

# **8th International Conference on Environmental Radioactivity**



## **Report of Contributions**

Contribution ID: 5

Type: **ORAL**

## **Radiation adaptive response for constant dose-rate irradiation in high background radiation areas**

### **Conference topic**

Other relevant topics

**Authors:** Mr BUGAŁA, Ernest (Wydział Fizyki, Politechnika Warszawska); FORNALSKI, Krzysztof (Wydział Fizyki, Politechnika Warszawska)

**Track Classification:** Progress in radioecology

Contribution ID: 6

Type: **ORAL**

## **Influence of the “Galerna” meteorological phenomenon on the emission of radiological “false alarms” in real time**

### **Conference topic**

Progress in environmental radioactivity studies

**Authors:** Mr FREIRE, Andima (University of the Basque Country); Dr PEÑALVA, Igor (University of the Basque Country); Mr MUÑOZ, Jose Miguel (Basque Government); Dr HERNÁNDEZ-CEBALLOS, Miguel Ángel (University of Cordoba); ALEGRIA, Natalia (University of the Basque Country)

**Track Classification:** Progress in environmental radioactivity studies

Contribution ID: 7

Type: **POSTER**

## **Study of Radioactivity in the reservoirs that supply water to Great Bilbao**

### **Conference topic**

Progress in environmental radioactivity studies

**Authors:** Mrs MERELLO, Adriana (University of the Basque Country); Prof. PINTO, Charles (University of the Basque Country); Dr PEÑALVA, Igor (University of the Basque Country); ALEGRIA, Natalia (University of the Basque Country)

**Track Classification:** Progress in environmental radioactivity studies

Contribution ID: 8

Type: **POSTER**

## **Development of a Deep Learning-Based Model for Radionuclide Identification**

### **Conference topic**

Recent developments in analytical technologies

**Author:** Mr LEE, Sangyun (Dankook University)

**Co-authors:** Mr LEE, Chae Hyun (Dankook University); Dr JOO, Han Young (Dankook University); Prof. MOON, Joo Hyun (Dankook University)

**Track Classification:** Progress in environmental radioactivity studies

Contribution ID: 9

Type: **POSTER**

## **Determination of natural radioactivity and the associated radiation hazards in decorated vitrified tiles collected from Tamil Nadu, India**

### **Conference topic**

Terrestrial radioactivity

**Authors:** ANANDANARAYANAN, CHANDRASEKARAN (Sri Sivasubramaniya Nadar College of Engineering (Autonomous)); Prof. RAHMAN, Ismail M. M. Rahman

**Track Classification:** Terrestrial radioactivity

Contribution ID: 10

Type: POSTER

## **Analyzing low levels of naturally occurring radionuclides in foods –Insights from the first German total diet study**

### **Conference topic**

Progress in environmental radioactivity studies

**Author:** HOFMANN, Peggy (Federal Office for Radiation Protection)

**Co-authors:** Dr ACHATZ, Michaela (Federal Office for Radiation Protection); Dr FOHLMEISTER, Jens (Federal Office for Radiation Protection); Dr BERG, Tanja (German Federal Institute for Risk Assessment); Dr SARVAN, Irmela (German Federal Institute for Risk Assessment)

**Track Classification:** Terrestrial radioactivity

Contribution ID: 11

Type: **POSTER**

## **Estimation of Radon ( $^{222}\text{Ra}$ ) activity concentration levels and associated effective dose in bottled drinking water from South Africa**

### **Conference topic**

Terrestrial radioactivity

**Author:** JOHN, Samuel Odumu Ogana (Center for Applied Radiation Science and Technology, North-West University (Mahikeng Campus), South Africa.)

**Co-authors:** Dr OLUKOTUN, Stephen Friday (Center for Applied Radiation Science and Technology (CARST), North West University, Mafikeng Campus South Africa); Prof. MATHUTHU, Manny (Center for Applied Radiation Science and Technology (CARST), North-West University, Mafikeng Campus South Africa)

**Track Classification:** Terrestrial radioactivity

Contribution ID: 12

Type: POSTER

## **Distribution coefficient in soils with natural enrichment of long-lived natural radionuclides ( $^{238}\text{U}$ and $^{226}\text{Ra}$ )**

### **Conference topic**

Terrestrial radioactivity

**Authors:** Dr VERA TOMÉ, Feliciano (Universidad de Extremadura); Dr LOZANO, Juan Carlos (Universidad de Salamanca); BLANCO RODRÍGUEZ, Pilar (Universidad de Extremadura)

**Track Classification:** Radionuclides as tracers of environmental processes

Contribution ID: 13

Type: **POSTER**

## **Observed Atmospheric $^{133}\text{Xe}$ Concentrations in the Arctic and North Atlantic Oscillation (NAO)**

### **Conference topic**

Radionuclides as tracers of environmental processes

**Authors:** Mr PELLERIN, Eric (Health Canada); Mrs YI, Jing (Health Canada); Dr UNGAR, Kurt (Health Canada); Mr SICKEL, Morten (NORSAR, Norway); Dr ZHANG, weihua (Health Canada)

**Track Classification:** Modelling of environmental processes

Contribution ID: 14

Type: **POSTER**

## **Dose Assessment of Natural Radionuclides in Food Consumed in Germany**

### **Conference topic**

Progress in environmental radioactivity studies

**Author:** Dr ACHATZ, Michaela (Federal Office for Radiation Protection)

**Co-authors:** Dr JAEGER, Anna (German Federal Institute for Risk Assessment); Dr JUNG, Christian (German Federal Institute for Risk Assessment); Dr FOHLMMEISTER, Jens (Federal Office for Radiation Protection); Dr HOFMANN, Peggy (Federal Office for Radiation Protection)

**Track Classification:** Terrestrial radioactivity

Contribution ID: 15

Type: **POSTER**

## **Natural Radioactivity in the Pilanesberg Alkaline Ring Complex**

### **Conference topic**

Terrestrial radioactivity

**Author:** BEZUIDENHOUT, Jacques (Stellenbosch University)

**Track Classification:** Terrestrial radioactivity

Contribution ID: 16

Type: **POSTER**

## **FRN application and conventional methods for soil redistribution analysis in the la Zanguenga micro-basin (Panama Canal)**

### **Conference topic**

Terrestrial radioactivity

**Author:** Mr POMARE DOUGLAS, Jeremy (Universidad Tecnológica de Panamá)

**Track Classification:** Modelling of environmental processes

Contribution ID: 17

Type: **POSTER**

## **Analysis of Radioactive Concentrations in Metal Samples Irradiated by Neutron**

### **Conference topic**

Radionuclide impact of nuclear facilities and their decommissioning on the environment

**Author:** Dr LEE, Myung Ho (Korea Reactor Integrity Surveillance Technology)

**Track Classification:** Radionuclide impact of nuclear facilities and their decommissioning on the environment

Contribution ID: 18

Type: POSTER

## **Radionuclide Assessment of Oil Palm Plantation Soils in Ondo and Ekiti State, Nigeria.**

### **Conference topic**

Progress in environmental radioactivity studies

**Authors:** ODUDU, Abimbola (Adeyemi Federal University of Education, Ondo, Ondo State, Nigeria); Dr ADELAYI, Moromoke (Adeyemi Federal University of Education, Ondo, Ondo State, Nigeria); Prof. OYEBANJO, Oluwakemi (Tai Solarin University of Education, Ijagun, Ogun State, Nigeria)

**Track Classification:** Terrestrial radioactivity

Contribution ID: 19

Type: **ORAL**

## **A comparative study between $^{7}\text{Be}$ detected in TSP and PM<sub>10</sub>**

### **Conference topic**

Radionuclides as tracers of environmental processes

**Authors:** GORDO PUERTAS, Elisa (Universidad de Málaga); Dr LIGER, Esperanza (Universidad de Málaga); Mrs NAVARRO, Esperanza Macarena (Universidad de Málaga); Mr RODRÍGUEZ, Javier (Universidad de Málaga)

**Track Classification:** Radionuclides as tracers of environmental processes

Contribution ID: 20

Type: **POSTER**

## **Proficiency testing for Cs-137 and Cs-134 determination in soil**

### **Conference topic**

Reference materials for environmental radioactivity studies

**Authors:** GEMBAL, Magdalena (National Veterinary Research Institute, Department of Chemical Research of Food and Feed, 24-100 Pulawy, Poland); CZERSKI, Paweł (National Veterinary Research Institute, Department of Chemical Research of Food and Feed, 24-100 Pulawy, Poland); Dr WARENIK-BANY, Małgorzata (National Veterinary Research Institute, Department of Chemical Research of Food and Feed, 24-100 Pulawy, Poland)

**Track Classification:** Reference materials for environmental radioactivity studies

Contribution ID: 21

Type: **POSTER**

## **Contamination of wild animal bones with the radioactive isotope Sr-90**

### **Conference topic**

Radionuclides as tracers of environmental processes

**Authors:** CZERSKI, Paweł (National Veterinary Research Institute, Department of Chemical Research of Food and Feed, 24-100 Pulawy, Poland); GEMBAL, Magdalena (National Veterinary Research Institute, Department of Chemical Research of Food and Feed, 24-100 Pulawy, Poland); Dr WARENIK-BANY, Małgorzata (National Veterinary Research Institute, Department of Chemical Research of Food and Feed, 24-100 Pulawy, Poland)

**Track Classification:** Radionuclide impact of nuclear facilities and their decommissioning on the environment

Contribution ID: 22

Type: **ORAL**

## **Fukushima-derived radiocesium in the western North Pacific Ocean a decade after the accident**

### **Conference topic**

Marine radioactivity

**Author:** KUMAMOTO, Yuichiro (Japan Agency for Marine-Earth Science and Technology)

**Co-author:** Dr HAMAJIMA, Yasunori (Kanazawa University)

**Presenter:** KUMAMOTO, Yuichiro (Japan Agency for Marine-Earth Science and Technology)

**Track Classification:** Marine radioactivity

Contribution ID: 23

Type: POSTER

## **An Overview of the Feasibility of Leveraging Deep Learning for Environmental Radioactivity: Opportunities, Challenges, and Interdisciplinary Solutions**

### **Conference topic**

Recent developments in analytical technologies

**Author:** Dr SHAHROKHI, Amin (University of Pannonia)

**Co-authors:** Mrs OSEI AKUO-KO, Esther (University of Pannonia); Mr TETTEY-LARBI, Lordford (University of Pannonia); Mrs ADJEI-KYEREME, Serwaa (University of Pannonia); Mr ONUMAH, Thomas (University of Pannonia); Dr KOVÁCS, Tibor (University of Pannonia)

**Track Classification:** Modelling of environmental processes

Contribution ID: 24

Type: **POSTER**

## **Possibility of F1NPS-derived radio-caesium in fish of Eastern China Sea as bio-indicator for ocean tracer**

### **Conference topic**

Marine radioactivity

**Author:** Prof. TATEDA, Yutaka (Institute of Environmental Radioactivity, Fukushima University)

**Co-authors:** Prof. TAKATA, Hyoe (Institute of Environmental Radioactivity, Fukushima University); Dr AONO, Tatsuo (Fukushima Institute for Research, Education and Innovation); Prof. HAMAJIMA, Yasunori (Kanazwa University); Prof. INOMATA, Yayoi (Kanazwa University)

**Track Classification:** Marine radioactivity

Contribution ID: 25

Type: POSTER

## **Air Sampling at Barakah NPP –Challenges with environmental conditions on system performance and enhancements made to instruments and monitoring protocols.**

### **Conference topic**

New challenges in the studies on environmental radioactivity

**Authors:** Ms AL MAAZAMI, Amna (ENEC Operations); Mr MADDISON, Andrew (ENEC Operations)

**Track Classification:** Recent developments in analytical technologies

Contribution ID: 26

Type: POSTER

## **Transport of Fukushima-derived $^{137}\text{Cs}$ into the South China Sea via Subtropical Mode Water intrusion through the Luzon Strait**

### **Conference topic**

Modelling of environmental processes

**Authors:** LEE, Seung-Tae (Korea Institute of Ocean Science & Technology); Prof. CHO, Yang-Ki (Seoul National University); Dr KIM, Kyeong Ok (Korea Institute of Ocean Science & Technology); Dr SEO, Seongbong (Korea Institute of Ocean Science & Technology)

**Track Classification:** Marine radioactivity

Contribution ID: 28

Type: **ORAL**

## **Radiation Fallout Levels in Coastal Marine Environment Insights from the IAEA-RCA-7028 Project**

### **Conference topic**

Marine radioactivity

**Author:** PULHANI, Vandana (Environmental Monitoring and Assessment Division, Bhabha Atomic Research Centre, Mumbai, India)

**Co-authors:** Ms SURESH, Sugandhi (Environmental Monitoring and Assessment Division, BARC, Mumbai, India); Mr MISHRA, Manish (Environmental Monitoring and Assessment Division, BARC, Mumbai, India); Dr YADAV, Vir B (Environmental Monitoring and Assessment Division, BARC, Mumbai, India); Mr MISHRA, Devendra (Environmental Monitoring and Assessment Division, BARC, Mumbai, India); Mr JOSHI, Vikram (Environmental Monitoring and Assessment Division, BARC, Mumbai, India)

