:00**      **Installation of Membrane Structures, Requirements and Accomplishment**  
*Dipl. Architekt Claudius Dangel*  
3dtext GmbH  
Berlin, Germany  
**Wind Loads on Fabric Roofs and Corresponding Dynamic Response**  
*Dipl.-Ing. Michael Buselmeier*  
Wacker Ingenieure  
Birkenfeld, Germany  
**Practical Aspects On-Site**  
*Mr. Matti Orpana*  
Tensotech Consulting  
Kokkola, Finland  
**Textile Facade for Tower on Maldives**  
*Ing. Arch. Zdeněk Hrnšal*  
ARCHTEX Ltd.  
Brno, Czech Republic
- 11:30-13:00**      **Lunch Break**
- 13:00-16:30**      **Afternoon Session 3**  
**Parallel strands:**
- **Physical Modelling Workshop**  
*Dipl.-Ing. Jürgen Hennicke, ILEK Stuttgart*
  - **Easy Modelling / Hands-on**  
*Dipl.-Ing. Ulrike Gründig-Tsoukalas, technet GmbH*
  - **Hands-on Formfinder Workshop**  
*DI Dr. techn. R. Roithmayr, formfinder GmbH*
  - **RStab 3D Modelling / Hands-on**  
*M. Eng. Andreas Niemeier, Ingenieur-Software Dlubal GmbH*
- Student's joint project week:**
- Presentation of results and discussion with participants**  
*Prof. Dr.-Ing. Rosemarie Wagner*  
Karlsruhe Institute of Technology (KIT)  
*Dipl.-Ing. Architekt Martin Glass*  
gmp Architekten von Gerkan, Marg und Partner  
*Dipl.-Ing. Stev Bringmann*  
3dtext GmbH
- 16:30**      **Closing**