RemoteALPHA

EMPIR EURAMET

The EMPIR initiative is co-funded by the European Union's Horizon 2020 research and innovation programme and the EMPIR Participating States

# RemoteALPHA online workshop
## on remote optical detection of alpha-emitting radionuclides

16 February 2022

Workshop registration form: https://forms.gle/HyiyoWwGsWNYqPo58.

Click here to join the online meeting with Microsoft Teams.

For more information, please contact sakari.ihantola@alfarift.com.

## Agenda

All times in Central European Time (CET).

9:00 – 9:30 Welcome and introduction, Alfa Rift

- Introduction of collaboration members
- Introduction of stakeholders and end-users

9:30 – 09:50 Overview of RemoteALPHA project
F. Krasniqi, Physikalisch-Technische Bundesanstalt

09:50 – 10:20 Principles of optical alpha detection
J.Toivonen, Tampere University

10:20 – 11:00 Development of optical detection systems for remote detection of alpha particles in the environment
F. Krasniqi, M. Luchkov and V. Dangendorf, Physikalisch-Technische Bundesanstalt

11:00 – 11:15 Design and characterisation of a new UV-radiance standard for the calibration of the radioluminescence detection system
D. Taubert, Physikalisch-Technische Bundesanstalt

11:15 – 11:35 Virtual tour at Tampere University optics laboratory

11:35 – 12:35 Lunch break

12:35 – 12:50 Development of traceable alpha-spectrometry sources for RemoteALPHA
S. Röttger, Physikalisch-Technische Bundesanstalt

12:50 – 13:15 Environmental samples for testing the remote detection system
A. Klose, Leibniz University Hannover

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13:15 – 13:30 Coffee break

13:30 – 13:45 Virtual tour at Physikalisch-Technische Bundesanstalt Microbeam laboratory

13:45 – 14:00 Laser-induced fluorescence detection of alpha emitters
J. Toivonen, Tampere University

14:00 – 14:15 Optical alpha detection with drones
A. Vargas, Polytechnic University of Catalonia

14:15 – 14:25 Workshop closing remarks, Alfa Rift

14:25 – 15:00 Stakeholder committee meeting (for Stakeholder committee members only)
Chair: F. Krasniqi, Physikalisch-Technische Bundesanstalt

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Tampere University UNIVERSITAT POLITÈCNICA DE CATALUNYA BARCELONATECH SZENT ISTVÁN UNIVERSITY