

2<sup>nd</sup> ENA WORKSHOP, Vienna, 20-22 October 2020

## Agenda

**The ENA Workshop will be held online.**

**Conference rooms 1 and 2 will be accessible through the AGES virtual conference system.**

**Registered participants will receive their personal log-in details prior to the workshop.**

### Tuesday, 20 October 2020

<b>Conference room 1</b> 11.00-11.30	Opening session
	President's address AGES welcome address
11.30-12.00	<b>Keynote:</b> J.-F. Lecomte: The ICRP approach for protection from NORM exposure (Pub 142)

12.00-13.25	Break
-------------	-------

<b>Conference room 1</b> 13.25-15.00	Topical Session " <b>Practical implementation of the EU BSS</b> " Chair: Stéphane Pepin	
13.30-14.00	R. Trevisi, F. Trotti, S. Bucci, C. Nuccetelli	The new Italian legislation on radiological protection in NORM industries
14.00-14.30	R. Stroude	Graded-Approach in the implementation of regulation on NORM in Switzerland
14.30-15.00	R. Gellermann, C. Kunze	ICPR Publication 142, the European BSS, and the system for radiation protection for industries involving NORM in Germany

<b>Conference room 2</b> 13.30-15.00	Topical Session " <b>NORM in building materials</b> " Chair: Rob Wieggers	
13.30-14.00	G. de With	Radon and thoron release from mineral based building materials – an experimental and computational study
14.00-14.30	K. Gijbels, W. Schroeyers, H. Nguyen, M. Illikainen, Y. Pontikes, P. Samyn, S. Schreurs	Radiological assessment of the use of phosphogypsum and steel slags in new cementitious binders
14.30-15.00	B. Daniel	Determination of radioactivity concentrations in building materials with respect to French decree

15.00-15.30	Break
-------------	-------

2<sup>nd</sup> ENA WORKSHOP, Vienna, 20-22 October 2020

<b>Conference room 1</b> <b>15.30-17.00</b>	Continuation of the Topical Session “ <b>Practical implementation of the EU BSS</b> ” Chair: C. Nuccetelli	
15.30-16.00	S. Pepin, B. Dehandschutter, G. Biermans	NORM in consumer products: challenges for industry and regulator
16.00-16.30	M. García-Talavera, J. Popic, P. Görts, Z. Deri, K. Jones, S. Pepin, Philipp Steinmann	HERCA document on exemption and clearance of NORM across HERCA countries
16.30-17.00	Ivana Zenata	Radiation Protection in Balneology - NORM or Radon Workplace?

<b>Conference room 2</b> <b>15.30-17.30</b>	Continuation of the Topical Session “ <b>NORM in building materials</b> ” Chair: Wouter Schroeyers	
15.30-16.00	R. Wiegers	Transport mechanism in porous matrices and its practical use
16.00-16.30	K. Kovler, A. Tsapalov	Determination of activity concentration index for building materials: screening vs. standard laboratory tests
16.30-17.00	Taavi Vaasma, Rein Koch, Siiri Suursoo, Marily Jaska	I-index and radon exhalation of building materials imported from non-EU countries to the Estonian market
17.00-17.30	Final discussion of the Working Group “NORM in building materials” Chairs: W. Schroeyers, K. Kovler	

### Wednesday, 21 October 2020

<b>Conference room 1</b> 09.00-09.30	<b>Keynote:</b> J. Hondros: Practical Application of the ERICA Non-Human Biota Assessment for Mining Operations with NORM	
---	--	--

<b>Conference room 1</b> <b>09.30-11.00</b>	Topical Session “ <b>NORM in the industry</b> ” Chair: Rainer Gellermann	
09.30-10.00	F. Trotti, S. Bucci, E. Caldognetto, F. Cioni, A. D'Elia, L. Filipozzi, M. Guazzini, M. Lanciai, C. Martinelli, I. Peroni, D. Piccini, G. Pratesi, R. Ugolini	Natural radioactivity in treatment plants of two Italian aqueducts
10.00-10.30	M. Pugliese, C. Nuccetelli, F. Trotti, S. Bucci, I. Pinto, G. La Verde, G. Venoso, C. Di Carlo, E. Caldognetto, R. Ugolini, F. Leonardi, L. Luzzi, R. Trevisi	Protocols and computational methods to support stakeholders of NORM industrial sectors in Italy: a research project
10.30-11.00	G. Simone, L. Baldassarre, S. Bucci, I. Peroni, G. Pratesi, A. Pola, D. Bortot, F. Rodari, F. Trotti	Radiological Characterisation and Management of NORM Waste: A Case Study Applied to the TiO <sub>2</sub> Production Industry

2<sup>nd</sup> ENA WORKSHOP, Vienna, 20-22 October 2020

<b>Conference room 2</b> <b>09.30-11.00</b>	Topical Session <b>“NORM in the environment”</b> Chair: Hildegard Vandenhove	
09.30-10.00	N. Vanhoudt, A. Van Gompel, J. Vives i Batlle	The use of a forest on a waste deposit from the phosphate industry as research site
10.00-10.30	J. Mantero, A.Vargas-Pina, G. Manjón and R. García-Tenorio	Natural radionuclides in a populated area placed over a restored former coal mine from Southern Spain
10.30-11.00	S. Kahnwald	Clean up of a radioactively contaminated legacy site in Oranienburg, Germany - Current Situation

