



WORKSHOP

THIN GLASS

SUMMARY

Thin glass is a brand new possibility for architectural applications. Due to the enormous flexibility of thin glass movable and adaptive systems can be realized. This opens a wide new range of possibilities. The workshop will give an overall introduction about this material.

This work shop addresses architects and engineers and after this workshop the participants will have a lot more information about thin glass.

KEY POINTS

- the material for thin glass and how it can be produced
- the determination of strength of thin glass
- how to design thin glass
- possible applications for thin glass
- adaptive systems in general
- adaptive systems made from thin glass

Will be given in a in different lectures from special invited speakers.
After this lectures and lunch an interactive workshop will be held.

Main topics of the afternoon section are

- a brain storming with the participants about possible applications
- with the support of the speakers the participants will design a small project and make a simple model to feel how a thin glass structure works.

TIMETABLE 25TH OF JUNE

09.00 Introduction of the speakers and the participants

12.00 Lunch

15.00 End

Duration: 6 hours



ORGANISERS



JURGEN NEUGEBAUER, FH JOANNEUM

After his study at the University of Technology in Graz he worked in an office for civil engineering. 2005 he completed his PhD at the same University. 2007 he accepted the offer of the University of Applied Science FH - Joanneum as a lecturer and became 2012 a professor. 2016 he started as the leader the research project "Josef Ressel Centre for thin glass technology for structural glass applications".



CHRISTIAN LOUTER, TECHNICAL UNIVERSITY DELFT

Christian Louter is Professor of Building Construction at the Technische Universität Dresden (TU Dresden). He obtained his PhD from Delft University of Technology (TU Delft) in 2011 on the topic of Structural Glass and has worked at École Polytechnique Fédérale de Lausanne (EPFL) and TU Delft before joining TU Dresden in 2019. Additionally, Christian is an Editor-in-Chief of the journal Glass Structures & Engineering and an organizer of the Challenging Glass conference series.



MICHEL PRASSAS, CORNING

Michel Prassas graduated in Materials science and technology from the Institute of Science and Engineering in Montpellier, France in 1978 and obtained his PhD degree in Solid State Physics from the same institution in 1981. He joined Corning in 1982. Michel was involved in research and development programs for wide range of specialty glass products including photochromic, high refractive glass, broad bandwidth materials for optical amplification and materials for integrated optics. Since 2004 he is in charge of New Business Opportunities in the Europe and part of the Corporate Emerging Innovation Group. In addition he serves as a member to the Editorial Board of the Journal of Sol-Gel Science and Technology and he is Chief Series Editor at Springer in "Advances in Sol-Gel Derived Materials and Technologies"



GORDON NEHRING, BUNDESWEHR INSTITUTE OF CONSTRUCTION ENGINEERING

Gordon Nehring, born in 1982 in Magdeburg, studied civil engineering at the University of German Armed Forces in Munich with a specialisation in structural engineering. Gordon received his Ph.D. on the topic 'Design and form finding of cold bent shell structures of thin glass' at the University of German Armed Forces in Munich under the supervision of Univ.-Prof. Dr.-Ing. Geralt Siebert in the end of 2018. He investigated the potentials of use of cold bent thin glass for activating of additional load bearing capacity (as a spatial load bearing element). In addition, Gordon is Teacher on Building Material Technology and Design Structures at the Bundeswehr Institute of Construction Engineering in Ingolstadt.



GLASS PERFORMANCE DAYS 2019
JUNE 26-28, TAMPERE FINLAND



STEPHEN SELKOWITZ, AFFILIATE, LAWRENCE BERKELEY NATIONAL LABORATORY (LBNL), LECTURER, UC BERKELEY DEPARTMENT OF ARCHITECTURE

Selkowitz is recently retired as Senior Advisor for Building Science, LBNL and is now a consultant and advisor to global building industry clients. He is an internationally recognised expert on sustainable design and high performance green buildings serving as an advisor to government and R&D teams in Europe and Asia, and an expert on advanced glazing and window technologies, façade systems, daylighting designs and integrated building solutions. He is currently teaching a graduate seminar at UC Berkeley Department of Architecture on Adaptive Facades.