**Presenter:** PULHANI, Vandana (Environmental Monitoring and Assessment Division, Bhabha Atomic Research Centre, Mumbai, India)

**Track Classification:** Modelling of environmental processes

Contribution ID: 29

Type: POSTER

## **In-situ gamma radiation assessment of coastal and hinterland regions of Kanyakumari high background natural radiation area, India**

### **Conference topic**

Terrestrial radioactivity

**Author:** NATARAJAN, Thennaarassan (Tokyo Metropolitan University, Tokyo 116-8551, Japan)

**Co-authors:** Prof. INOUE, Kazumasa (Tokyo Metropolitan University, Tokyo 116-8551, Japan); Prof. SAHOO, Sarata Kumar (Tokyo Metropolitan University, Tokyo 116-8551, Japan); Prof. FUKUSHI, Masahiro (Tokyo Metropolitan University, Tokyo 116-8551, Japan); Mr ITO, Satoshi (Tokyo Metropolitan University, Tokyo 116-8551, Japan); Dr MURUGAN, Rajamanickam (V.O. Chidambaram College, Tamil Nadu 628008, India); Mr P, Duraimaran (University of Hyderabad, Hyderabad 500046, India)

**Track Classification:** Terrestrial radioactivity

Contribution ID: 30

Type: POSTER

## Ultra-sensitive radionuclide detection with Ion-Laser InterAction Mass Spectrometry

### Conference topic

Other relevant topics

**Authors:** MARTSCHINI, Martin (University of Vienna - Faculty of Physics); MERCHEL, Silke (University of Vienna - Faculty of Physics); HAIN, Karin (University of Vienna - Faculty of Physics); FROST, Laura (Jülicher Entsorgungsgesellschaft für Nuklearanlagen); GÄRTNER, Andreas (Senckenberg Dresden); MARCHHART, Oscar (University of Vienna - Faculty of Physics); STEIER, Peter (University of Vienna - Faculty of Physics); WIESER, Alexander (University of Vienna - Faculty of Physics); WINKLER, Stella (Helmholtz-Zentrum Dresden-Rossendorf, Accelerator Mass Spectrometry and Isotope Research, Dresden, Germany); GOLSER, Robin (University of Vienna - Faculty of Physics)

**Track Classification:** Recent developments in analytical technologies

Contribution ID: 31

Type: **POSTER**

## **Data Base of Radioecological Parameters for Arid Environments**

### **Conference topic**

Reference materials for environmental radioactivity studies

**Authors:** Dr HILLER, Mauritius (RadCon GmbH); Dr SEMIOSCHKINA, Natalia (RadCon GmbH); Dr VOIGT, Gabriele (RadCon GmbH)

**Presenter:** Dr HILLER, Mauritius (RadCon GmbH)

**Track Classification:** Modelling of environmental processes

Contribution ID: 32

Type: **POSTER**

## **Impact of Soil Organic Matter on the Formation of $^{137}\text{Cs}$ and $^{239,240}\text{Pu}$ Secondary Peaks in Vertical Soil Profiles**

### **Conference topic**

Radionuclides as tracers of environmental processes

**Authors:** KONSTANTINOVA, Marina (Center for Physical Sciences and Technology); Dr KAZAKIČIŪTĖ-JAKUČIŪNIENĖ, Laima (Center for Physical Sciences and Technology); PUZAS, Andrius (Center for Physical Sciences and Technology); Dr ŽUKAUSKAITĖ, Zita (Center for Physical Sciences and Technology); Dr TARASIUK, Nikolaj (Center for Physical Sciences and Technology); BUIVYDAS, Šarūnas (Center for Physical Sciences and Technology); Dr MACEIKA, Evaldas (Center for Physical Sciences and Technology)

**Presenter:** KONSTANTINOVA, Marina (Center for Physical Sciences and Technology)

**Track Classification:** Radionuclides as tracers of environmental processes

Contribution ID: 33

Type: **ORAL**

## **Accelerator Mass Spectrometry: Techniques for Measurement of Long-Lived Radionuclides and Applications**

### **Conference topic**

Radionuclides as tracers of environmental processes

**Author:** CAFFEE, Marc (Purdue University)

**Track Classification:** Radionuclides as tracers of environmental processes

Contribution ID: 34

Type: ORAL

## **Uranium and thorium preconcentration from liquid samples via the use of a polymeric complexing membrane**

### **Conference topic**

Recent developments in analytical technologies

**Author:** Dr XARCHOULAKOS, Dimitrios C. (Greek Atomic Energy Commission)

**Track Classification:** Recent developments in analytical technologies

Contribution ID: 35

Type: **ORAL**

## **THE DISTRIBUTION OF BERYLLIUM-7 CONCENTRATION IN RAINWATER IN TWO SEASONS**

### **Conference topic**

Radionuclides as tracers of environmental processes

**Author:** SHARIB, JALAL (MALAYSIAN NUCLEAR AGENCY)

**Track Classification:** Radionuclides as tracers of environmental processes

Contribution ID: 36

Type: POSTER

## **ENRICHMENT FACTOR AND GEOACCUMULATION INDEX OF HEAVY METALS IN THE SURFACE SEDIMENTS IN THE SEMBRONG CATCHMENT**

### **Conference topic**

Other relevant topics

**Author:** SHARIB, JALAL (MALAYSIAN NUCLEAR AGENCY)

**Track Classification:** Terrestrial radioactivity

Contribution ID: 37

Type: **ORAL**

## **Assessment of averted doses for the verification of seafood distribution/consumption restrictions imposed after the FDNPP accident**

### **Conference topic**

Radionuclide impact of nuclear facilities and their decommissioning on the environment

**Author:** MORI, Airi (Japan Atomic Energy Agency)

**Co-authors:** Dr IIMOTO, Takeshi; Dr TAKAHARA, Shogo

**Track Classification:** New challenges in the studies on environmental radioactivity

Contribution ID: 38

Type: POSTER

## SHORT-TERM SOIL EROSION RATE IN DIFFERENT LAND USE AREAS IN THE SEMBRONG CATCHMENT

### Conference topic

Radionuclides as tracers of environmental processes

**Author:** SHARIB, JALAL (MALAYSIAN NUCLEAR AGENCY)

**Track Classification:** Radionuclides as tracers of environmental processes

Contribution ID: 39

Type: POSTER

## **Model simulation and cost-benefit assessment of countermeasures to reduce the $^{137}\text{Cs}$ load from un-decontaminated dam lakes in Fukushima, Japan**

### **Conference topic**

Terrestrial radioactivity

**Author:** TSUJI, Hideki (Fukushima Institute for Research, Education, and Innovation)

**Co-authors:** Dr SEIJI, Hayashi (Fukushima Institute for Research, Education, and Innovation); Dr ISHII, Yumiko (Fukushima Institute for Research, Education, and Innovation)

**Track Classification:** Modelling of environmental processes

Contribution ID: 40

Type: **ORAL**

## **Radiological characterization, car-borne survey and radioecological risk assessment of soils from Ghazaouet, Western Algeria**

### **Conference topic**

Progress in radioecology

**Author:** TAIEB ERRAHMANI, Djamel (Nuclear Research Center of Algiers)

**Co-authors:** Ms HAMMADI, Anissa (Nuclear research Center of Algiers); Dr ZIOUCHE, Mohamed (Nuclear research Center of Algiers); Mr BOUDRIA, Mouad (Nuclear research Center of Algiers); Mr MAACHE, Mustapha (Nuclear research Center of Algiers); Ms RABIA, Nadia (Nuclear research Center of Algiers)

**Track Classification:** Terrestrial radioactivity

Contribution ID: 41

Type: **POSTER**

## **Environmental radiological risk assessment of algae from Algiers coastline**

### **Conference topic**

Marine radioactivity

**Author:** TAIEB ERRAHMANI, Djamel (Nuclear Research Center of ALgiers)

**Co-authors:** Ms HAMMADI, Anissa (Nuclear research Center of Algiers); Prof. BOULAHIDID, Mustapha (ENSSMAL); Mr MAACHE, Mustapha (Nuclear research Center of Algiers); Ms CHAOUADI, Smina (ENSSMAL); Ms AISSANI, Souhila (ENSSMAL)

**Track Classification:** Marine radioactivity

Contribution ID: 42

Type: **ORAL**

## **Can cooking practices affect dietary exposure to $^{210}\text{Po}$ in seafood?**

### **Conference topic**

New challenges in the studies on environmental radioactivity

**Authors:** Prof. FORSSELL-ARONSSON, Eva (University of Gothenburg); PINERO GARCIA, Francisco (University of Gothenburg); Prof. ISAKSSON, Mats (University of Gothenburg); Dr THOMAS, Rimon (University of Gothenburg); Mr NORDQVIST, Timmy (University of Gothenburg)

**Track Classification:** New challenges in the studies on environmental radioactivity

Contribution ID: 43

Type: **POSTER**

## **What is the potential bioaccessibility of naturally occurring radionuclides in snus when consumed?**

### **Conference topic**

Progress in environmental radioactivity studies

**Authors:** SANDERSON, Emma (University of Gothenburg); PINERO GARCIA, Francisco (University of Gothenburg)

**Track Classification:** New challenges in the studies on environmental radioactivity

Contribution ID: 44

Type: **ORAL**

## **Development of population level biomarkers for low dose radiation: the importance of non-targeted effects.**

### **Conference topic**

New challenges in the studies on environmental radioactivity

**Author:** MOTHERSILL, Carmel (McMaster University)

**Co-author:** Dr SEYMOUR, Colin

**Presenter:** MOTHERSILL, Carmel (McMaster University)

**Track Classification:** New challenges in the studies on environmental radioactivity

Contribution ID: 45

Type: **ORAL**

## **Competing risk model; a new integrated approach to assessing contextual impacts of ionising radiation**

### **Conference topic**

Modelling of environmental processes

**Author:** Dr SEYMOUR, Colin

**Co-author:** MOTHERSILL, Carmel (McMaster University)

**Presenter:** Dr SEYMOUR, Colin

**Track Classification:** Modelling of environmental processes

Contribution ID: 46

Type: **ORAL**

## **Monte Carlo-Based Cancer Risk Assessment of Radon Contamination in Groundwater of Artisanal Mining Areas of Southwest Nigeria**

### **Conference topic**

Terrestrial radioactivity

**Authors:** Prof. ISINKAYE, Matthew Omoniyi (Department of Physics, Ekiti State University, Ado Ekiti, Nigeria); Dr OROSUN, Muyiwa Michael (Institute of Environmental Radioactivity, Fukushima University, Fukushima, Japan); Dr FASANMI, Paulinah Oyindamola (Department of Physics, Ekiti State University, Ado Ekiti, Nigeria)

**Presenter:** Prof. ISINKAYE, Matthew Omoniyi (Department of Physics, Ekiti State University, Ado Ekiti, Nigeria)

**Track Classification:** Modelling of environmental processes

Contribution ID: 47

Type: POSTER

## **The spatial-temporal variation and transport of artificial radionuclides ( $^{137}\text{Cs}$ and $^{239,240}\text{Pu}$ ) around Korea Seas (East Sea, Yellow Sea, Southern coastal of Korea)**

### **Conference topic**

Marine radioactivity

**Authors:** LEE, Hyunmi (Korea Institute Of Ocean Science & Technology); Mrs LEE, Jaeun (Korea Institute Of Ocean Science & Technology)

**Co-author:** Prof. KIM, Intae (Korea Institute Of Ocean Science & Technology)

**Track Classification:** Radionuclide impact of nuclear facilities and their decommissioning on the environment

Contribution ID: 49

Type: **ORAL**

## **A new experimental setup for the on-line measurement of radionuclides at the Jungfrauoch high altitude research station**

### **Conference topic**

Recent developments in analytical technologies

**Authors:** LIENHARD, Daniel (Swiss Federal Office of Public Health); Mr BEURET, Jérémy (Swiss Federal Office of Public Health); Mr MÜLLER, Matthias (Swiss Federal Office of Public Health); Dr STEINMANN, Philipp (Swiss Federal Office of Public Health); Mr BEURET, Pierre (Swiss Federal Office of Public Health); Dr ESTIER, Sybille (Swiss Federal Office of Public Health)

**Track Classification:** Recent developments in analytical technologies

Contribution ID: 50

Type: POSTER

## Distribution of $^{137}\text{Cs}$ in the East Sea and coastal water off southern Korea Peninsula

### Conference topic

Marine radioactivity

**Author:** JAEEUN, Lee (Korea Institute of Ocean Science and Technology (KIOST))

**Co-authors:** KIM, Intae (Korea Institute Of Ocean Science & Technology); LEE, Hyunmi (Korea Institute Of Ocean Science & Technology)

**Track Classification:** Marine radioactivity

Contribution ID: 51

Type: **POSTER**

## **Annual distribution and deposition of atmospheric $^{210}\text{Pb}$ in Busan, the largest port city in Korea**

### **Conference topic**

Marine radioactivity

**Author:** JAEEUN, Lee (Korea Institute of Ocean Science and Technology (KIOST))

**Co-authors:** LEE, Hyunmi (Korea Instrtute Of Ocean Science & Technology); KIM, Intae (Korea Instrtute Of Ocean Science & Technology)

