

9ICI CONFERENCE SCHEDULE 12 – 16 NOVEMBER 2017

The conference will take place on first floor of Marriott Marquis, City Centre, Doha

SUNDAY 12 NOVEMBER 2017 Foyer, 1st Floor

14:00 – 18:00 Conference Registration

Registration opens Sunday 12th November at 14:00

If you are already in Qatar on Sunday, we encourage you to register on Sunday to get your badge, conference prospectus and all information about the coming up week

18:00 - 20:00 Welcome Reception and Networking Event

The Welcome Reception on Sunday evening will be a wonderful opportunity to network with and get to know conference delegates, who have come from all over the world to attend the 9th International Conference on Isotopes. This will take place in the Marriott Marquis hotel, the venue of the ensuing sessions over the following days. Business casual dress is recommended.

18:00 - 20:00 Exhibition and Posters

MONDAY 13 NOVEMBER 2017 Foyer, 1st Floor

7:30 Registration Foyer, 1st Floor

OPENING PLENARY

Al Areen 3 Hall

Chair: Ilham Al-Qaradawi, Qatar, Paul Dickman, USA

8:30

WELCOME REMARKS

- His Excellency Mohammad Bin Abdullah Al-Rumaihi, Minister of Municipality and Environment
- Prof. Ilham Al-Qaradawi, 9ICI Chair
- Van Zyl De Villiers, WCI President
- Dr. Abdul Sattar Al-Taie, QNRF Director
- Dr. Deepak Kaura, Executive Chair, Foundation Medical Services, Sidra Medicine
- Prof. Mariam Al-Maadeed, VP for Research & Graduate Studies, Qatar University

9:30 Mary Alice Hayward, Deputy Director General, IAEA
Global Perspective, Local Needs: My Reflections on the Role of Isotopes in the World

10:00 Coffee Break & Networking Foyer, 1st Floor

PLENARY SESSION Al Areen 3 Hall

FOCUS ON THE FUTURE

10:30 Mark Lesinki, Canadian Nuclear Laboratories
Isotopes from Canadian Nuclear Laboratories: A Proud Legacy with a Bright Future

11:00 Boris Zhuikov, Institute for Nuclear Research of Russian Academy of Sciences, Russian Federation
Production of Medical Radioisotopes in Russia: Prospects for Global Collaboration

10:30 Syed M. Qaim, Forschungszentrum Juelich, Germany
Development of Non-Standard PET Radionuclides

12:00 **Group Photo**

12:10 **Lunch and Networking**

Session 1: Accelerator Produced Isotopes

Al Areen 3

Chairs: Ferid Haddad; France, Ioannis Delakis; Qatar

13:00 Juan Esposito, Giovanni Florentini; INFN -Legnaro National Laboratories, Italy Laramed

A New High-Energy Cyclotron Facility for the Production of Unprecedented Radionuclides or Medicine

13:20 Maxim Kiselev; Zevacor, USA

Production of Medical Isotopes Using 70 MeV Cyclotro from IBA at New Zevacor Facility in Indianapolis, USA

13:40 Susanta Lahiri, Dibyasree Choudhury, Nabanita Naskar, Melanie Delonca, Thierry Stora, Joao Pedro Ramos, Elodie Aubert, Alexandre Dor-sival, Joachim Vollaire, Ricardo Augusto, Alfredo Ferrari; Saha Institute of Nuclear Physics, India

Production and Estimation of ^{209}At by Secondary Particle Reaction from 1.4 GeV Proton Irradiated Lead-Bismuth

14:00 Roberto Formento Cavaier, Haddad Ferid, Zahi Ilyes, Stora Thierry, Sounalet Thomas

Advanced Accelerator Application, France High Specific Activity Cyclotron Produced Scandium-47

14:20 Zeynep Talip, Rugar Dressler, Jean Christophe David, Christof Vockenhuber, Elisabeth Muller, Erik Strub, Dorothea Schumann; Paul Scherrer Institute, Switzerland
Determination of the Long-Lived Radionuclides from Proton-Irradiated Heavy Metal Targets

Session 2: Special Topic Panel: Reducing the Risk of High-Risk Isotopes for Non-Proliferation and Nuclear Security

Al Areen 1

13:00 **Moderators: Miles Pomper; Senior Fellow, James Martin Center for Nonproliferation, Ioanna Iliopoulos, Senior Consultant, Nuclear Threat Initiative, USA**

Panellists:

Miles Pomper; Senior Fellow, James Martin Center for Nonproliferation, USA

Ioanna Iliopoulos, Senior Consultant, Nuclear Threat Initiative, USA

Fabien Feron; French Nuclear Safety Authority (ASN), France

Jacob Kamen; Chief Radiation & Laser Safety Officer, Mount Sinai Medical Center, USA

Ira Goldman; Senior Director, Lantheus Medical Imaging, USA Gary DeLeon; Director, Edlow International, USA

14:40 – 16:00 **Poster Session**

15:00 **Coffee Break & Networking**

Foyer, 1st Floor

Session 3: Accelerator and Reactor Produced Isotopes

Al Areen 3

Chairs: Boris Zuikov, Russia, Cathy Cutler, USA

16:00 Tetsuya K. Sato; Japan Atomic Energy Agency, Japan

Measurement of the First Ionization Potentials of Heavy Actinides

16:20 Ferid Haddad, Guertin, Metivier, Duchemin, Michel; Subatech / GIP Arronax, France

