RemoteALPHA

EMPIR EURAMET

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M9 Meeting
EMPIR 19ENV02 RemoteALPHA

27 May 2021, 10:00 – 17:00
(online, hosted by TAU)

AGENDA

09:00 – 09:30	Technical test of the web conference	
09:30 – 10:00	Registration (partners and collaborators)	
10:00 – 10:15	Welcome and introduction	Juha Toivonen, TAU Faton Krasniqi, PTB
WP1: New instrumentation for the optical detection of alpha particle emitters in the environment Chair: F. Krasniqi		
10:15 – 11:15	**Task 1.1:** *Investigation of the current status of alpha- source-detection via radioluminescence of air*	Faton Krasniqi, PTB
	Task 1.2: *Optimization of optical configurations for detection of alpha-induced radioluminescence*	Faton Krasniqi, PTB Juha Toivonen, TAU Mastaneh Zadehrafi, IFIN-HH
	Task 1.3: *Scaling up the optics of radioluminescence detection system for environmental use and its integration in the UAV*	Faton Krasniqi, PTB **Further discussion will follow in WP3.**
	Task 1.4: *Development of novel optical detection system for remote detection of alpha particles in the environment*	Faton Krasniqi, PTB
11:15 – 11:30	Coffee break	
WP2: Calibration system for the novel-type radioluminescence detector systems Chair: D. Taubert		
11:30 – 12:30	**Task 2.1:** *Development of a fit-to-purpose calibration method*	Mastaneh Zadehrafi, IFIN-HH Annika Klose, LUH
	Task 2.2: *Design and realization of a dedicated calibration optical radiation source*	Richard Taubert, PTB Gál Péter György, BFKH
	Task 2.3: *Validation of the calibration method*	Richard Taubert, PTB
12:30 – 13:15	Lunch break	
WP3: Mapping of alpha contaminations in the environment using UAVs Chair: A. Vargas		
13:15 – 14:15	**Task 3.1:** *Development of unmanned airborne monitoring system* *+ further discussion about Task 1.3*	Arturo Vargas, UPC
	Task 3.2: *Development of software and tools for data acquisition, processing, transmission and analysis*	Arturo Vargas, UPC
	Task 3.3: *Development of test and calibration procedures for unmanned airborne monitoring systems*	Arturo Vargas, UPC Faton Krasniqi, PTB
	Task 3.4: *Measurement campaigns for testing and calibration*	Arturo Vargas, UPC

WP4: Feasibility study of laser-based techniques for detection of alpha emitters Chair: J. Toivonen		
14:15 – 15:00	**Task 4.1:** *Fundamental study on appropriate fluorescence transition in gases*	Juha Toivonen, TAU Kim Kalmankoski, TAU
	Task 4.2: *Design and realization of laser-induced re-excitation scheme*	Juha Toivonen, TAU Kim Kalmankoski, TAU
	Task 4.3: *Proof-of-principle validation of laser-induced method for detection of alpha emitters*	Juha Toivonen, TAU Kim Kalmankoski, TAU
15:00 – 15:15	Coffee break	
WP5: Creating impact Chair: S. Ihantola		
15:15 – 16:00	**Task 5.1:** *Knowledge transfer*	Faton Krasniqi, PTB Mastaneh Zadehrafi, IFIN-HH
	Task 5.2: *Training*	Johan Sand, ALFARIFT István Nikolényi and Györgyi Bela, SZIU
	Task 5.3: *Uptake and exploitation*	Sakari Ihantola, ALFARIFT
	Exploitation Plan	
	Stakeholder Involvement	
WP6: Management and coordination Chair: F. Krasniqi		
16:00 – 16:45	**Task 6.1:** *Project management*	Faton Krasniqi, PTB
	Task 6.2: *Project meetings*	
	Task 6.3: *Project reporting*	
	M9 Reporting: Progress Reports, Impact and Output	
	Preparation of M18 Meeting	
16:45 – 17:00	Closing remarks	Faton Krasniqi + all attendees