

## Awards for Modelling and Simulation of Wind Turbines and Wind Tunnel Testing

**The foundation Stiftung Maurer Söhne awarded two Students of the Technical University Munich**

Munich. The foundation "Stiftung Maurer Söhne" awarded the MSc thesis of Judith Hess and the PhD thesis of Máté-Tamás Péntek in the fields of structural dynamics and technical mechanics in summer 2024. The foundation Stiftung Maurer Söhne awards every year the most outstanding PhD, MSc and BSc theses in the field of technical dynamics.

In 2024 two excellent R&D works were awarded the prize foundation Stiftung Maurer Söhne of total € 2,000.

Judith Hess received the prize money of € 1,000 for her MSc thesis "Virtual Sensing of Wind Turbine Tower Loads using Kalman Filtering". The topic of her thesis was the model-based state and fatigue load estimations of wind turbines. The MSc thesis was supervised by Prof. Dr. Eng. Gerhard Müller of the Technical University of Munich (TUM).

Máté-Tamás Péntek received the same prize money for his PhD thesis "Method Development for the Numerical Wind Tunnel in Applied Structural Engineering". In his PhD thesis, he combined CFD and structural dynamics modelling to simulate wind channel testing. Prof. Dr. Eng. Kai-Uwe Bletzinger of TUM supervised the PhD thesis.

The prize winners were selected by the prize committee of the Department Civil and Environmental Engineering (CEE) of TUM School of Engineering and Design. The prizes were handed over on July 5 on the CEE Department Day.

Universities are obliged to focus on project-related research due to their limited budget. The industry commonly aims at product development. In contrast, basic research shall be free of development goals and independent of potential economic benefits. Therefore, the foundation Stiftung Maurer Söhne aims at supporting R&D projects at the interface of civil and mechanical engineering.

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Prize winner Judith Hess (middle), Prof. Dr. Eng. Kurosch Thuro (left, TUM) and Dr. Eng. Felix Weber (Foundation).

*Photo: TUM*



Prize winner Máté-Tamás Péntek (middle), Prof. Dr. Eng. Kurosch Thuro (left, TUM) and Dr. Eng. Felix Weber (Foundation).

*Photo: TUM*

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### Information on Stiftung Maurer Söhne

In January 2007, the company members of Maurer Söhne GmbH & Co. KG Messrs. Hans and Peter Beutler and Ms. Ursula Grill, established the charitable foundation Stiftung Maurer Söhne based in Munich. The Foundation Maurer Söhne aims at supporting R&D projects at Technical Universities and independent Research Centres in the fields of Civil and Mechanical Engineering.

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