



Textile Roofs 2014

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

Programme

Registration office will open on May 26th 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, 26th 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, 27th 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, 28th 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**