

Dear colleagues, research partners, and everyone interested in research at TU Graz,



Horst Bischof
Vice Rector for Research

Oliver Wolf

we have still not put Covid-19 behind us unfortunately, and we are still not in full operation. But of course, we all hope that the pandemic will come to an end sooner rather than later.

As far as research is concerned, however, we have already largely achieved "normality". In this issue of TU Graz *research* you will

find a number of examples of successes from TU Graz. We report on the new brake test rig the most modern and innovative in Europe. It will open up completely new possibilities for us in the rolling stock sector. We also present another infrastructure, the recently acquired Micro-CTs. These devices were acquired as part of an FFG infrastructure grant and will offer many researchers (primarily from the materials sciences) completely new possibilities.

The main theme of this issue is dedicated to sustainability. As you know, Graz University of Technology (TU Graz) was the first university to set itself the ambitious goal of climate neutrality by 2030. Sustainable construction plays a very decisive role here. This issue of TU Graz *research* places the research of the newly founded research centre dedicated to this topic in the spotlight. Numerous examples show the outstanding research dedicated to this topic at TU Graz. In doing so, we want to make one contribution (among many) to tackling climate change. One thing is absolutely clear to me, apart from behavioural changes of each individual, a solution to this problem is only possible through innovation and research.

I hope you will also find some time to read the interesting articles in this issue of TU Graz *research*. I am proud of the multifaceted research we undertake at TU Graz. I wish you and your families a relaxing summer.

Horst Bischof

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Concrete printing

At the Institute for Structural Design at TU Graz, researchers have been working on and with a 3D printer that prints components from concrete for several years. The idea behind it: To be able to save concrete by means of targeted structures and thus reduce the impact on the environment.

Lunghammer – TU Graz

