



Textile Roofs 2010

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

Programme

Registration office will open on June 3rd at 8:00 a.m. in the Main Building of the TU Berlin
All lectures are held in the Main Building of the Technical University Berlin at room H2036
The afternoon sessions are held at the Geodätenstand in the Technical University Berlin

Thursday, 3rd June

09:00 Welcome; **Prof. Dr.-Ing. Dr. h.c. Lothar Gründig**
Technical University Berlin, Germany

09:15 Design Principles
Prof. Josep I. Llorens
University of Catalonia
Barcelona, Spain

Architects work in Membrane Projects
Mr. Horst Dürr
IF Group
Reichenau, Germany

Membrane Lightweight Structures
DI Dr. techn. Robert Wehdorn-Roithmayr
WEHDORN ARCHITEKTEN Ziviltechniker GmbH
Vienna, Austria

Computational Modelling
Dr.-Ing. Dieter Ströbel
technet GmbH
Stuttgart, Germany

12:30-14:00 Lunch break

14:00-17:00 Afternoon Session 1 (Geodätenstand, 6th floor)

Three parallel strands:

- Hands-on physical modelling workshop
- Hands-on computational modelling workshop
- Specialist presentations

– Easy Modelling and Introduction
Dipl.-Ing. Ulrike Gründig-Tsoukalas,
Dipl.-Ing. Jürgen Holl
technet GmbH, Germany

– Engineering Software for Structural Analysis and Design
Mr. Walter Rustler
Ing.-Software Dlubal GmbH, Tiefenbach, Germany

19:30 **Special Guest Lecture** (Room H 2036)

Visions - Ideas - Projects
Un hommage à Frei Otto

Jürgen Hennicke
University Stuttgart & TU Vienna
Stuttgart, Germany / Vienna, Austria

Friday, 4th June

09:00 Projectpresentation: Expo Axis (Expo 2010 Shanghai)
Dipl.-Ing. Dirk Richter
Büro für Leichtbau – lightweight design
Radolfzell, Germany

Composite Membrane and Sustainable Development
Ms. Francoise Fournier
Ferrari S.A.
La Tour-du-Pin, France

timber and membranes – it does not always have to be steel
Mr. Björn Briegert / Mr. Roger Burri
HP Gasser AG MEMBRANBAU / neue Holzbau AG
Lungern, Switzerland

Retractable Roofs - Material Choice and Design
Project sample: Athens Heart Shopping Center
Mr. Dirk P. Emmer / Dipl.-Ing. Jörg Tritthardt
Vector Foiltec GmbH / Büro für Leichtbau
Tüßling / Radolfzell, Germany

Wind and Snow Loads on Membrane Roofs
Dipl.-Ing. Michael Buselmeier
Wacker Ingenieure
Birkenfeld, Germany

12:30-14:00 Lunch Break

14:00-16:00 Afternoon Session 2 (Geodätenstand, 6th floor)

Three parallel strands:

- Hands-on physical modelling workshop
- Hands-on computational modelling workshop
- Specialist presentations:

– Natural Composites: Measurement of Local Elastic Properties
Dr.-Ing. Michael Kroeger, technet GmbH, Germany

– Estimation of usability of different materials
Hands-on presentation
Mr. Dirk P. Emmer
Vector Foiltec GmbH, Tüßling, Germany

16:30 City Sightseeing Cruise by Tour boat

19:45 Workshop Banquet

Saturday, 5th June

09:00 Design of Membrane Structures
Prof. Dr.-Ing. Rosemarie Wagner
Karlsruhe Institute of Technology (KIT)
Karlsruhe, Germany

Tensile Structures - A practical approach
Mr. Rakesh Aggarwal
Mansi Membrane Structures
Mumbai, India

From Tent Culture to Textile Architecture
M.Sc. Architect Ismail Sariay
Arch-Art Architectural Design and Application Group
Izmir, Turkey

Lightweight Architecture
Jürgen Hennicke
University Stuttgart & TU Vienna
Stuttgart, Germany / Vienna, Austria

12:30-14:00 Lunch Break

14:00-16:00 Afternoon Session 3 (Geodätenstand, 6th floor)

Two parallel strands:

- Hands-on physical modelling workshop
- Hands-on computational modelling workshop

– Discussion: Hands-on physical model projects
Prof. Josep I. Llorens, Jürgen Hennicke

16:00 Close