

15.10.2021

GammaRay X Webinar Program

Wednesday, 20 October 2021			
Start (UTC)	End (UTC)	Speaker	Title
Opening session			
7:00	7:10	Roy Pöllänen, STUK	Opening and general information
7:10	7:40	Mark Dowdall, DSA	Invited lecture: A Wide Spectrum: NKS Gamma Spectrometry Activities Over Two Decades
7:40	8:25	Marie-Christine Lépy, CEA	Invited lecture: Focus on measurements and corrective factors of low-energy X- and gamma-rays
8:25	8:45	-	Break
Detection limits & coincidence correction			
8:45	9:05	Henrik Ramebäck, FOI	Recent work on detection limits in gamma ray spectrometry
9:05	9:15	Tim Vidmar, SCK CEN	Validation of EFFTRAN for TCS corrections
9:15	9:35	Henrik Ramebäck, FOI	Interlaboratory comparison (ILC) on simulated air filter + discussion
9:35	10:30	-	Lunch break
Uncertainties & efficiencies			
10:30	11:15	Alexander Mauring, IFE	Invited lecture: Estimating measurement uncertainties when the normal GUM approach fails
11:15	11:35	Marc Breidenbach, AMETEK GmbH	Optimizing the detector model to improve the overall quality of efficiency transfer calculations
11:35	11:50	Roy Pöllänen, STUK	Renewal of efficiency calibrations in STUK
11:50	12:10	-	Break
Equipment & development			
12:10	12:30	Riina Virta, HIP	Passive Gamma Emission Tomography (PGET) for verifying spent nuclear fuel
12:30	12:45	Leen Verheyen, SCK CEN	Automatic liquid nitrogen filling system in the gamma ray spectroscopy lab
12:45	13:05	Sakari Ihantola, STUK	Novel Detector for Finnish Early Warning Network
13:05	13:20	-	Break
13:20	13:30	Jani Turunen, STUK	Radical improvements to STUK's laboratory analysis capability
13:30	13:45	Hussam Badran, STUK	Non-destructive sample analysis using coincidence technique with the upgraded PANDA device
13:45	14:00	Timo Hilden, STUK	New multi-detector coincidence devices at STUK

15.10.2021

Thursday, 21 October 2021			
Start (UTC)	End (UTC)	Speaker	Title
Laboratory measurement and development			
7:00	7:15	Sven Poul Nielsen, DTU	Update on gamma spectrometry at DTU Risø
7:15	7:25	Satu Rautio, Loviisa NPP	Gamma measurements at Loviisa Power Plant
7:25	7:35	Eric Dorval, VTT Technical Research Centre of Finland	An overview of gamma-spectrometry activities at VTT
7:35	7:55	Nicola Markovic Barsebäck Kraft AB	Source homogeneity assumption in object gamma spectrometry
7:55	8:05	Julia Puputti, University of Oulu	Callio Lab – multidisciplinary underground research centre
8:05	8:20	-	Break
Field measurements, nuclear forensics and applications			
8:20	8:50	Harri Toivonen, HT Nuclear	Invited lecture: Simulation of radiation in-field operations for training, exercises, and capability testing
8:50	9:20	Mark Dowdall, DSA	NKS RINFOR: Improvement of National Nuclear Forensics Gamma Spectrometric Core Capabilities
9:20	9:40	Eric Tischenbach, Mirion	AEGIS Field Measurement
9:40	10:30	-	Lunch break
Applications, software			
10:30	10:50	Matti Kalliokoski University of Helsinki	Gamma-ray imaging with a GeGI device
10:50	11:10	Joonas Tikkanen, STUK	Fluence spectrum of an X-ray irradiator: How to obtain fluence from a measured spectrum with MC data
11:10	11:20	Mats Eriksson University of Linköping	On the use of principal component analysis, PCA, in gamma spectrometry
11:20	11:30	Sigurður Emil Pálsson, University of Iceland	Using first responder gamma spectrometric software for teaching and emergency response
11:30	11:50	-	Break
NORM, nuclear fuel & waste			
11:50	12:20	Antti Kallio, STUK	Invited lecture: Measurements supporting NORM-regulation in Finland
12:20	12:40	Aleksandr Jermolajev, Ignalina NPP	Radiological characterization of radioactive waste and clearance of radioactive waste from regulatory control at Ignalina NPP
12:40	12:50	Thomas Bandur Aleksandersen & Anna Banel, IFE	How IFE contributes to handle challenges associated with LSA waste and contamination?
12:50	13:10	-	Break
Webinar round up			
13:10	13:40	Invited lecturers Facilitator Roy Pöllänen	Panel discussion
13:40	13:50	Roy Pöllänen, STUK	Summary, webinar reporting, future gamma spectrometry meetings/seminars/webinars