11.00-11.25	Break	
-------------	-------	--

<b>Conference room 1</b> <b>11.25-13.00</b>	Continuation of the Topical Session <b>“NORM in the industry”</b> Chair: Flavio Trotti	
11.30-12.00	E. Ntalla, K. Tsirikos, A. Clouvas, A. Savidou	Development of an effective technology for NORM Waste Characterization from Oil Industry
12.00-12.30	T. Kaevand, E. Lemkov	The aftermath of a devastating fire-accident in NORM-facility
12.30-13.00	Oskar van Dongen	Potassium-40 in Dutch radiation protection legislation – an industry perspective

<b>Conference room 2</b> <b>11.30-13.00</b>	Continuation of the Topical Session <b>“NORM in the environment”</b> Chair: Rafael Garcia-Tenorio	
11.30-12.00	H. Vandenhove, J. Vives i Batlle, C. Turcanu	Advances and challenges in R&D on NORM in the environment in Europe.
12.00-12.30	J. Vives i Batlle	Modelling the combined effects of radionuclides and chemical pollutants on non-human biota from the Nete Valley in Belgium
12.30-13.00	R. Arndt, C. Kunze, J. Mossig, H. Schulz	Drone-based gamma spectrometry at NORM and uranium legacy sites

13.00-14.00	Break	
-------------	-------	--

<b>Conference room 1</b> <b>14.00-15.30</b>	Continuation of the Topical Session <b>“NORM in the industry”</b> Chair: Boguslaw Michalik	
14.00-14.30	Rafael Garcia-Tenorio	Radiometric Determinations in Industrial Processes where 210Pb and 210Po are of Concern: Difficulties and Challenges
14.30-15.00	Mihaela Onofrei	Management of NORM wastes issued from the dismantling of off-shore O&G & Acid phosphate facilities – methodology
15.00-15.30	R.A. Echavez, A. Barba-Lobo, F. Mosqueda-Peña, J. C. Cárdenas, O.P. Ortiz, J.P. Bolívar	Natural Radionuclides mobility into synthetic flowbacks from the oil & gas industry

2<sup>nd</sup> ENA WORKSHOP, Vienna, 20-22 October 2020

<b>Conference room 2</b> <b>14.00-15.30</b>	Continuation of the Topical Session " <b>NORM in the environment</b> " Chair: Stéphane Pepin	
14.00-14.30	C. Kunze, H. Hummrich, J. Schott	Determination of natural radionuclides from uranium and NORM legacy sites in transboundary rivers of Central Asia
15.00-15.30	Final discussion of the Working Group "NORM in the environment" Chairs: Hildegard Vandenhove, Stéphane Pepin	

15.30-16.00	Break	
-------------	-------	--

<b>Conference room 1</b> <b>16.00-17.30</b>	Continuation of the Topical Session " <b>NORM in the industry</b> " Chair: Boguslaw Michalik	
16.00-16.30	Marina Sáez-Muñoz, Josefina Ortiz, Sebastián Martorell	Evaluation of the radiological impact of NORM ceramic industries in Spain
16.30-17.00	N. Leikoski, M. Otaki, A. Kallio, T. Turtiainen, P. Kurttio	Naturally occurring radioactive material (NORM) in Finnish groundwater treatment facilities
17.00-17.30	Final discussion of the Working Group "NORM in the industry" Chairs: Rainer Gellermann, Christian Kunze	

17.30-18.00	Break	
-------------	-------	--

<b>Conference room 1</b> <b>18.00-19.00</b>	ENA General Assembly Chairs: Christian Kunze, Rob Wieggers ENA members only	
--	---	--

**Thursday, 22 October 2020**

<b>Conference room 1</b> <b>09.00-10.30</b>	Topical Session " <b>Harmonisation of characterisation standards</b> " Chair: Konstantin Kovler	
09.00-09.30	Govert de With	Development of a European harmonised standard on the determination of the gamma radiation from building materials
09.30-10.00	Katarzyna Sobiech-Matura, Jan Paepen, Govert de With	On the way to the European standard on the determination of <sup>226</sup> Ra, <sup>232</sup> Th and <sup>40</sup> K in construction products - Plans for the interlaboratory comparison
10.00-10.30	Panel discussion:	Future trends in standardization, would some kind of "umbrella" standard for measuring NORM in building materials, including the screening tests, be useful?

2<sup>nd</sup> ENA WORKSHOP, Vienna, 20-22 October 2020

<b>Conference room 2</b> <b>09.00-10.30</b>	Topical Session “ <b>Transport and storage of NORM</b> ” Chair: Lonneke van Bochove	
09.00-09.30	Jeroen Welbergen	The storage of NORM in the Netherlands
09.30-10.00	E.-M. Steffan	Challenges in the classification of class 7 dangerous goods, and the requirements for the selection of suitable packagings. Examples of Best Practices and guidelines
10.00-10.30	F. Grandia	Towards the permanent storage of NORM: Lessons from the geological disposal of high-level radioactive waste

10.30-11.00	Break	
-------------	-------	--

<b>Conference room 1</b> <b>11.00-12.00</b>	Topical Session “ <b>NORM and decommissioning</b> ” Chair: Fidel Grandia	
11.00-11.30	K. Oranje	Waste handling from decommissioning of a phosphorus plant
11.30-12.00	Per Varskog	Decommissioning of oil & gas production facilities

<b>Conference room 1</b> <b>12.00-13.15</b>	<b>Final session</b> Chair: Christian Kunze	
12.00-12.15	Boguslaw Michalik	Update on the “RadoNorm Project”
12.15-12.45	R. Wiegers	NORM - quo vadis?
12.45-13.00	Stéphane Pepin, Christian Ahrens	<b>Young Professional Award</b> <b>(The prize – Vienna Symphonics gold coin – will be mailed to winner after the workshop)</b>
13.00-13.15	Christian Kunze	<b>Closing of the 2<sup>nd</sup> ENA Workshop</b>