**Track Classification:** Radionuclides as tracers of environmental processes

Contribution ID: 52

Type: **POSTER**

## **Measurements of Radioactivity Equilibrium and Disequilibrium in Oil Scale**

### **Conference topic**

New challenges in the studies on environmental radioactivity

**Author:** LANDSBERGER, Sheldon (University of Texas)

**Co-authors:** Mr MARTIN, Christopher (University of Texas at Austin); Ms COCKERLINE, Kayla (University of Texas at Austin)

**Track Classification:** Progress in environmental radioactivity studies

Contribution ID: 53

Type: **POSTER**

## **Modelling the relationship between naturally occurring radionuclides and grain size of sediment from the Karoo Supergroup**

### **Conference topic**

Modelling of environmental processes

**Author:** BEZUIDENHOUT, Jacques (Stellenbosch University)

**Track Classification:** Modelling of environmental processes

Contribution ID: 54

Type: POSTER

## BACKGROUND LEVELS OF NATURAL AND ARTIFICIAL RADIONUCLIDES IN SOILS OF THE LOCAL AREA OF THE EURASIAN STEPPE ZONE: CONTRIBUTION TO GLOBAL ENVIRONMENTAL MONITORING

### Conference topic

Terrestrial radioactivity

**Authors:** KABDYRAKOVA, Alua (National Nuclear Centre of the Republic of Kazakhstan); TOPOROVA, Anna (Branch “Institute of Radiation Safety and Ecology» of the National Nuclear Centre of the Republic of Kazakhstan); AIDARKHANOV, Assan (Branch “Institute of Radiation Safety and Ecology» of the National Nuclear Centre of the Republic of Kazakhstan); KUNDUZBAYEVA, Assiya (Branch “Institute of Radiation Safety and Ecology» of the National Nuclear Centre of the Republic of Kazakhstan); MENDUBAYEV, Ayan (Branch “Institute of Radiation Safety and Ecology» of the National Nuclear Centre of the Republic of Kazakhstan); BATYRBEKOV, Erlan (National Nuclear Centre of the Republic of Kazakhstan); LARIONOVA, Nataliya (Branch “Institute of Radiation Safety and Ecology» of the National Nuclear Centre of the Republic of Kazakhstan); LUKASHENKO, Sergey (All-Russian Scientific Research Institute of Radiology and Agroecology of the National Research Center ‘Kurchatov Institute’); VITYUK, Vladimir (National Nuclear Centre of the Republic of Kazakhstan); BAKLANOVA, Yuliya (Branch “Institute of Radiation Safety and Ecology» of the National Nuclear Centre of the Republic of Kazakhstan)

**Track Classification:** Terrestrial radioactivity

Contribution ID: 55

Type: **POSTER**

## **Influence of Distribution Coefficients on the Transport of Radioactive Materials in the East Sea**

### **Conference topic**

Marine radioactivity

**Authors:** KIM, Hanna (Korea Institute of Ocean Science & Technology); Dr KIM, Kyeong Ok (Korea Institute of Ocean Science & Technology)

**Co-authors:** Dr SEO, Seongbong (Korea Institute of Ocean Science & Technology); Dr JUNG, Kyung Tae (OCEANIC C&T Co.,Ltd.)

**Track Classification:** Modelling of environmental processes

Contribution ID: 56

Type: ORAL

## **Environmental distribution and migration of cesium-bearing microparticles emitted from the Fukushima accident**

### **Conference topic**

Progress in radioecology

**Author:** MIURA, Hikaru (Central Research Institute of Electric Power Industry)

**Presenter:** MIURA, Hikaru (Central Research Institute of Electric Power Industry)

**Track Classification:** Progress in radioecology

Contribution ID: 57

Type: **POSTER**

## **Monitoring of $^{226}\text{Ra}$ and uranium isotopes concentrations in underground water samples released from a phosphogypsum disposal area**

### **Conference topic**

Terrestrial radioactivity

**Author:** KEHAGIA, Konstantina (Greek Atomic Energy Commission)

**Co-author:** Dr POTIRLADIS, Konstantinos (Greek Atomic Energy Commission)

**Track Classification:** Terrestrial radioactivity

Contribution ID: 58

Type: **POSTER**

## **The ability of calcium oxalates to incorporate Eu(III) and Cm(III)**

### **Conference topic**

Progress in environmental radioactivity studies

**Author:** Dr MOLL, Henry (HZDR)

**Co-authors:** WORBS, Andreas (HZDR); Dr VOGEL, Manja (VKTA); Dr HÜBNER, Rene (HZDR); BEUTNER, Sabrina (HZDR); ALDIN AZZAM, Salim Shams (HZDR)

**Track Classification:** Recent developments in analytical technologies

Contribution ID: 59

Type: **ORAL**

## **The impact of uranium and malic acid on soil microbial communities and a Mesorhizobium isolate**

### **Conference topic**

Progress in environmental radioactivity studies

**Author:** LINARES JIMÉNEZ, Raúl Eduardo (Helmholtz-Zentrum Dresden-Rossendorf)

**Co-authors:** Dr CHERKOUK, Andrea (Helmholtz-Zentrum Dresden-Rossendorf); Dr STEUDTNER, Robin (Helmholtz-Zentrum Dresden-Rossendorf); Dr SACHS, Susanne (Helmholtz-Zentrum Dresden-Rossendorf); Prof. STUMPF, Thorsten (Helmholtz-Zentrum Dresden-Rossendorf); Dr WEI, Ting-Shyang (Helmholtz-Zentrum Dresden-Rossendorf)

**Track Classification:** Progress in radioecology

Contribution ID: 60

Type: ORAL

## **Environmental Assessment of Natural and Artificial Radionuclides in Beira Interior, Portugal: Insights for NORM Management**

### **Conference topic**

Radionuclides as tracers of environmental processes

**Author:** LICOUR, Caroline (HE2B/ISIB)

**Track Classification:** Terrestrial radioactivity

Contribution ID: 61

Type: **ORAL**

## **Review of the marine radioecology of tritium in Japanese coastal waters**

### **Conference topic**

Marine radioactivity

**Author:** TATEDA, Yutaka (Institute of Environmental Radioactivity, Fukushima University)

**Track Classification:** Marine radioactivity

Contribution ID: 62

Type: ORAL

## **$^{134}\text{Cs}$ , $^{137}\text{Cs}$ and $^{239+240}\text{Pu}$ concentrations in surface air at Chiba City, Japan during 2016 to 2023: factors controlling their seasonal and interannual variations**

### **Conference topic**

Radionuclides as tracers of environmental processes

**Author:** Mr SUZUKI, Soichiro (Japan Chemical Analysis Center)

**Co-authors:** Mr ABE, Goh (Japan Chemical Analysis Center); Mr NITTA, Wataru (Japan Chemical Analysis Center); Mr ISOGAI, Keisuke (Japan Chemical Analysis Center); Mr ISHIHARA, Fumiya (Japan Chemical Analysis Center); Mr SUGIYAMA, Midori (Japan Chemical Analysis Center); Mr TAKEUCHI, Kazuya (Japan Chemical Analysis Center); HIROSE, Katsumi (Laboratory for Environmental Research at Mount Fuji)

**Presenter:** Mr SUZUKI, Soichiro (Japan Chemical Analysis Center)

**Track Classification:** Radionuclides as tracers of environmental processes

Contribution ID: 63

Type: ORAL

## **Observation of plutonium isotopes in surface air at Chiba City, Japan from 2016 to 2023: occurrence of anomalous $^{238}\text{Pu}$**

### **Conference topic**

Radionuclides as tracers of environmental processes

**Author:** SUZUKI, Soichiro (Japan Chemical Analysis Center)

**Co-authors:** ABE, Goh (Japan Chemical Analysis Center); NITTA, Wataru (Japan Chemical Analysis Center); ISOGAI, Keisuke (Japan Chemical Analysis Center); ISHIHARA, Fumiya (Japan Chemical Analysis Center); HIROSE, Katsumi (Laboratory for Environmental Research at Mount Fuji)

**Presenter:** SUZUKI, Soichiro (Japan Chemical Analysis Center)

**Track Classification:** Radionuclides as tracers of environmental processes

Contribution ID: 64

Type: ORAL

## **Impacts of climate change in the North Pacific: which are the most important anthropogenic radionuclide tracers of oceanic change?**

### **Conference topic**

Radionuclides in Climate Change Studies

**Author:** HIROSE, Katsumi (Laboratory for Environmental Research at Mount Fuji)

**Co-authors:** Prof. TSUMUNE, Daisuke (Tsukuba University); Dr ZHENG, Jian (National Institute for Quantum Science and Technology); Dr YAMADA, Masatoshi (Marine Ecology Research Institute); Prof. POVINEC, Pavel (Comenius University); Dr INOMATA, Yayoi (Kanazawa University)

**Track Classification:** Radionuclides in climate change studies

Contribution ID: 65

Type: **ORAL**

## **Partitioning of plutonium between bottom waters and sediments in the Far Eastern Seas**

### **Conference topic**

New challenges in the studies on environmental radioactivity

**Author:** HIROSE, Katsumi (Laboratory for Environmental Research at Mount Fuji)

**Co-authors:** Prof. TSUMUNE, Daisuke (Tsukuba University); Prof. POVINEC, Pavel (Comenius University); Prof. AYA, Sakaguchi (Tsukuba University)

**Track Classification:** Radionuclides as tracers of environmental processes

Contribution ID: 66

Type: POSTER

## Long-term observations of Beryllium-7 and Sodium-22 in ground-level air

### Conference topic

Radionuclides in Climate Change Studies

**Authors:** LIENHARD, Daniel (Swiss Federal Office of Public Health); STEINMANN, Philipp (FOPH); ESTIER, Sybille (Swiss Federal Office of Public Health)

**Track Classification:** Radionuclides as tracers of environmental processes

Contribution ID: 67

Type: POSTER

## **Transport of the Cs-137 water in the North Pacific subtropical mode water at the end of March 2011 to the East China Sea and Sea of Japan**

### **Conference topic**

Marine radioactivity

**Authors:** TSUMUNE, Daisuke (University of Tsukuba); Dr MISUMI, Kazuhiro (Central Research Institute of Electric Power Industry); TSUBONO, Takaki (Central Research Institute of Electric Power Industry); INOMATA, YAYOI (kanazawa university)

**Track Classification:** Modelling of environmental processes

Contribution ID: 68

Type: ORAL

## **Effects of preferential flow and radiocesium-rich microparticles (CsMPs) on spatial heterogeneity of $^{137}\text{Cs}$ in forest soils after the Fukushima accident**

### **Conference topic**

Terrestrial radioactivity

**Author:** TAKAHASHI, Junko (University of Tsukuba)

**Co-authors:** YOSHIMURA, Kazuya (Japan Atomic Energy Agency); Prof. YAMASAKI, Shinya (University of Tsukuba); Mr MISHIMA, Shunsuke (University of Tsukuba); Prof. ONDA, Yuichi (University of Tsukuba)

**Track Classification:** Radionuclides as tracers of environmental processes

Contribution ID: 69

Type: POSTER

## **Assessing uranium contamination in groundwater of North-East Punjab: Spatial and vertical distribution and extraction using NdFeO<sub>3</sub>**

### **Conference topic**

Other relevant topics

**Authors:** SINGH, Dr. Satvir (Assistant Dean Research, HoD Applied Sciences Assistant Professor-- Physics CT University, Ludhiana); Dr BAJWA, B S (Guru Nanak Dev University)

**Track Classification:** Recent developments in analytical technologies

Contribution ID: 70

Type: POSTER

## **Monitoring Terrestrial Gamma Radiation to Characterize Mud Volcanic Activity: Evidence from the Piparo Mud Volcano, Trinidad and Tobago**

### **Conference topic**

Terrestrial radioactivity

**Author:** Ms RAMJARRIE, Kerneese (The University of the West Indies, St. Augustine Campus, Trinidad and Tobago)

**Co-authors:** Dr BANERJEE, Kailas (The University of the West Indies, St. Augustine Campus, Trinidad and Tobago); Dr BLAKE, Oshaine (The University of the West Indies, St. Augustine Campus, Trinidad and Tobago)

**Track Classification:** Terrestrial radioactivity

Contribution ID: 71

Type: **POSTER**

## **Assessment of metal distribution in algae used as bioindicators for the environmental monitoring of Swedish nuclear power plants**

### **Conference topic**

Marine radioactivity

**Author:** PEDEHONTAA-HIAA, Guillaume (Medical Radiation Physics Malmö, Lund University, Sweden)

**Co-authors:** Dr MANTOUVALOU, Ioanna (Helmholz-Zentrum Berlin, Berlin, Germany Sweden); Prof. ERIKSSON STENSTRÖM, Kristina (Division of Particle and Nuclear Physics, Lund University, Lund, Sweden); Prof. BECH, Martin (Medical Radiation Physics, Lund University, Lund, Sweden); Dr DE LA ROSA, Nathaly (Medical Radiation Physics, Lund University, Lund, Sweden); Dr PONGRAC, Paula (Department of Low and Medium Energy Physics, University of Ljubljana, Slovenia); Dr FROST, Robert (Division of Materials Physics, Uppsala University, Uppsala); Prof. MATTSSON, Sören (Medical Radiation Physics Malmö, Lund University, Sweden)

