

Activity report for the Pianoforte travel grant

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Attendance at the 11th international Airborne Radiometry Technical Exchange

18.-22. September 2023

My application for the Pianoforte travel grant was to participate at the „11th international AMS tech Exchange“, that was held in Switzerland in September 2023. This tech exchange takes place annually. The aim is an exchange of experts in the field of airborne measurement systems and airborne detection of gamma radiation.

This year's main focus was on numerical methods for calibration and validation, developments on data formats and the experience on using unmanned airborne systems in the field of airborne radiometry.

With my attendance, I was able to improve my rhetorical skills in giving a talk on data evaluation. The aim of the talk was to give an overview about correction and calibration factors that are used for data validation in the field of airborne gamma ray spectrometry at the Federal Office for Radiation Protection. In this case, measurement data was taken by helicopter-borne measurements.

Furthermore, the exchange was a great opportunity both to listen to talks from international radiation protection experts on that theme and to get in touch with people that have been working in this field for many years. For me, this was an excellent chance to learn from experts and establish international contacts. Besides that, I could extend my skills about measurement systems used by different international teams, about organizing and planning measurement flights in other countries and about further and advanced techniques on data evaluation and validation, that could also be useful for my work at BfS.

I came home with many new ideas and a strong gain of knowledge in the field of airborne radiometry and a lot of new international contacts in the field of airborne gamma ray spectrometry.

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