

# SPORT & TECHNOLOGY

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AI generated portrait of  
Prof. Dr.-Ing. Senner  
(Adobe Firefly, Vidnoz)

Dear readers,

As the festive season envelops us in its warm embrace, I take immense pride in extending my heartfelt greetings and reflecting upon the groundbreaking achievements of our Chair of Sports Equipment and Materials.

In the realm of sports engineering, our commitment to advancing research and nurturing young talent has never been stronger. We proudly celebrated the accomplishments of our dedicated researchers, Kati Nispel and Tanja Lerchl, at the "Spine Loading and Deformation" workshop hosted by the Julius-Wolff-Institut. Their innovative work in biomechanics is a testament to our dedication to cutting-edge research.

Our global outreach was further exemplified at the 20th anniversary of the International Society of Biomechanics in Fukuoka, Japan. Here, the breadth and depth of biomechanical research were showcased, highlighting our continued contribution to the international scientific community.

Closer to home, our commitment to promoting young female scientists in STEM fields shone brightly. The inspiring initiative, which brought Bavarian schoolgirls to the Schneesportzentrum Environmental Research Station on the Zugspitze, was a resounding success. This initiative, supported by the Hg Foundation, is crucial in breaking down gender stereotypes and encouraging young women to explore and excel in STEM fields. Furthermore, our Chair's research endeavors have borne fruit this year with the successful completion of key projects. The ZIM project MotiTrain, a pioneering endeavor in interactive fitness coaching, represents a significant leap in digital training and biomechanical analysis. The development of a 3D-printed, modular knee orthosis epitomizes our commitment to personalized healthcare solutions. Last but not least, BFS mechatronic ski binding underscores our unwavering dedication to advancing alpine sports safety. These are just some of our notable achievements, showcasing our commitment to innovation and excellence in sports equipment design.

As we look forward to the new year, let's carry this momentum forward. Let's continue to push the boundaries of sports engineering, nurturing the next generation of scientists and making groundbreaking contributions to the field.

I wish you all a Merry Christmas and a New Year filled with joy, health, and continued success.

Best regards,

*Prof. Dr.-Ing. Senner*