**Presenter:** PEDEHONTAA-HIAA, Guillaume (Medical Radiation Physics Malmö, Lund University, Sweden)

**Track Classification:** Radionuclide impact of nuclear facilities and their decommissioning on the environment

Contribution ID: 72

Type: **ORAL**

## **Radionuclide resuspension: driving force of the persistence of anthropogenic radionuclides at trace level in the atmosphere**

### **Conference topic**

Radionuclides as tracers of environmental processes

**Author:** MASSON, Olivier (Radiation Protection and Nuclear Safety Authority)

**Track Classification:** Radionuclides as tracers of environmental processes

Contribution ID: 73

Type: **ORAL**

## **Transport of radiocaesium in the North Pacific Ocean related with climate change**

### **Conference topic**

Radionuclides in Climate Change Studies

**Author:** INOMATA, YAYOI (kanazawa university)

**Co-authors:** HIROSE, Katsumi (Laboratory for Environmental Research at Mount Fuji); TSUMUNE, Daisuke (University of Tsukuba)

**Track Classification:** Radionuclides in climate change studies

Contribution ID: 74

Type: **ORAL**

## **Development of Shrimp Reference Material for Radioactivity Measurement and Its Application in Proficiency Test**

### **Conference topic**

Reference materials for environmental radioactivity studies

**Authors:** LEE, Sanghan (Korea Research Institute of Standards and Science); LEE, M. J. (KRISS); JUNG, Y. (KRISS)

**Presenter:** LEE, Sanghan (Korea Research Institute of Standards and Science)

**Track Classification:** Reference materials for environmental radioactivity studies

Contribution ID: 75

Type: **ORAL**

## **Long-Term Distribution of $^{137}\text{Cs}$ in Seawater around the Korean Peninsula: Assessing the Impact of the Fukushima Nuclear Accident**

### **Conference topic**

Marine radioactivity

**Authors:** LEE, Sanghan (Korea Research Institute of Standards and Science); Dr LEE, M. J. (KRISS); Dr JUNG, Y. (KRISS); Dr KIM, D. J. (KINS); Dr CHOI, M. S. (KOEM)

**Presenter:** LEE, Sanghan (Korea Research Institute of Standards and Science)

**Track Classification:** Marine radioactivity

Contribution ID: 76

Type: **POSTER**

## **Age dating of sediment cores in Sorsogon Bay, Philippines using $^{210}\text{Pb}$ method: A revisit**

### **Conference topic**

Radionuclides as tracers of environmental processes

**Author:** RAMIREZ, Jennyvi (Department of Science and Technology - Philippine Nuclear Research Institute)

**Co-authors:** Dr BAUTISTA VII, Angel (Department of Science and Technology - Philippine Nuclear Research Institute); Mr STA. MARIA, Efren (Department of Science and Technology - Philippine Nuclear Research Institute); Dr SIRINGAN, Fernando (Marine Science Institute, University of the Philippines); Dr MADRID, Jordan (Department of Science and Technology - Philippine Nuclear Research Institute); Dr CAYETANO, Mylene (Institute of Environmental Science and Meteorology, University of the Philippines); Dr CASTAÑEDA, Soledad (Institute of Environmental Science and Meteorology, University of the Philippines and Professional Regulation Commission)

**Track Classification:** Radionuclides as tracers of environmental processes

Contribution ID: 77

Type: **POSTER**

## **Optimization of a liquid scintillation counting methodology for the determination of tritium in water using the Hidex 300 SL spectrometer**

### **Conference topic**

Recent developments in analytical technologies

**Authors:** NAJMAN, Joanna (Faculty of Energy and Fuels, AGH University of Science and Technology, al. A. Mickiewicza 30, 30-059 Krakow, Poland); Prof. SZARŁOWICZ, Katarzyna (AGH University of Science and Technology, Faculty of Energy and Fuels, Department of Nuclear Energy and Radiochemistry); Dr JĘDRZEJEK, Filip (AGH University of Science and Technology, Faculty of Energy and Fuels, Department of Nuclear Energy and Radiochemistry); Mr KWACISZEWSKI, Szymon (AGH University of Science and Technology, Faculty of Energy and Fuels)

**Track Classification:** Recent developments in analytical technologies

Contribution ID: 78

Type: POSTER

## Different models for calculation of $^{222}\text{Rn}$ flux and validation with experimental data in Bratislava, Slovakia

### Conference topic

Radionuclides as tracers of environmental processes

**Author:** ECKERTOVA, Terezia (FMPI CU in Bratislava)

**Co-authors:** Dr BULKO, Martin (FMPH CU in Bratislava, Slovakia); Dr MÜLLEROVÁ, Monika (FMPH CU in Bratislava, Slovakia); Mr SULTANI, Mohammad Alem (FMPH CU in Bratislava, Slovakia); Prof. MASARIK, Jozef (FMPH CU in Bratislava, Slovakia)

**Presenter:** ECKERTOVA, Terezia (FMPI CU in Bratislava)

**Track Classification:** Modelling of environmental processes

Contribution ID: 79

Type: **POSTER**

## **Radon flux maps for the Slovak Republic based on several approaches and their experimental verification**

### **Conference topic**

Terrestrial radioactivity

**Authors:** BRANDÝSOVÁ, Alžbeta (Faculty of Mathematics, Physics and Informatics, Comenius University in Bratislava); Dr BULKO, Martin (Faculty of Mathematics, Physics and Informatics, Comenius University in Bratislava); Mr SULTANI, Mohammed Alem (Faculty of Mathematics, Physics and Informatics, Comenius University in Bratislava); Dr MÜLLEROVÁ, Monika (Faculty of Mathematics, Physics and Informatics, Comenius University in Bratislava); Dr ECKERTO VÁ, Terézia (Faculty of Mathematics, Physics and Informatics, Comenius University in Bratislava)

**Presenter:** BRANDÝSOVÁ, Alžbeta (Faculty of Mathematics, Physics and Informatics, Comenius University in Bratislava)

**Track Classification:** Modelling of environmental processes

Contribution ID: 80

Type: ORAL

## **Historical Deposition and Distribution of Microplastics in Marine Sediments at the Mouth of the Kocasu River, Southern Marmara Sea, Türkiye**

### **Conference topic**

Marine radioactivity

**Authors:** Prof. SARI, EROL (Istanbul University); Dr ARSLAN KAYA, Tuğçe Nagihan (Istanbul University); Ms ÇETIN, Zeynep (Istanbul University); Dr SEZER, Narin (Arel University); Prof. GÜL, Murat (Muğla Sıtkı Koçman University); Dr GERÇEK, Yusuf Can (Istanbul University)

**Track Classification:** New challenges in the studies on environmental radioactivity

Contribution ID: 81

Type: **POSTER**

## **Phytoremediation of radionuclide-contaminated soil - long-term trial in sunflower cultivation**

### **Conference topic**

Radionuclide impact of nuclear facilities and their decommissioning on the environment

**Author:** KESSLER, Hannah (Leibniz University Hannover)

**Co-authors:** BLENKE, Tobias (Leibniz University Hannover); DUBCHAK, Sergiy (Leibniz University Hannover); GROSSMANN, Kai (VKTA - Radiation Protection, Analytics & Disposal Rossendorf Inc.); GEISLER, Carsten (Entsorgungswerk für Nuklearanlagen GmbH (EWN)); WALTHER, Clemens (Leibniz University Hannover)

**Track Classification:** Progress in radioecology

Contribution ID: 82

Type: **POSTER**

## **Estimation of Doses from Ingestion of Contaminated Food in the Event of a Nuclear Detonation**

### **Conference topic**

Modelling of environmental processes

**Author:** HOSSEINI, Ali (Norwegian Radiation and Nuclear Safety Authority)

**Track Classification:** New challenges in the studies on environmental radioactivity

Contribution ID: 83

Type: **ORAL**

## **Modelling of radionuclides sorption in sediments of the Chernobyl exclusion zone based on smart-Kd approach**

### **Conference topic**

Modelling of environmental processes

**Author:** IARMOSH, Inna (Leibniz University Hannover/Helmholtz-Zentrum Dresden-Rossendorf)

**Co-authors:** Dr BOK, Frank (Helmholtz-Zentrum Dresden-Rossendorf); Prof. BRENDLER, Vinzenz (Helmholtz-Zentrum Dresden-Rossendorf)

**Track Classification:** Modelling of environmental processes

Contribution ID: 84

Type: **POSTER**

## **Behavior and distribution of $^{210}\text{Po}$ in a brackish ecosystem of Uruguay**

### **Conference topic**

Progress in environmental radioactivity studies

**Authors:** Dr BAÑOBRE, Cristina; Dr FORNARO, Laura; Prof. GARCIA-TENORIO, Rafael (University of Seville)

**Track Classification:** Radionuclides as tracers of environmental processes

Contribution ID: 85

Type: **ORAL**

## **Corrected 210Pb based estimations of sediment accumulation rates in a marine area contaminated by legacy oil derived NORM discharges**

### **Conference topic**

Radionuclides in Climate Change Studies

**Author:** DAL MOLIN, Franck (UK Centre for Environment, Fisheries and Aquaculture Science (Cefas))

**Co-authors:** Mr WOODWARD-ROWE, Hugo (University of Essex); Dr JERVIS, John (UK Centre for Environment, Fisheries and Aquaculture Science (Cefas)); Dr HICKS, Natalie (University of Essex); Dr PARKER, Ruth (UK Centre for Environment, Fisheries and Aquaculture Science (Cefas)); Mrs DAVIS, Terri (UK Centre for Environment, Fisheries and Aquaculture Science (Cefas))

**Track Classification:** Radionuclides as tracers of environmental processes

Contribution ID: 86

Type: POSTER

## Increasing iodine-129 concentrations in the West Philippine Sea

### Conference topic

Marine radioactivity

**Authors:** Dr BAUTISTA VII, Angel (DOST - Philippine Nuclear Research Institute); Ms DE GUZMAN, Angela (DOST - Philippine Nuclear Research Institute); Ms CARRILLO, Anne Drew (Marine Science Institute, University of the Philippines Diliman); Ms JARAULA, Caroline Marie (Marine Science Institute, University of the Philippines Diliman); Mr DUMALAGAN, JR., Edwin (Marine Science Institute, University of the Philippines Diliman); Prof. SIRINGAN, Fernando (Marine Science Institute, University of the Philippines Diliman); Dr KUSUNO, Haruka (University of Tokyo); Prof. MATSUZAKI, Hiroyuki (University of Tokyo); Mr VALDEZ, Jeff Darren (DOST - Philippine Nuclear Research Institute); Mr MUNAR, Jeffrey (Marine Science Institute, University of the Philippines Diliman); Ms BAUYON, Mary Margareth (DOST - Philippine Nuclear Research Institute); Ms GABUYO, Mary Rose (Marine Science Institute, University of the Philippines Diliman); Ms TOYA, Miwako (University of Tokyo); Ms REYES, Rachele Clien (DOST - Philippine Nuclear Research Institute); Mr MAGTAAS, Remjohn Aron (DOST - Philippine Nuclear Research Institute); Ms LIMLINGAN, Sophia Jobien (DOST - Philippine Nuclear Research Institute)

**Track Classification:** Marine radioactivity

Contribution ID: 87

Type: POSTER

## **The distribution of Sr in the calcium-rich soils in the Arabian Peninsula**

### **Conference topic**

New challenges in the studies on environmental radioactivity

**Author:** MIHALIK, Jan (Khalifa University)

**Co-author:** Dr ALKAABI, Ahmed (Khalifa University)

**Track Classification:** Terrestrial radioactivity

Contribution ID: 88

Type: POSTER

## **Interaction of Phaseolus vulgaris plants with U(VI): Release of root exudates and their impact on the U(VI) speciation**

### **Conference topic**

Progress in environmental radioactivity studies

**Authors:** BOK, Frank (Helmholtz-Zentrum Dresden-Rossendorf); MAETZKOW, Julia (Helmholtz Zentrum Dresden Rossendorf); STEUDTNER, Robin (Helmholtz-Zentrum Dresden-Rossendorf); SACHS, Susanne (Helmholtz-Zentrum Dresden-Rossendorf); STUMPF, Thorsten (Helmholtz-Zentrum Dresden-Rossendorf)

**Track Classification:** Progress in radioecology

Contribution ID: 89

Type: ORAL

## **Radial Distribution of $^{137}\text{Cs}$ in Japanese cedar and Its Implications for Sustainable Forest Management in Fukushima**

### **Conference topic**

Progress in environmental radioactivity studies

**Author:** OROSUN, Muiwa Michael (Institute of Environmental Radioactivity, Fukushima University, Japan)

**Co-authors:** Prof. NANBA, Kenji (Institute of Environmental Radioactivity, Fukushima University, Japan); Prof. YOSCHENKO, Vasyl (Institute of Environmental Radioactivity, Fukushima University, Japan)

