

Awards for Vibration Attenuation by Usage of Gabion Wall and TMD Optimization

The Stiftung Maurer Söhne awarded BSc and MSc Students of the Technical University Munich

Munich. The Stiftung Maurer Söhne awarded the BSc thesis of Simon Deutrich and MSc thesis of Jonas Hillenbrand both of which dealing with structural vibration problems. The Stiftung Maurer Söhne awards every year the most outstanding BSc and MSc theses in the field of technical dynamics.

In 2021 two excellent R&D works were awarded the prize Stiftung Maurer Söhne of total 2.000 €.

Simon Deutrich received the prize money of 1.000 € for his BSc thesis investigating the vibration reduction efficiency of gabion walls. For this research he efficiently combined the methods of integral transformation and finite element modelling. The BSc thesis was supervised by Prof. Dr. Eng. Gerhard Müller und Julian Freisinger of the Technical University of Munich (TUM).

Jonas Hillenbrand received the same prize money for his MSc thesis dealing with the optimization of Tuned Mass Dampers (TMDs) adopting the adjoint sensitivity analysis method and applying the optimization tool to the design of TMDs for tall chimneys. The MSc thesis was supervised by Prof. Dr. Eng. Kai-Uwe Bletzinger und Martin Fußeder of the Technical University of Munich.

The prize winners were selected by the Department of Civil, Geo and Environmental Engineering of the Technical University of Munich. Because of the Corona crises the prize could not be handed over at TUM. Instead, MAURER invited the prize winners with their supervisors for a talk on their research and handed over the prizes.



Prize winner Simon Deutrich (middle), Prof. Dr. Eng. Gerhard Müller (TUM, left) and Dr. Eng. Felix Weber (Foundation, right).

picture: MAURER



Prize winner Jonas Hillenbrand (middle), Prof. Dr. Eng. Kai-Uwe Bletzinger (2nd left), Martin Fußeder (left), PD Dr. Eng. Roland Wüchner (in front), Johann Distl (2nd right) and Dr. Eng. Felix Weber (Foundation, right).

picture: MAURER

Kontakt für die Presse

MAURER SE

Judith Klein, Leitung Marketing & Kommunikation
Frankfurter Ring 193, 80807 München
Telefon: 089 32394-159
Fax: 089 32394-306
E-Mail: j.klein@maurer.eu.



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 Stiftung Maurer Söhne aims at supporting R&D projects at the interface of civil and mechanical engineering.

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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 Stiftung 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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