

3-DAY LECTURE INVITATION

SOUND QUALITY OF AUDIO SYSTEMS Modeling, Measurement & Control

By Dr. Wolfgang Klippel & KLIPPEL engineers
March 16-18, 2026



Benefit from the over 30 years of fundamental research by Dr. Klippel and apply this knowledge to your own field of work to improve the way you design and/or manufacture your loudspeaker.

The 2026 lecture on “Sound Quality of Audio Systems” is presented by Dr. Wolfgang Klippel, professor at the Institute of Acoustics and Speech Communication. It will give you a deep understanding of measurement and diagnostic techniques used in telecommunication, automotive, multi-media, and professional applications to design small, light and cost-effective loudspeakers. Linear, nonlinear and time-variant systems with lumped and distributed parameters model the generation of signal distortion. The course makes the relationship between symptoms and physical causes of the distortion more transparent. Practical sections will give each participant further opportunities for learning by doing.

HIGHLY RECOMMENDED FOR

- Students and teachers of the electro-acoustics
- Engineers of the audio industry active in R&D, manufacturing, quality control

MAIN TOPICS

- Electro-acoustical modelling
- Measurements and analysis
- Interpretation and diagnostics
- Digital loudspeaker control

NEW THIS YEAR: IEC standards

WHEN: March 16-18, 2026 (9:00 - 17:00)

WHERE: Dresden University of Technology, Görges-Bau Room GÖR 226, Helmholtzstr. 9, 01069 Dresden, Germany

LANGUAGE: English

Early Bird Fee: 450 € (VAT incl.) until Dec 31, 2025

Regular Participation Fee: 550 € (VAT incl.)

For External Students: 30€ (VAT incl.)

For External University Staff: 60€ (VAT incl.)

Free of charge for students and staff of Dresden University of Technology!

FOR MORE INFORMATION & QUESTIONS

Please contact Jasmin Klaue:

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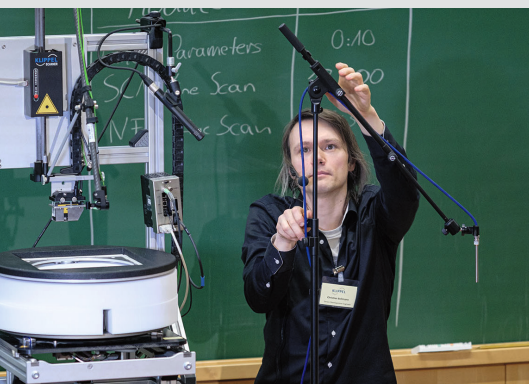
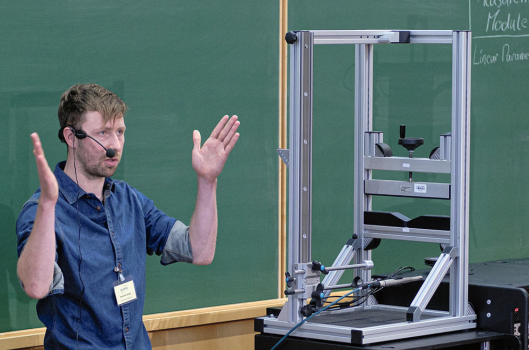


REGISTER NOW!

The online registration is open until March 2, 2026.



Day 1 – March 16, 2026		Day 2 – March 17, 2026	Day 3 – March 18, 2026
8:15 – 8:50	Welcome of Attendants		
9:00 – 12:00	Lecture Part 1 + Practical Demos Linear Lumped Parameters – Modeling & Measurement	Lecture Part 6 + Practical Demos Nonlinear Modeling	Lecture Part 10 + Practical Demos Diagnostics on Irregular Nonlinear Distortion - Loudspeaker Defects (Rub, Buzz, ...)
	Coffee Break	Coffee Break	Coffee Break
	Lecture Part 2 + Practical Demos Distributed Mechanical Modeling with Distributed Parameters - Modal Vibration Analysis & Measurement	Lecture Part 7 + Practical Demos Measurement of Nonlinear Parameters	Lecture Part 11 + Practical Demos Time-Variant Properties (Heating, Ageing, Endurance, Maximum SPL)
12:00 – 13:00	Lunch Break	Lunch Break	Lunch Break
13:00 – 17:00	Lecture Part 3 + Practical Demos Sound Radiation, Measurement and Room Interaction	Lecture Part 8 + Practical Demos Relationship between Physical Causes and Nonlinear Symptoms	Lecture Part 12 + Practical Demos Nonlinear Adaptive Control of Loudspeakers and Headphones
	Coffee Break	Coffee Break	Coffee Break
	Lecture Part 4 + Practical Demos Diagnostics in Small Signal Domain	Lecture Part 9 + Practical Demos Diagnostics Loudspeaker Nonlinearities	Lecture Part 13 + Practical Demos Perceptive and Cognitive Evaluation Lecture Part 14 Creating Successful Audio Products



HOUSE-PARTY AT KLIPPEL HEADQUARTERS
Monday, March 16 at 18:00
Mendelssohnallee 30, 01309 Dresden

Do not miss this opportunity for further networking and knowledge exchange with finger food, drinks, and live music. Bring your instrument along for a spontaneous jam session. Explore our in-house exhibition and get to know our engineers. Measure your speaker and interpret the results with KLIPPEL experts.

Everyone is welcome.
No prior sign-up required.

