ALPEN-ADRIA UNIVERSITÄT KLAGENFURT

INVITATION TO THE PRESENTATION ABOUT THE WORK-PLACEMENT

Acoustic Engineering: non-linear wave propagation in ultrasound imaging

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Chaired by Barbara Kaltenbacher | Department of Mathematics

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https://classroom.aau.at/b/bka-3nh-a2g

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.

We hope to see you there!