

Report on granted activity in the framework of the European Inventor Network



Name of the alumnus who implemented the activity:

Karlheinz Brandenburg

Short description of the activity

An interactive and educational experience for ten female secondary school students (between 14 – 17 age), including their 3 trip supervisors/teachers, to commemorate the International Day of Women and Girls in Science. The activity aimed to provide the students with a special opportunity to meet the renowned scientist and inventor Prof. Karlheinz and hear about his involvement with the innovation of the groundbreaking MP3 format. The goal is to encourage female students to explore STEM fields, ignite their interest in science and technology, and inspire the next generation of female innovators.

During the event, Prof. Brandenburg talked about his impressive career journey, especially shedding light on his involvement with the MP3 Invention. Afterward, the students listened to Brandenburg Labs' truly immersive audio demo that Prof. Brandenburg created with his team.

After a quick introduction to an interactive task, students worked in groups with simple toolkits to create their own music synthesizer to take home together with Brandenburg Labs Engineers.

After a nice lunch break, the students took part in a guided lab tour with the Media and Technology Group at TU Ilmenau, highlighting the equipment and technologies used to create cutting-edge technology. The students were able to interact with the technology being developed at the university and received a comprehensive explanation from experts and scientists.

Date and place of the activity

9 April 2024, Technical University of Ilmenau (TU Ilmenau).

Audience (number and age of the participants)

10 female students from a local school in Erfurt were invited.

Outcomes and achievement

The students had the opportunity to meet a successful inventor who pioneered breakthroughs in the modern music industry, learning from his experiences. They also engaged with a leading female scientist at Brandenburg Labs, showing immense curiosity and interest in her career. Experiencing the first truly immersive audio demo presented to an international audience, they received wide recognition. With the guidance of Brandenburg Labs' sound engineers, they created their own music synthesizers. Exploring the importance of empowering women and girls in science, they shed light on challenges and opportunities in STEM fields. Additionally, they visited three different labs at TU Ilmenau, discovering how technology can be applied to various fields.

Recommendations for future events:

More activities targeting young people and students who show interest in science and technology should be funded and implemented in the future.