**Track Classification:** New challenges in the studies on environmental radioactivity

Contribution ID: 90

Type: **ORAL**

## **How past and actual releases from a U-conversion facility impact the aquatic environment?**

### **Conference topic**

Radionuclide impact of nuclear facilities and their decommissioning on the environment

**Authors:** Ms BOULET, Béatrice; ANTONELLI, Christelle (Autorité de Sûreté Nucléaire et de Radioprotection); Mr POURCELOT, Laurent (Autorité de Sûreté Nucléaire et de Radioprotection)

**Track Classification:** New challenges in the studies on environmental radioactivity

Contribution ID: 91

Type: **POSTER**

## **Gamma radiation and Radon exhalation in Uruguayan building materials**

### **Conference topic**

Terrestrial radioactivity

**Authors:** NOGUERA ROCHA, Ana (Universidad de la Republica, Centro Universitario Regional del Este, Departamento de Desarrollo Tecnológico); Mr REBOULAZ, Rodolfo (Departamento de Desarrollo Tecnológico, Centro Universitario Regional del Este, Universidad de la República); Mr BENTOS PEREIRA, Heinkel (Departamento de Desarrollo Tecnológico, Centro Universitario Regional del Este, Universidad de la República); Dr FORNARO, Laura (Departamento de Desarrollo Tecnológico, Centro Universitario Regional del Este, Universidad de la República)

**Track Classification:** Terrestrial radioactivity

Contribution ID: 92

Type: POSTER

## **Distribution and origin of naturally occurring radioactive materials (NORMs) in mylonitic rocks of north Abu Rusheid, Eastern Desert, Egypt**

### **Conference topic**

Terrestrial radioactivity

**Author:** Mrs SAKR, Sara Taha Sayed (doctoral student at Tokyo Metropolitan University)

**Co-authors:** Prof. INOUE, Kazumasa (Professor at Tokyo Metropolitan University); Prof. SAHOO, Sarata Kumar (Visiting professor at Tokyo Metropolitan University)

**Track Classification:** Terrestrial radioactivity

Contribution ID: 93

Type: POSTER

## **Simulation-Based Assessment and Validation of Radiological Environmental Impacts from the Oceanic Discharge of ALPS Treated Water**

### **Conference topic**

Marine radioactivity

**Authors:** Mr HIROSHI, Abe (Tokyo Electric Power Company Holdings, Inc.); TSUMUNE, Daisuke (University of Tsukuba); Dr HIROAKI, Kato (University of Tsukuba); MISUMI, Kazuhiro (Central Research Institute of Electric Power Industry); Mr TOMOMI, Okamura (Tokyo Electric Power Company Holdings, Inc.); TSUBONO, Takaki (Central Research Institute of Electric Power Industry); ONDA, Yuichi (University of Tsukuba)

**Track Classification:** Modelling of environmental processes

Contribution ID: 94

Type: **POSTER**

## **Aging of the atmosphere and radiocarbon dating**

### **Conference topic**

Other relevant topics

**Author:** HAJDAS, Irka (ETH Zurich)

**Track Classification:** Modelling of environmental processes

Contribution ID: 95

Type: **ORAL**

## **Effects of Low-Dose Ionizing Radiation on Cataractogenesis and Lens Protein Expression in Voles (*Myodes glareolus*) from the Chernobyl Exclusion Zone**

### **Conference topic**

Progress in radioecology

**Author:** GRZEGORCZYK, Paul (McMaster University)

**Co-authors:** Dr TAIYAB, Aftab (McMaster University, Hamilton, Canada); Dr MOTHERSILL, Carmel (McMaster University, Hamilton, Canada); Ms BARNETT, Cath (UK Centre for Ecology & Hydrology); Dr SEYMOUR, Colin (McMaster University, Hamilton, Canada); Dr WILLIAMS, David (University of Cambridge, UK); Dr WOOD, Michael (University of Salford, UK); Dr GARSHCHAK, Sergii (Chornobyl Center for Nuclear Safety, Ukraine)

**Track Classification:** New challenges in the studies on environmental radioactivity

Contribution ID: 96

Type: **ORAL**

## **Pathways and Distribution Characteristics of Radioactive Material Dumped in the East/Japan Sea**

### **Conference topic**

Modelling of environmental processes

**Authors:** SEO, Seongbong (Korea Institute of Ocean Science and Technology); LEE, Seung-Tae (Korea Institute of Ocean Science & Technology); Dr BROVCHENKO, Igor (Institute of Mathematical Machine and System Problems); KIM, Kyeong Ok (Korea Institute of Ocean Science & Technology); Dr PARK, Young-Gyu (Korea Institute of Ocean Science & Technology)

**Track Classification:** Modelling of environmental processes

Contribution ID: 97

Type: **ORAL**

## **Influence of humification on bioavailable radiocesium concentrations in fallen leaves of Fukushima broadleaf forests**

### **Conference topic**

Terrestrial radioactivity

**Author:** TERASHIMA, Motoki (Fukushima Institute for Research Education and Innovation (F-REI))

**Co-authors:** Mr TAGOMORI, Hisaya (Kyushu Environmental Evaluation Association (KEEA)); Ms KITAZATO, Miho (Kyushu Environmental Evaluation Association (KEEA)); Dr SASAKI, Yoshito (Fukushima Institute for Research Education and Innovation (F-REI))

**Track Classification:** Terrestrial radioactivity

Contribution ID: 98

Type: **ORAL**

## **Spatial variations in radioactive Cs of soil and crop within a field in Fukushima, Japan**

### **Conference topic**

Progress in environmental radioactivity studies

**Author:** Mr SAITO, Kotaro (National Agriculture and Food Research Organization, Japan)

**Co-authors:** Dr FUJIMURA, Shigeto (National Agriculture and Food Research Organization); Dr NISHIKIORI, Tatsuhiro (National Agriculture and Food Research Organization, Japan)

**Presenter:** Mr SAITO, Kotaro (National Agriculture and Food Research Organization, Japan)

**Track Classification:** Radionuclide impact of nuclear facilities and their decommissioning on the environment

Contribution ID: 99

Type: POSTER

## **Application of isotopic approach to assess the quasi-equilibrium levels of $^{137}\text{Cs}$ in Fukushima forests**

### **Conference topic**

Progress in environmental radioactivity studies

**Author:** YOSCHENKO, Vasyl (Fukushima University)

**Co-authors:** Prof. NANBA, Kenji (Fukushima University); Dr OROSUN, Muyiwa Michael (Fukushima University); Mr ZHANG, Jian; Prof. JOHNSON, Thomas (Colorado State University)

**Track Classification:** Recent developments in analytical technologies

Contribution ID: 100

Type: POSTER

## **Linking prey composition to variability of radiocesium contamination in masu salmon: Insights from DNA metabarcoding in a forested river system**

### **Conference topic**

Progress in radioecology

**Author:** ISHII, Yumiko (Fukushima Institute for Research, Education and Innovation)

**Co-authors:** Mr JO, Jaeick (Fukushima Prefectural Centre for Environmental Creation); Dr WADA, Toshihiro (Fukushima University); Dr KANASASHI, Tsutomu (Fukushima University); Dr KONDO, Natsuko (National Institute for Environmental Studies); Dr NAKAJIMA, Nobuyoshi (National Institute for Environmental Studies); Dr TAMAOKI, Masanori (National Institute for Environmental Studies); Dr SAITO, Rie (Iwate University); Dr HAYASHI, Seiji (National Institute for Environmental Studies)

**Track Classification:** Progress in radioecology

Contribution ID: 101

Type: POSTER

## Feasibility Study on Simulation-Based Efficiency Calibration for Environmental Gamma Spectrometry

### Conference topic

Recent developments in analytical technologies

**Authors:** CHA, hyemi (Korea Atomic Energy Research Institute); Dr SEO, Jaehyeon (Korea Atomic Energy Research Institute)

**Co-authors:** Dr KIM, Younghak (Korea Atomic Energy Research Institute); Dr KIM, Chang-jong (Korea Atomic Energy Research Institute); Dr LIM, Jong-myung (Korea Atomic Energy Research Institute); Dr JANG, Mee (Korea Atomic Energy Research Institute)

**Presenter:** CHA, hyemi (Korea Atomic Energy Research Institute)

**Track Classification:** New challenges in the studies on environmental radioactivity

Contribution ID: 102

Type: POSTER

## **Extensive study on vertical migration of $^{137}\text{Cs}$ in undisturbed soil after the Fukushima Dai-ichi Nuclear Power Plant accident.**

### **Conference topic**

Terrestrial radioactivity

**Author:** KAZUYA, Yoshimura (Japan Atomic Energy Agency)

**Co-authors:** Dr SAITO, Kimiaki (Japan Atomic Energy Agency); Dr OCHI, Kotaro (Japan Atomic Energy Agency); Dr MATSUDA, Norihiro (Japan Atomic Energy Agency); Dr MIKAMI, Satoshi (Japan Atomic Energy Agency); Dr SANADA, Yukihiisa (Japan Atomic Energy Agency)

**Track Classification:** Radionuclides as tracers of environmental processes

Contribution ID: 103

Type: POSTER

## Determination of background concentrations of tritium in the freshwater of Fukushima and in the seas around Japan.

### Conference topic

Progress in environmental radioactivity studies

**Author:** MIKI, Shizuho (Radioecology Group, Marine Environment Division, Fisheries Resources Institute, Japan Fisheries Research and Education Agency)

**Co-authors:** TAKATA, Hyoe (Fukushima University); TAKASAKI, Kazuyoshi (Fukushima prefectural Fisheries and Marine Science Research Centre); TOUHATA, Ken (Radioecology Group, Marine Environment Division, Fisheries Resources Institute, Japan Fisheries Research and Education Agency); ENDOU, Masamune (Fukushima prefectural Fisheries and Marine Science Research Centre); MORITA, Takami (Radioecology Group, Marine Environment Division, Fisheries Resources Institute, Japan Fisheries Research and Education Agency); WADA, Toshihiro (Fukushima University); AMANO, Yosuke (Fukushima Prefectural Fishery Office); SHIGENOBU, Yuya (Radioecology Group, Marine Environment Division, Fisheries Resources Institute, Japan Fisheries Research and Education Agency)

**Track Classification:** Marine radioactivity

Contribution ID: 104

Type: ORAL

## Airborne $^{210}\text{Pb}$ and trace elements as tracers for atmospheric pollution in Helsinki metropolitan area

### Conference topic

Radionuclides as tracers of environmental processes

**Authors:** IOANNIDOU, Alexandra (Aristotle University of Thessaloniki, School of Physics); Dr IOANNIDOU, Eleftheria (Aristotle University of Thessaloniki, School of Physics); Dr PAATERO, Jussi (Finnish Meteorological Institute (FMI)); Dr ELEFThERLADIS, Konstantinos (Environmental Radioactivity Laboratory, INRASTES, NCSR Demokritos); Dr MANOUSAKAS, Manousos Ioannis (Environmental Radioactivity Laboratory, INRASTES, NCSR Demokritos); Dr VESTENIUS, Mika (Finnish Meteorological Institute (FMI)); Dr PAPAGIANNIS, Stefanos (Environmental Radioactivity Laboratory, INRASTES, NCSR Demokritos)

**Track Classification:** Radionuclides as tracers of environmental processes

Contribution ID: 105

Type: POSTER

## **An Efficient Separation Method of $^{90}\text{Sr}$ for Various Environment Samples Using Cation Exchange Resin**

### **Conference topic**

Recent developments in analytical technologies

**Author:** Dr KIM, Cheol Su (Korea Institute of Nuclear Safety)

**Presenter:** Dr KIM, Cheol Su (Korea Institute of Nuclear Safety)

**Track Classification:** Recent developments in analytical technologies

Contribution ID: 106

Type: **ORAL**

## **Vermiculite application to inhibit radiocesium uptake by paddy rice**

### **Conference topic**

Radionuclide impact of nuclear facilities and their decommissioning on the environment

**Author:** FUJIMURA, Shigeto (National Agriculture and Food Research Organization)

**Co-authors:** Dr NAKAO, Atushi (Kyoto Prefectural University); Dr KUROKAWA, Kohei (The James Hutton Institute); Dr EGUCHI, Tetsuya (National Agriculture and Food Research Organization)

**Track Classification:** Progress in radioecology

Contribution ID: 107

Type: POSTER

## **Analysis of $^{210}\text{Po}$ , $^{234}\text{U}$ and $^{238}\text{U}$ in the components of the post-mining environment in the Sudetes**

### **Conference topic**

Progress in environmental radioactivity studies

**Author:** LANCZEWSKA, Klaudia (Wydział Chemii Uniwersytet Gdański)

**Track Classification:** Terrestrial radioactivity

Contribution ID: 108

Type: POSTER

## **Spatiotemporal variations of K-40 in atmospheric fallout caused by volcanic eruptions: A case study for Kyushu Island, Japan**

