ALPEN-ADRIA UNIVERSITÄT KLAGENFURT

Invitation to the Presentation about the Workplacement

Teresa Rauscher
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"Acoustic Engineering: non-linear wave propagation in ultrasound imaging"

https://classroom.aau.at/b[illegible]ka-3nh-a2g

Friday, 5 June 2020

2:00 p.m.

Abstract

Ultrasound imaging is a very powerful medical tool, especially in the division of Women's Health. GE Healthcare is one of the leading companies worldwide that develops ultrasound machines, probes and everything that goes with it. I had the opportunity to do my work placement in the department of Acoustic Engineering at GE Healthcare in Zipf. In this presentation I want to explain some theoretical parts and also give an insight in the practical realization, which includes the basics of an ultrasound imaging system, transducers, modes and the setup of measurements for testing. Finally, I will explain a current problem regarding the deviation of the calculations from acoustic measurements due to the non-linear wave propagation.

Barbara Kaltenbacher and the Department of Mathematics look forward to seeing you at the talk!