



MOBILITY & PRODUCTION

Fields of Expertise TU Graz

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Source: Lunghammer – TU Graz

Rudolf Pichler



Industry and related business is currently suffering from a time of irritation, unclear perspectives and hesitation.

These days, we too often hear about workers being laid off, bankruptcies and other signs of an economy in fall. As a consequence of this, industry is presently disinclined to form alliances with and make contributions to universities. The major question now is: should science mimic the same dynamics of anxiety and paralysis as industry? The answer is a definite no! Times of recession are the best phases to make time for further education and for thinking about the future, because one thing is clear: when the

order books of industry are full, nobody is willing to hear about future technologies. This means we have an opportunity to prepare our common future now! The future of industry is mainly in innovation and this depends on the input of universities. So we as a university undoubtedly do have the clout to encourage industry, to create feasible concepts and to assist industry in making good ideas for the future viable. We are happy to show an example of this in the current issue of our research magazine, namely how decarbonisation can work even in a highly traditional working environment. So please enjoy the report by Susanne Lux and stay deeply future oriented. ●

Susanne Lux, Viktor Hacker

Iron and Hydrogen – A Perfect Match

Iron and hydrogen, the first a typical heavy metal, the second a classical non-metal – two elements that could not be more different at first glance; and yet they form a perfect team giving access to a decarbonised future.

Iron – the first – has been the most important raw material since the iron age. The amount of pig iron produced is more than ten times greater than that of all other metals combined. In short, iron and steel are an integral part of our daily lives. However, their production is responsible for a major part of the industrial sector's CO₂ emissions. >