### **Conference topic**

Radionuclides as tracers of environmental processes

**Author:** Prof. KIKAWADA, YOSHIKAZU (Sophia University)

**Co-author:** HIROSE, Katsumi (Laboratory for Environmental Research at Mount Fuji)

**Track Classification:** Radionuclides as tracers of environmental processes

Contribution ID: 109

Type: POSTER

## Photon dose rate monitoring station with source-specific detection

### Conference topic

Recent developments in analytical technologies

**Author:** FEJGL, Michal (National Radiation Protection Institute)

**Co-authors:** Ms STOHAŇZLOVÁ, Kristýna (National Radiation Protection Institute); Dr HÝŽA, Miroslav (National Radiation Protection Institute)

**Track Classification:** Recent developments in analytical technologies

Contribution ID: 110

Type: **ORAL**

## **Records of plutonium isotopes in different sedimentary environments in China**

### **Conference topic**

Radionuclides as tracers of environmental processes

**Author:** XU, Yihong (Anhui Normal University)

**Track Classification:** Radionuclides as tracers of environmental processes

Contribution ID: 111

Type: **POSTER**

## **National propositions for post-accidental management in case of nuclear releases in the marine environment.**

### **Conference topic**

Radionuclide impact of nuclear facilities and their decommissioning on the environment

**Author:** RADAKOVITCH, Olivier (ASNR)

**Co-authors:** Dr DUFFA, Celine (ASNR); Mrs REUTER, Celine (ASNR); Mrs GABILLAUD-POILLION, Florence (ASNR); Dr BERTHO, Jean-Marc (ASNR); Mrs LEGRAND, Laurence (ASNR)

**Track Classification:** Modelling of environmental processes

Contribution ID: 112

Type: ORAL

## **Steps towards the determination of $^{237}\text{Np}/^{239}\text{Pu}$ atom ratios on air filters from Vienna, Austria**

### **Conference topic**

Progress in environmental radioactivity studies

**Authors:** WALLNER, Gabriele (Universität Wien); ROHRBACH, P.; KRAMMER, L.J.; WIEDERIN, A.; STEIER, P.; HAIN, K.

**Track Classification:** Progress in environmental radioactivity studies

Contribution ID: 113

Type: POSTER

## Correlation analysis between the in-situ measured and estimated annual gamma-dose values

### Conference topic

Terrestrial radioactivity

**Authors:** CSORDÁS, Anita (Department of Radiochemistry and Radioecology, University of Pannonia); TÓTH-MERÉNYI, Anna (Department of Mathematics, University of Pannonia); Dr TÓTH-BODROGI, Edit (Department of Radiochemistry and Radioecology, University of Pannonia); TÓTH, Gergely (Department of Radiochemistry and Radioecology, University of Pannonia); NOVÁK, Máté (Department of Radiochemistry and Radioecology, University of Pannonia); Dr KOVÁCS, Tibor (Department of Radiochemistry and Radioecology, University of Pannonia)

**Track Classification:** Modelling of environmental processes

Contribution ID: 114

Type: **POSTER**

## **Estimate the Po-210 content of consumables**

### **Conference topic**

Terrestrial radioactivity

**Authors:** CSORDÁS, Anita (University of Pannonia); VINCZE, Dániel (Department of Radiochemistry and Radioecology, University of Pannonia); Dr TÓTH-BODROGI, Edit (Department of Radiochemistry and Radioecology, University of Pannonia); Dr KOVÁCS, Tibor (Department of Radiochemistry and Radioecology, University of Pannonia)

**Track Classification:** New challenges in the studies on environmental radioactivity

Contribution ID: 115

Type: **ORAL**

## **Application of a sensitive LSC measurement procedure to the determination of $^3\text{H}$ in drinking water and rainwater in the city of Seville**

### **Conference topic**

Recent developments in analytical technologies

**Authors:** Prof. MANJÓN COLLADO, Guillermo (Departamento de Física Aplicada II. Universidad de Sevilla); GARCÍA LEÓN, José Luis (Departamento de Física Aplicada II. Universidad de Sevilla); Prof. GARCÍA LEÓN, Manuel (Departamento de Física Atómica, Molecular y Nuclear. Universidad de Sevilla)

**Track Classification:** Progress in environmental radioactivity studies

Contribution ID: 116

Type: **POSTER**

## **Pu and U isotopic signatures in sediment samples from Lake Bo Langvlei, South Africa**

### **Conference topic**

Progress in environmental radioactivity studies

**Author:** KIMAK, Adam (Spiez Laboratory, Federal Office for Civil Protection)

**Co-authors:** Mrs ALEWELL, Christine (Environmental Geosciences, University of Basel); Mrs GUILLEVIC, Floriane (Environmental Geosciences, University of Basel); Mr SAHLI, Hans (Spiez Laboratory, Federal Office for Civil Protection); Mr CORCHO ALVARADO, José A. (Spiez Laboratory, Federal Office for Civil Protection); Mrs KOBLER, Judith (Environmental Geosciences, University of Basel); Mr RÖLLIN, Stefan (Spiez Laboratory, Federal Office for Civil Protection); Mr HABERZETTL, Torsten (Geomorphology and Polar Research (GEOPOLAR), Institute of Geography, University of Bremen)

**Track Classification:** Radionuclides as tracers of environmental processes

Contribution ID: 117

Type: POSTER

## Direct plutonium Transfer from soils to animal biota in Palomares

### Conference topic

Progress in radioecology

**Authors:** VIOQUE, Ignacio (University of Seville); Dr GALVÁN, Jose (Centro Nacional de Aceleradores, Spain); Prof. LIND, Ole Christian (Norwegian University of Life sciences); Prof. GARCIA-TENORIO, RAFAEL (University of Seville)

**Track Classification:** Progress in radioecology

Contribution ID: 118

Type: POSTER

## Estimation of air dose in forest considering slope directional movement of Cs in forest soil

### Conference topic

Modelling of environmental processes

**Author:** Prof. SHIMADA, Yoko (Kyoto University)

**Co-authors:** Mr MIYATA, Hiraku; Dr IKEGAMI, Maiko; Prof. YONEDA, Minoru; Dr FUKUTANI, Satoshi; Mr SOGABE, Yohei; Mr MOTOIE, Yuki

**Track Classification:** Progress in environmental radioactivity studies

Contribution ID: 119

Type: POSTER

## **Polyelectrolyte complexes of chitosan and sodium alginate for the sorption of selected radionuclides from aqueous solutions**

### **Conference topic**

Progress in environmental radioactivity studies

**Author:** OSZCZAK-NOWIŃSKA, Agata (Wojskowa Akademia Techniczna)

**Track Classification:** Recent developments in analytical technologies

Contribution ID: 120

Type: **POSTER**

## **Radon concentrations, causes, and exposure in South African tourist caves**

### **Conference topic**

Radionuclides as tracers of environmental processes

**Author:** Dr LE ROUX, Rikus (Stellenbosch University)

**Co-author:** Prof. BEZUIDENHOUT, Jacques (Stellenbosch University)

**Presenter:** Dr LE ROUX, Rikus (Stellenbosch University)

**Track Classification:** Terrestrial radioactivity

Contribution ID: 121

Type: **ORAL**

## **Modeling Rainfall-Induced Soil Moisture Effects on Ambient Dose Rates in Fukushima Forests**

### **Conference topic**

Terrestrial radioactivity

**Author:** ONDA, Yuichi (Center for Research in Radiation, Isotopes, and Earth System Sciences, University of Tsukuba)

**Co-author:** TAKAHASHI, Junko (University of Tsukuba)

**Track Classification:** Modelling of environmental processes

Contribution ID: 122

Type: **POSTER**

## **Preliminary results in: Simultaneous determination of $^{210}\text{Bi}$ , $^{210}\text{Po}$ , $^{226}\text{Ra}$ and $^{228}\text{Ra}$ with spontaneous deposition on various surfaces by liquid scintillation counting**

### **Conference topic**

Recent developments in analytical technologies

**Author:** BÁLINT, Farkas-Áron (Babeş-Bolyai University, Faculty of Environmental Sciences and Engineering)

**Co-author:** Prof. BEGY, Róbert-Csaba (Institute for Interdisciplinary Research in Bio-Nano-Science)

**Track Classification:** Recent developments in analytical technologies

Contribution ID: 123

Type: **ORAL**

## **Modeling the Fate of Cs-137 in the Ocean: Toward Detection of Climate Variability**

### **Conference topic**

Radionuclides in Climate Change Studies

**Authors:** TSUMUNE, Daisuke (University of Tsukuba); Dr BRYAN, Frank (National Center for Atmospheric Research); HIROSE, Katsumi (Laboratory for Environmental Research at Mount Fuji); MISUMI, Kazuhiro (Central Research Institute of Electric Power Industry); Dr LINDSAY, Keith (National Center for Atmospheric Research); TSUBONO, Takaki (Central Research Institute of Electric Power Industry); INOMATA, YAYOI (kanazawa university)

**Track Classification:** Radionuclides in climate change studies

Contribution ID: 124

Type: POSTER

## **The Influence of Ionizing Radiation for the Stability of $^{137}\text{Cs}$ Natural Sorbent Based on Dioctahedral Vermiculite**

### **Conference topic**

Terrestrial radioactivity

**Author:** SZARŁOWICZ, Katarzyna (AGH University of Krakow)

**Co-authors:** Dr JĘDRZEJEK, Filip (AGH University of Krakow); Prof. STOBÍŃSKI, Marcin; Dr KRZYSIEK, Mateusz; Prof. SKIBA, Michał (Jagiellonian University)

**Track Classification:** Recent developments in analytical technologies

Contribution ID: 125

Type: POSTER

## **Atmospheric Dispersion Modelling and Radiological Environmental Impact Assessment for the Potential Reopening of the Bataan Nuclear Power Plant, Philippines**

### **Conference topic**

Radionuclide impact of nuclear facilities and their decommissioning on the environment

**Author:** PEREGRINO, Fern Rose (Department of Science and Technology Philippine Nuclear Research Institute)

**Co-authors:** BAUTISTA VII, Angel (DOST - Philippine Nuclear Research Institute); Mr SAMANIEGO, Jessie (Department of Science and Technology - Philippine Nuclear Research Institute, Diliman, Quezon City, 1101 Philippines); Mr QUIERREZ, Rico Neil (Department of Science and Technology - Philippine Nuclear Research Institute, Diliman, Quezon City, 1101 Philippines)

**Track Classification:** Modelling of environmental processes

Contribution ID: 127

Type: ORAL

## The negative effects of environmental radioactivity on microbial communities inhabiting the surface of glaciers

### Conference topic

Radionuclides in Climate Change Studies

**Author:** BUDA, Jakub (Faculty of Biology, Adam Mickiewicz University, Poznań, 61-614 Poznań, Poland)

**Co-authors:** ŁOKAS, Edyta (Institute of Nuclear Physics, Polish Academy of Sciences, 31-342 Kraków, Poland); BŁAŻEJ, Sylwia (Institute of Nuclear Physics, Polish Academy of Sciences, 31-342 Kraków, Poland); AMBROSINI, Roberto (University of Milan, 20133 Milan, Italy); GORZKIEWICZ, Krzysztof (Institute of Nuclear Physics, Polish Academy of Sciences, 31-342 Kraków, Poland); BUDA, Kinga (Faculty of Biology, Adam Mickiewicz University, Poznań, 61-614 Poznań, Poland); SCOTTI, Riccardo (Servizio Glaciologico Lombardo - Glaciological Service of Lombardy, 23888 La Valletta Brianza, Italy); SZUFA, Katarzyna (Jan Długosz University in Częstochowa, 42-200 Częstochowa, Poland); PITTINO, Francesca (University of Milano-Bicocca, 20126, Milan, Italy); CROSTA, Arianna (University of Innsbruck, 6020 Innsbruck, Austria); FRANZETTI, Andrea (University of Milano-Bicocca, 20126, Milan, Italy); TRZEBNY, Artur (Faculty of Biology, Adam Mickiewicz University, Poznań, 61-614 Poznań, Poland); ZAWIERUCHA, Krzysztof (Faculty of Biology, Adam Mickiewicz University, Poznań, 61-614 Poznań, Poland)

**Track Classification:** Progress in radioecology

Contribution ID: 128

Type: **ORAL**

## **Association of heavy metals and radionuclides to wastes from non-operating metallic mining sites in Extremadura (Spain)**

### **Conference topic**

Terrestrial radioactivity

**Authors:** GUILLÉN GERADA, Francisco Javier (Universidad de Extremadura); Mr FIGUEREDO, JOSE LUIS (Universidad de Extremadura); Dr SALAS, ALEJANDRO (Universidad de Extremadura); Mrs GATA-JARAMILLO, ANA MARIA (Universidad de Extremadura)

**Track Classification:** Terrestrial radioactivity

Contribution ID: 129

Type: POSTER

## **Development of scenarios to assess the transfer of radionuclides to groundwater from liquid discharges in NORM industries**

### **Conference topic**

Modelling of environmental processes

**Authors:** GUILLÉN GERADA, Francisco Javier (Universidad de Extremadura); Mrs CABEZAS-VINAGRE, LAURA (Universidad de Extremadura); Dr SALAS, ALEJANDRO (Universidad de Extremadura)

