RemoteALPHA

EMPIR EURAMET

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M27 Meeting
EMPIR 19ENV02 RemoteALPHA

28 November 2022, 10:00 – 17:00
(online, hosted by MATE)

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	Robert Istvan Nikolenyi, MATE Faton Krasniqi, PTB
WP1: New instrumentation for the optical detection of alpha particle emitters in the environment Chair: M. Zadehrafi		
10:15 – 11:15	**Task 1.2:** *Optimization of optical configurations for detection of alpha-induced radioluminescence* Concluded task: Brief summary by PTB	PTB, IFIN-HH, TAU, LUH
	Task 1.3: *Scaling up the optics of radioluminescence detection system for environmental use and its integration in the UAV* Concluded task: Brief summary by PTB and UPC	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*	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* Concluded task: Brief summary by IFIN-HH and LUH	IFIN-HH, LUH
	Task 2.2: *Design and realization of a dedicated calibration optical radiation source* Concluded task: Brief summary by PTB	PTB (Berlin), BFKH
	Task 2.3: *Validation of the calibration method*	PTB (Berlin)
12:30 – 13:30	Lunch break	
WP3: Mapping of alpha contaminations in the environment using UAVs Chair: A. Vargas		
13:30 – 14:15	**Task 3.1:** *Development of unmanned airborne monitoring system* *+ further discussion about Task 1.3* Concluded task: Brief summary by UPC and PTB	UPC
	Task 3.2: *Development of software and tools for data acquisition, processing, transmission and analysis*	UPC
	Task 3.3: *Development of test and calibration procedures for unmanned airborne monitoring systems*	UPC, PTB
	Task 3.4: *Measurement campaigns for testing and calibration*	UPC, PTB

PTB Messen • Forschen • Wissen; Budapest Fővárosi Kormányhivatala; IFIN-HH; ALFA RIFT; Leibniz Universität Hannover; Tampere University; UPC Universitat Politècnica de Catalunya BarcelonaTech; MATE Hungarian University of Agriculture and Life Sciences

WP4: Feasibility study of laser-based techniques for detection of alpha emitters Chair: J. Toivonen		
14:15 – 15:00	**Task 4.2:** *Design and realization of laser-induced re-excitation scheme* Concluded task: Brief summary by TAU	TAU
	Task 4.3: *Proof-of-principle validation of laser-induced method for detection of alpha emitters*	
15:00 – 15:15	Coffee break	
WP5: Creating impact Chair: S. Ihantola		
15:15 – 16:00	**Task 5.1:** *Knowledge transfer* Updating the webpage Workshop by MATE	IFIN-HH, PTB
	Task 5.2: *Training*	Alfa Rift, MATE
	Task 5.3: *Uptake and exploitation*	Alfa Rift, PTB
	Exploitation Plan	
	Stakeholder Involvement	
WP6: Management and coordination Chair: F. Krasniqi		
16:00 – 16:40	**Task 6.1:** *Project management*	Faton Krasniqi, PTB
	Task 6.2: *Project meetings*	
	Task 6.3: *Project reporting*	
	M27 Reporting: Progress Reports, Impact and Output	
16:40 – 17:00	Closing remarks	Faton Krasniqi + all attendees