

# 5th Workshop on structural analysis of lightweight structures



# Program Mutters, October 18, 2018



09:00 – 09:30 Registration

09:30 – 09:45 Welcome

## Morning

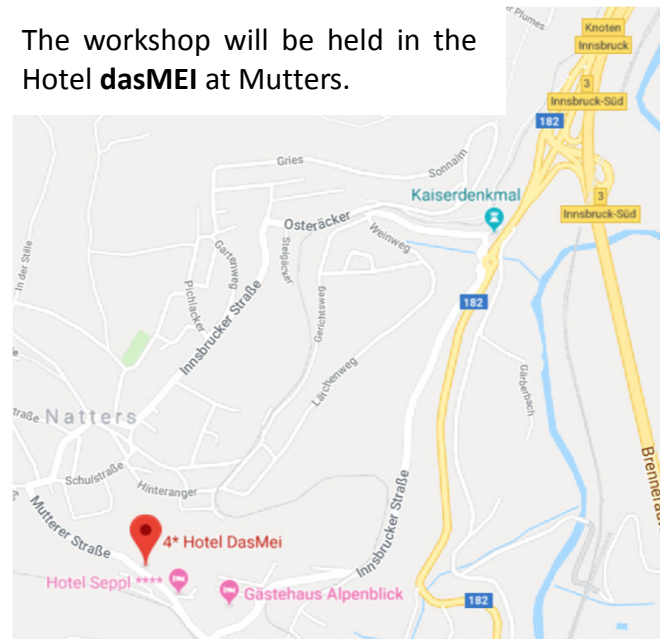
- 09:45-10:15 **Design Criteria for wind-loaded structures beyond Eurocode**  
*D. Straub (Technical University Munich)*
- 10:25-10:55 **3D-LightTrans – Large scale manufacturing technology for high performance lightweight 3D multifunctional composites**  
*M. Hörlesberger (Austrian Institute of Technology)*
- 11:05-11:35 **Stochastic Fourier integral operators for parameter estimation and damage detection**  
*M. Schwarz (University of Innsbruck)*
- 11:40-12:00 **Multiscale model for braid-reinforced polymers I: Elastic properties and application to coil spring**  
*Marc Luger (University of Innsbruck)*
- 12:05-12:25 **Multiscale model for braid-reinforced polymers II: Extension to viscoelastic properties**  
*Ulrich Hofer (University of Innsbruck)*
- 12:30-13:30 **Lunch Break**

## Afternoon

- 13:35-14:05 **The potential of Insitu Laser-AFP for thermoplastic composites for high performance structures**  
*Sebastian Nowotny (DLR -German Aerospace Center)*
- 14:10-14:30 **An approach towards an optimal, robust design of lightweight structures**  
*Martijn Schmeetz (INTALES GmbH)*
- 14:35-14:55 **Optimization of a finite element model for a lightweight structure**  
*Thomas Zwanowetz (University of Innsbruck)*
- 15:00-15:20 **Stochastic parameter calibration in a finite model for a lightweight structure**  
*Daniel Sirianni (University of Innsbruck)*
- 15:25-16:00 **Coffee Break**
- 16:00-16:20 **On the influence of changing snow properties onto the structural behaviour of a snowboard undergoing a carved turn**  
*Benoit Caillaud (University of Innsbruck)*
- 16:25-16:45 **Mission To The Moon**  
*Jürgen Brandner, Manuel Schleiffelder (PTScientists GmbH)*

## VENUE

The workshop will be held in the Hotel **dasMEI** at Mutters.



### Arrival:

By car: Highway A13, direction Brenner / Italy, exit Innsbruck-Süd, direction Mutters

By public transport: Train until Innsbruck main station, then change to the tram line "STB" (direction Fulpmes or Kreith)

## CONTACT

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