**Track Classification:** New challenges in the studies on environmental radioactivity

Contribution ID: 130

Type: **ORAL**

## **Uranium mineralization in Camarines Norte, Philippines I. In-situ gamma spectrometry, geochemistry, and mineralogy**

### **Conference topic**

Terrestrial radioactivity

**Author:** PEREZ, Americus (DOST - Philippine Nuclear Research Institute)

**Co-authors:** BAUTISTA VII, Angel (DOST - Philippine Nuclear Research Institute); Mr PALATTAO, Botvinnik (DOST - Philippine Nuclear Research Institute); Ms PEREGRINO, Fern Rose (DOST - Philippine Nuclear Research Institute); Dr DE GUZMAN, Joyce Ann (DOST - Philippine Council for Industry, Energy and Emerging Technology Research and Development); Mr SABARIA, Lawrence Glen (DOST - Philippine Nuclear Research Institute); Mr VIRREY, Mervin Dave (DOST - Philippine Nuclear Research Institute); Ms REYES, Rachelle Clien (DOST - Philippine Nuclear Research Institute); Mr MAGTAAS, Remjohn Aron (DOST - Philippine Nuclear Research Institute)

**Presenter:** PEREZ, Americus (DOST - Philippine Nuclear Research Institute)

**Track Classification:** Progress in environmental radioactivity studies

Contribution ID: 131

Type: POSTER

## Radon Progeny Monitoring Outdoors Using Multiple NaI Detectors

### Conference topic

Radionuclides as tracers of environmental processes

**Authors:** KANOUTOS, Konstantinos (National Technical University of Athens); Prof. PETROPOULOS, Nick (National Technical University of Athens); Prof. ANAGNOSTAKIS, Marios (National Technical University of Athens)

**Presenter:** KANOUTOS, Konstantinos (National Technical University of Athens)

**Track Classification:** Terrestrial radioactivity

Contribution ID: 132

Type: **POSTER**

## **Determination of $^{210}\text{Po}$ in seafood using large-area grid ionization chamber alpha Spectrometry**

### **Conference topic**

Recent developments in analytical technologies

**Authors:** YIN, Liangliang (National Institute for Radiological Protection, Chinese Center for Disease Control and Prevention); Prof. JI, Yanqin (National Institute for Radiological Protection, Chinese Center for Disease Control and Prevention)

**Track Classification:** Marine radioactivity

Contribution ID: 133

Type: POSTER

## **A Computer Code for the Calculation of Efficiency Correction Factors due to Self-attenuation in $\gamma$ -Spectroscopic Analysis of NORM**

### **Conference topic**

Progress in environmental radioactivity studies

**Authors:** TRIANTAFYLLOU, Konstantina-Maria (National Technical University of Athens); KANOUTOS, Konstantinos (National Technical University of Athens); ANAGNOSTAKIS, Marios (National Technical University of Athens)

**Presenter:** KANOUTOS, Konstantinos (National Technical University of Athens)

**Track Classification:** Recent developments in analytical technologies

Contribution ID: 134

Type: **ORAL**

## **Simultaneous determination of $^{93}\text{Zr}$ , $^{93}\text{Mo}$ and niobium radionuclides from decommissioning samples, extension of the method for analysis of actinides**

### **Conference topic**

Recent developments in analytical technologies

**Authors:** PAPP, István (Isotoptech Zrt.); Dr VAJDA, Nóra (Radanal Ltd.); Dr OSVÁTH, Szabolcs (National Center for Public Health and Pharmacy)

**Track Classification:** Radionuclide impact of nuclear facilities and their decommissioning on the environment

Contribution ID: 135

Type: **ORAL**

## **Radiochemical separation of $^{227}\text{Ac}$ in environmental samples using solid-phase extraction with ion-imprinted polymer resin**

### **Conference topic**

Radionuclides as tracers of environmental processes

**Author:** CUSNIR, Ruslan (Institute of Radiation Physics)

**Co-authors:** Dr STRAUB, Marietta (Institute of Radiation Physics, Lausanne University Hospital and University of Lausanne); Dr FROIDEVAUX, Pascal (Institute of Radiation Physics, Lausanne University Hospital and University of Lausanne)

**Presenter:** CUSNIR, Ruslan (Institute of Radiation Physics)

**Track Classification:** Recent developments in analytical technologies

Contribution ID: 136

Type: POSTER

## Combined Procedure of Determination of Key Radionuclides in Food for the Ingestion Dose Assessment

### Conference topic

Recent developments in analytical technologies

**Author:** Prof. JI, Yanqin (National Institute for Radiological Protection, Chinese Center for Disease Control and Prevention)

**Co-authors:** Dr SHI, Cen (National Institute for Radiological Protection, Chinese Center for Disease Control and Prevention); YIN, Liangliang (National Institute for Radiological Protection, Chinese Center for Disease Control and Prevention); Mr XIE, Yuhan (National Institute for Radiological Protection, Chinese Center for Disease Control and Prevention); Ms QIAN, Yuxin (National Institute for Radiological Protection, Chinese Center for Disease Control and Prevention)

**Track Classification:** Progress in environmental radioactivity studies

Contribution ID: 137

Type: **POSTER**

## **Determination of the depth distribution of Cs-137 in forest soil profile in Austria**

### **Conference topic**

Terrestrial radioactivity

**Authors:** Dr LANDSTETTER, Claudia (Austrian Agency for Health and Food Safety); Dr ROTH, Dietmar (Austrian Agency for Health and Food Safety); Mrs ELBERS, Krystle (Austrian Agency for Health and Food Safety); Mr KADAN, Rainer (Austrian Agency for Health and Food Safety)

**Track Classification:** Terrestrial radioactivity

Contribution ID: 138

Type: **ORAL**

## **Radon exhalation from polymetallic nodules collected for research from the Clarion–Clipperton zone of the Pacific Ocean**

### **Conference topic**

Marine radioactivity

**Author:** Prof. JANECKI, Daniel (Uniwersytet Opolski)

**Co-authors:** Prof. DOŁHAŃCZUK-ŚRÓDKA, Agnieszka (University of Opole); Dr STRZELECKA, Agnieszka (University of Szczecin); Prof. KŁOS, Andrzej (University of Opole); Dr SKOWRONEK, Artur (University of Szczecin); Dr MIANOWICZ, Kamila (Interoceanmetal Joint Organization); Prof. ABRAMOWSKI, Tomasz (Interoceanmetal Joint Organization); Prof. ZIEMBIK, Zbigniew (University of Opole)

**Track Classification:** Marine radioactivity

Contribution ID: **139**

Type: **POSTER**

**Dr. Prof.**

**Conference topic**

Radionuclides as tracers of environmental processes

**Author:** Prof. GUSYEV, Maksym (IER, Fukushima University)

**Co-authors:** Dr CAUQUOIN, Alexandre (Institute of Industrial Science (IIS), The University of Tokyo); Ms KOREPANOVA, Kateryna (IER, Fukushima University)

**Track Classification:** Radionuclides as tracers of environmental processes

Contribution ID: 140

Type: POSTER

## Recovery of Rare Earth Elements and Carbon Sequestration of Phosphogypsum: Implications for Climate Action Resource Utilization

### Conference topic

Other relevant topics

**Author:** PALATTAO, Botvinnik (Philippine Nuclear Research Institute)

**Co-authors:** Ms ORBECIDO, Aileen (Chemical Engineering Department, De La Salle University); Ms AGUB, Danicah (DOST-Philippine Nuclear Research Institute); Ms BULAONG, Genie Belle (DOST-Philippine Nuclear Research Institute); Ms RAMIREZ, Jennyvi (DOST-Philippine Nuclear Research Institute); Mr SABARIA, Lawrence Glen (DOST-Philippine Nuclear Research Institute); Mr PEREZ, Americus dC (DOST-Philippine Nuclear Research Institute); Mr BAUTISTA VII, Angel (DOST-Philippine Nuclear Research Institute); Ms TABORA, Estrellita (DOST-Philippine Nuclear Research Institute); Ms INTOY, Socorro (DOST-Philippine Nuclear Research Institute)

**Track Classification:** Radionuclides in climate change studies

Contribution ID: 141

Type: POSTER

## High-Sensitivity Determination $^{238}\text{Pu}$ , $^{239}\text{Pu}$ , $^{240}\text{Pu}$ and $^{241}\text{Pu}$ using ICP-MS/MS

### Conference topic

Recent developments in analytical technologies

**Author:** PARK, Jiyoung (korea atomic energy research institute)

**Co-authors:** Ms LEE, Dayoung (Korea Atomic Energy Research Institute (KAERI)); Dr JONG-MY-  
OUNG, Lim (Korea Atomic Energy Research Institute (KAERI))

**Track Classification:** Recent developments in analytical technologies

Contribution ID: 142

Type: **ORAL**

## **Exploring plant-fungal symbioses for bioremediation of radioactively contaminated soils from nuclear sites in Germany**

### **Conference topic**

Radionuclide impact of nuclear facilities and their decommissioning on the environment

**Author:** Dr DUBCHAK, Sergiy (Leibniz University Hannover)

**Co-authors:** WALTHER, Clemens (Leibniz University Hannover); BLENKE, Tobias (Leibniz University Hannover)

**Track Classification:** Progress in radioecology

Contribution ID: 143

Type: **POSTER**

## **MetroPOEM –Metrology for the harmonisation of measurements of environmental pollutants in Europe**

### **Conference topic**

Reference materials for environmental radioactivity studies

**Authors:** WINKLER, Stella (Helmholtz-Zentrum Dresden-Rossendorf, Dresden, Germany); COLLABORATION, The MetroPOEM

**Track Classification:** New challenges in the studies on environmental radioactivity

Contribution ID: 144

Type: POSTER

## **Enhancing Uranium Recovery from Coal Ash Using Semipermeable Membranes and Radiochemical Methods: A Novel Approach**

### **Conference topic**

Recent developments in analytical technologies

**Author:** Dr JĘDRZEJEK, Filip (AGH University of Krakow)

**Co-authors:** Prof. SZARŁOWICZ, Katarzyna (AGH University of Krakow); Ms MENDERA, Weronika (AGH University of Krakow)

**Track Classification:** Recent developments in analytical technologies

Contribution ID: 145

Type: **POSTER**

## **Evaluation of radioactivity in chanterelle (*Cantharellus cibarius*) and health implications**

### **Conference topic**

Terrestrial radioactivity

**Author:** Prof. STRUMINSKA-PARULSKA, Dagmara (University of Gdańsk)

**Co-authors:** Prof. FALANDYSZ, Jerzy (Medical University of Lodz); Dr SZYMAŃSKA, Karolina (University of Gdańsk)

**Track Classification:** Progress in environmental radioactivity studies

Contribution ID: 146

Type: **POSTER**

## **Effects of radon exposure on the bioactive compound profile of *Mentha spicata* L.**

### **Conference topic**

New challenges in the studies on environmental radioactivity

**Authors:** LOPES, Lúgia (Universidade da Beira Interior); Prof. SOARES, Sandra (Universidade da Beira Interior)

**Co-authors:** DIAS, Maria (Universidade da Beira Interior); VICENTE, Mariana (Universidade da Beira Interior); Prof. SCHREURS, Sonja (Hasselt University)

**Track Classification:** Progress in radioecology

Contribution ID: 147

Type: **ORAL**

## **Novel Extraction Chromatographic Method for Determination of Selenium-79 in Radioactive Waste Samples**

### **Conference topic**

Recent developments in analytical technologies

**Author:** DOKL, Matic (DTU)

**Co-authors:** Dr LLOPART BABOT, Ines (Triskem); Prof. QIAO, Jixin (DTU); Prof. LEERMAKERS, Martine (VUB); Dr VASILE, Mirela (SCK CEN); Mr PENTTINEN, Toni (Fortum)

**Track Classification:** Recent developments in analytical technologies

Contribution ID: 148

Type: ORAL

## **Seasonal Variation and Radiological Risk Assessment of Naturally Occurring Radionuclides in Water and Fish from Gold Mining regions of the Lake Victoria Goldfields, Tanzania**

### **Conference topic**

Radionuclides in Climate Change Studies

**Author:** Ms SEIF, Dorice (University of Dar es Salaam)

**Co-authors:** Dr ŠTOK, Marko (Jozef stefan institute); Dr MAZUNGA, Mohamed (University of Dar es Salaam)

**Track Classification:** Progress in radioecology

Contribution ID: 149

Type: POSTER

## Baseline Terrestrial Radioactivity around the Potential Nuclear Installation Sites in the Philippines

### Conference topic

Terrestrial radioactivity

**Author:** SAMANIEGO, Jessie (Department of Science and Technology - Philippine Nuclear Research Institute, Diliman, Quezon City, 1101 Philippines)

**Co-authors:** BAUTISTA VII, Angel (DOST - Philippine Nuclear Research Institute); Mr PALADIN, Carr Angelo (Department of Science and Technology - Philippine Nuclear Research Institute, Diliman, Quezon City, 1101 Philippines); Mr MENDOZA, Christopher (Department of Science and Technology - Philippine Nuclear Research Institute, Diliman, Quezon City, 1101 Philippines); PEREGRINO, Fern Rose (Department of Science and Technology Philippine Nuclear Research Institute); Dr ADIL, Jihan (Department of Environmental Engineering, College of Engineering, Western Mindanao State University, 7000 Zamboanga City, Philippines); QUIERREZ, Rico Neil (Department of Science and Technology - Philippine Nuclear Research Institute, Diliman, Quezon City, 1101 Philippines); Mr PIQUERO, Ronald (Department of Science and Technology - Philippine Nuclear Research Institute, Diliman, Quezon City, 1101 Philippines)

**Track Classification:** Radionuclide impact of nuclear facilities and their decommissioning on the environment

Contribution ID: 150

Type: **POSTER**

## **Radiological characterisation of building materials**

### **Conference topic**

Terrestrial radioactivity

**Author:** KOCSONYA, András (HUN-REN Centre for Energy Research)

**Track Classification:** Progress in environmental radioactivity studies

Contribution ID: 151

Type: **ORAL**

## **Exploring Anthropogenic Radioisotopes as Tracers in Oceanic and Climatic Studies**

### **Conference topic**

Radionuclides in Climate Change Studies

**Author:** QIAO, Jixin (Technical University of Denmark)

**Track Classification:** Radionuclides in climate change studies

Contribution ID: 152

Type: **ORAL**

## **DSc. PhD. prof**

### **Conference topic**

Radionuclides as tracers of environmental processes

**Author:** DŁUGOSZ-LISIECKA, Magdalena (Lodz University of Technology)

**Track Classification:** Radionuclides as tracers of environmental processes

Contribution ID: 153

Type: ORAL

## **The Effect of Radon-222 Escape on $^{210}\text{Pb}$ -Based Sediment Chronology: Implications for Dating Accuracy in Lacustrine Systems**

### **Conference topic**

Radionuclides as tracers of environmental processes

**Author:** Dr BEGY, Robert-Csaba (Babes-Bolyai University)

**Co-authors:** Ms NEMETI, Adreienn (Babes-Bolyai University); Dr MAGYARI, Enikő Katalin (Department of Environmental and Landscape Geography at Eötvös Lóránd University, Budapest, Hungary); Dr KORPONAI, Janos (National University of Public Service, Baja, Hungary)

**Track Classification:** Progress in environmental radioactivity studies

Contribution ID: 154

Type: **POSTER**

**Prof. Dr.**

**Conference topic**

Terrestrial radioactivity

**Author:** HAMIDEEN, Mefleh (Department of Scientific Basic Sciences, Faculty of Engineering Technology, Al-Balqa Applied University, Amman, Jordan)

**Track Classification:** Terrestrial radioactivity

Contribution ID: 155

Type: POSTER

## **Radiological characterization of building materials produced in Spain for compliance with external gamma dose limits**

### **Conference topic**

Other relevant topics

**Author:** PÉREZ BAEZA, Mireia (Laboratorio de Radiactividad Ambiental-Universidad Politécnica de Valencia)

**Co-authors:** Dr SÁEZ-MUÑOZ, Marina (Laboratorio de Radiactividad Ambiental-Universidad Politécnica de Valencia); Mrs SEVILLA, Aixa (Laboratorio de Radiactividad Ambiental-Universidad Politécnica de Valencia); Mr PALLÁS-TAMARIT, Yeray (Laboratorio de Radiactividad Ambiental-Universidad Politécnica de Valencia); Prof. MARTORELL, Sebastián (Laboratorio de Radiactividad Ambiental-Universidad Politécnica de Valencia)

**Track Classification:** Progress in environmental radioactivity studies

Contribution ID: 156

Type: **POSTER**

## **Improving the efficiency and performance of electrostatic collection for radon measurement**

### **Conference topic**

Progress in environmental radioactivity studies

**Author:** JAVED, MISBAH (Università degli studi della Campania Luigi Vanvitelli)

**Co-authors:** Ms IMPARATO, Chiara (Università degli studi della Campania Luigi Vanvitelli); Dr AMBROSINO, Fabrizio (Department of Physics “Ettore Pancini”, University of Naples Federico II, Naples); Prof. PUGLIESE, Mariagabriella (Department of Physics “Ettore Pancini”, University of Naples Federico II, Naples); Prof. ROCA, Vincenzo (Università degli studi della Campania Luigi Vanvitelli); Prof. SABBARESE, Carlo (Università degli studi della Campania Luigi Vanvitelli)

**Track Classification:** Recent developments in analytical technologies

Contribution ID: 157

Type: POSTER

## **Radon levels in highly NaCl / CaCO<sub>3</sub> mineralized karst mixed waters: the Case-Study of the Capodifiume Springs Group in the National Park of the Cilento and Vallo di Diano-European Geopark (Southern Italy)**

### **Conference topic**

Progress in radioecology

**Author:** GUIDA, Michele (University of Salerno, Italy)

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**Track Classification:** Terrestrial radioactivity

Contribution ID: 158

Type: **ORAL**

## **Detecting Environmental Pa-231 Using Accelerator Mass Spectrometry**

### **Conference topic**

Recent developments in analytical technologies

**Authors:** WALLNER, Anton (Helmholtz-Zentrum Dresden-Rossendorf, Dresden, Germany); PEREZ TRIBOUILLIER, Habacuc (ETH Zürich, Laboratory of Ion Beam Physics (LIP), Zürich, Switzerland); WOLF, Janis (Helmholtz-Zentrum Dresden-Rossendorf, Dresden, Germany); CHRISTL, Marcus (ETH Zürich, Laboratory of Ion Beam Physics (LIP), Zürich, Switzerland); FICHTER, Sebastian (Helmholtz-Zentrum Dresden-Rossendorf, Dresden, Germany); WINKLER, Stella (Helmholtz-Zentrum Dresden-Rossendorf, Dresden, Germany)

**Track Classification:** Recent developments in analytical technologies

Contribution ID: 159

Type: ORAL

## Development of a fast method using PSresins for the determination of $^{210}\text{Pb}$ in environmental samples

### Conference topic

Recent developments in analytical technologies

**Authors:** Ms HERRANZ, Aindara (Universitat de Barcelona); TARANCÓN SANZ, Alex (Universitat de Barcelona); BAGÁN, Héctor (Universitat de Barcelona); Mr GIMÉNEZ, Isaac (Universitat de Barcelona); Ms PUJOLS, Martina (Universitat de Barcelona)

**Track Classification:** Recent developments in analytical technologies

Contribution ID: 160

Type: ORAL

## **Citizen radiation monitoring: Building a resilient society while obtaining valuable data on natural radioactivity**

### **Conference topic**

Terrestrial radioactivity

**Author:** HELEBRANT, Jan (National Radiation Protection Institute (SÚRO))

**Co-authors:** Mrs ČEŠPÍROVÁ, Irena (National Radiation Protection Institute (SÚRO)); Mr GRYS, Lubomír (National Radiation Protection Institute (SÚRO)); Mrs NOVÁKOVÁ, Martina (National Radiation Protection Institute (SÚRO))

**Track Classification:** New challenges in the studies on environmental radioactivity

Contribution ID: 161

Type: POSTER

## Application of Solid Phase Extraction for Automated Sequential Separation of Radionuclides from Environmental Samples

### Conference topic

Recent developments in analytical technologies

**Author:** ILIEVSKI, Tomislav (Ruđer Bošković Institute)

**Co-authors:** Mrs KARANOVIĆ, Gorana (Ruđer Bošković Institute); Dr COHA, Ivana (Ruđer Bošković Institute); Dr TUCAKOVIĆ, Ivana (Ruđer Bošković Institute); Dr MAGDIĆ KOŠIČEK, Katja (Ruđer Bošković Institute); Dr GRAHEK, Željko (Ruđer Bošković Institute)

**Presenter:** ILIEVSKI, Tomislav (Ruđer Bošković Institute)

**Track Classification:** Recent developments in analytical technologies

Contribution ID: 162

Type: POSTER

## **Comparative analysis of spatial and depth wise distribution of uranium in groundwater of South-west & North-east region of Punjab state, India**

### **Conference topic**

Other relevant topics

**Authors:** Dr BAJWA, B S (Guru Nanak Dev University); SINGH, Dr. Satvir (Assistant Dean Research, HoD Applied Sciences Assistant Professor-Physics CT University, Ludhiana)

**Track Classification:** Progress in environmental radioactivity studies

Contribution ID: 163

Type: ORAL

## **Plutonium studies in the Southern Baltic Sea**

### **Conference topic**

Marine radioactivity

**Author:** Prof. STRUMINSKA-PARULSKA, Dagmara (University of Gdańsk)

**Track Classification:** Marine radioactivity

Contribution ID: 164

Type: POSTER

## **Discharge of radium isotopes into to the environment as a results of dewatering of underground coal mines in Upper Silesia, Poland**

### **Conference topic**

Other relevant topics

**Author:** BONCZYK, Michal (Silesian Centre for Environmental Radioactivity, GIG - National Research Institute)

**Track Classification:** Terrestrial radioactivity

Contribution ID: 165

Type: **ORAL**

## **Extreme solar and other cosmic events recorded in $^{14}\text{C}$ in tree rings**

### **Conference topic**

Radionuclides as tracers of environmental processes

**Authors:** Prof. MIYAKE, Fusa (Nagoya University); JULL, Timothy (University of Arizona)

**Co-authors:** Prof. WILES, Gregory (College of Wooster); Dr SLJUSARENKO, Igor (SBRAS Institute of Archaeology and Ethnography); Dr PANYUSHKINA, Irina (University of Arizona); Dr UUSITALO, Joonas (University of Helsinki); Dr MOLNAR, Mihaly (HUN-REN Institute for Nuclear Research); Dr WIESENBERG, Nicholas (College of Wooster); Prof. HANTEMIROV, Rashit (Institute for Plant and Animal Ecology); Dr VARGA, Tamas (HUN-REN Institute for Nuclear Research); Dr LIVINA, Valerie (National Physical Laboratory)

**Track Classification:** Radionuclides as tracers of environmental processes

Contribution ID: 166

Type: ORAL

## Isotopic signatures of artificial radionuclides: an important tool in today's world

### Conference topic

Radionuclides as tracers of environmental processes

**Author:** ŁOKAS, Edyta (Institute of Nuclear Physics Polish Academy of Sciences)

**Co-authors:** Mr WOJCIECHOWSKI, Kamil (Institute of Nuclear Physics Polish Academy of Sciences); Dr CWANEK, Anna (Institute of Nuclear Physics Polish Academy of Sciences); Dr SALA, Dariusz (Institute of Nuclear Physics Polish Academy of Sciences); KOŁTONIK, Katarzyna (Institute of Nuclear Physics Polish Academy of Sciences); Dr WACHNIEW, Przemysław (AGH University of Krakow)

**Presenter:** ŁOKAS, Edyta (Institute of Nuclear Physics Polish Academy of Sciences)

**Track Classification:** Radionuclides as tracers of environmental processes

Contribution ID: **170**

Type: **ORAL**

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**Conference topic**

Radionuclides in Climate Change Studies

**Author:** MRÓZ, Tomasz (The Henryk Niewodniczanski Institute of Nuclear Physics)

**Track Classification:** Radionuclides in climate change studies

Contribution ID: 178

Type: **ORAL**

## **Exploiting new advances in micro-extraction to improve the detection and quantification of environmentally relevant radionuclides**

### **Conference topic**

Recent developments in analytical technologies

**Author:** LARIVIERE, Dominic (Chemistry Department, Laval University)

**Track Classification:** Recent developments in analytical technologies

Contribution ID: 179

Type: ORAL

## **Anthropogenic radionuclides as tracers of climate change in the Pacific Ocean and its northwestern marginal seas**

### **Conference topic**

Radionuclides in Climate Change Studies

**Author:** HONG, GiHoon (East China Normal University)

**Co-authors:** Prof. TSUMUNE, Daisuke (University of Tsukuba); Prof. HIROSE, Katsumi (Laboratory for Environmental Research at Mount Fuji); Prof. POVINEC, Pavel (Comenius University); HOU, Xiaolin (Lanzhou University, School of Nuclear Science and Technology); ZHAO, Xue (Institute of Earth Environment, Chinese Academy of Sciences); Prof. INOMATA, Yayoi (University of Kanazawa)

**Track Classification:** Radionuclides in climate change studies

Contribution ID: **184**

Type: **ORAL**

## **Radiocarbon dating in wildlife forensics**

### **Conference topic**

Progress in radioecology

**Author:** PACHNEROVÁ BRABCOVÁ, Kateřina (Nuclear Physics Institute of the CAS)

**Co-authors:** KUFNEROVÁ, Jitka (Institute for Environmental Studies, Faculty of Science, Charles University); SVĚTLÍK, Ivo (Nuclear Physics Institute of the Czech Academy of Sciences)

**Track Classification:** Progress in radioecology

Contribution ID: 190

Type: ORAL

## **Distribution of $^3\text{H}$ and $^{14}\text{C}$ in the Pacific Ocean and its connection with climate change**

### **Conference topic**

Radionuclides in Climate Change Studies

**Author:** KAIZER, Jakub (Faculty of Mathematics, Physics and Informatics, Comenius University in Bratislava)

**Track Classification:** Radionuclides in climate change studies