Constraining the Talys Code Using Data Collected for Medical Applications

16:40 Muhammad Shahid; Pakistan Nuclear Regulatory Authority, Pakistan

Study of Co-59(p,x) Reaction and Measurement of Production

Excitation Functions of Ni-56,57, Co-55,56,57,58, Mn-54,56, Cr-51

17:00 Ichiro Nishinaka, Kazuyuki Hashimoto, Hiroyuki Makii; National Institutes for Quantum and Radiological Science and Technology, Japan

Rn-211/At-211 Generator Based on Dry-Chemistry

- 17:20** Emilio Andrea Maugeri, Paul Scherrer; Institut Switzerland
Use of 7Befor Nuclear Astrophysics Studies
Determination of the Long-Lived Radionuclides from Proton-Irradiated Heavy Metal Targets
- 17:40** Yury Toporov, Rostislav A. Kuznetsov, Evgeny G. Romanov, Valery; ROSA-TOM, Joint Stock Company Isotope, Russian Federation.
Production of Cf-252 by Irradiating Bk-249 and Cf-249
- Session 4: Industry and Agriculture** Al Areen 3
Chairs: Richard Howard, USA, Hassan Kharita, Qatar
- 16:00** Achim Kleinrahm; ZAG Zyklotron AG, Germany
Installations at and Services of ZAG Zyklotron AG for Development and Production of Innovative, Radioactive Products of Highest Quality for Medical Applications and Mechanical Engineering
- 16:20** Daqian Hei, Can Cheng, Wenbao Jia; Nanjing University of Aeronautics and Astronautics, China
Feasibility Study for Determining Elemental Composition of Iron Ore with a New PGNA Setup
- 16:40** Nannan Zhao, Beijing Hualixing Sci-Tech Development Co. Ltd, China
Radiation Source Online Monitoring System
- 17:00** Xiaojing Guo, Litao Li, Peng Cong; Tsinghua University, China
Drive-Through Passenger Vehicle Inspecting System Using Cobalt-60 And High-Pressure Gas Array Detector
- 17:20** Ma Samad Khan; Bangladesh Agricultural University, Mymensingh, Bangladesh
Study on Reproductive Performance of Indigenous Cows by Using Isotopes
- 17:40** Mohammed Haji; Minister of Municipality & Environment, Qatar
The regulatory authority in Qatar and its legislative and regulatory role on nuclear and radiological safety and security

TUESDAY 14 NOVEMBER 2017

Foyer, 1st Floor

7:30 Registration Foyer, 1st Floor

MARIE CURIE PLENARY

Al Areen 3

Chair: Mary Alice Hayward, IAEA, Ilham Al-Qaradawi, Qatar

- 08:25** **OPENING REMARKS**
 Eric Chevallier; Ambassador of France in Qatar
- 08:30** Jean-Louis Alberini, Institut Curie, France
Marie Curie, a Committed Woman

- 09:00** Virginia Tsapaki; Secretary General for the International Organization for Medical Physics (IOMP), Konstantopoulio General Hospital, Greece
Medical Physics: Innovation and Technology Advances for the Benefit of Women Patients and Staff
- 09:30** Monica Regalbuto; Idaho National Laboratory, USA
Nuclear Sciences: A Personal Journey and Unplanned Lifetime of Service

10:00 Coffee Break & Networking Foyer, 1st Floor

ICI Special Topics

Al Areen 1

Chairs: Monica Regalbuto; Idaho National Laboratory, USA, Luo Zhifu. China

- 10:30** Meera Venkatesh, Joao Osso Junior, Amir Jalilian, Patrick Brisset, Arjan Koning, Marco Verpelli; IAEA, Austria
The Role and Activities of the IAEA in Promoting Nuclear Applications - Focus on Production and Use of Radioisotopes
- 11:00** Simon Jerome; National Physical Laboratory, UK
Evolution and Outcomes from NPL Low-Level Radioactivity Measurement Proficiency Testing
- 10:30** Xiaolin Hou; Technical University of Denmark, Center for Nuclear Technologies, Denmark
Characterisation of Materials for Decommissioning of Isotope Production Facilities

Special Session:

Al Areen 3

International Day of Medical Physics

Chairs: Virginia Tsapaki, Greece, Huda Al Naemi, Qatar

- 10:30** Huda. Al-Naemi, Hamad Medical Corporation, Clinical Imaging & Occupational Health and Safety, Qatar
IN MEMORY OF MARIE CURIE
- 10:45** Hassan Kharita, Hamad Medical Corporation, Qatar
Medical Physics Society in Qatar. Hassan Kharita
- 11:00** Virginia Tsapaki; International Organization for Medical Physics (IOMP), Konstantopoulio General Hospital, Greece
IOMP Women survey data

11:15 Rabih W.Hammoud; Hamad Medical Corporation, Qatar
Medical Physicists Certification Process and Examination in the Middle East

11:30 Nabil Iqeillan, Occupational Health and Safety, Hamad Medical Corporation, Qatar

Medical Physics Education and Training in MEFOMP Countries

11:45 Hanan AlDousari; Medical Physics Unit, Radiation Safety, Jaber AlAhmed Center for nuclear medicine, Kuwait
The role of medical physicist in Kuwait

12:00 Lunch and Networking

Session 5: Production of PET Radionuclides

Al Areen 3

Chairs: Syed Qaim, Germany, James O' Doherty, Qatar

13:00 Cathy Cutler, Anthony Degraffenreid; Brookhaven National Laboratory, USA

Long-Lived PET Generator Diagnostics

13:20 Sandrine Huclier, C. Alliot, M. Pageau, Ferid Haddad; Laboratoire Subatech & ARRONAX France

Novel Positron Emitters via Generator System: A Focus on Sc-44m/Sc-44

13:40 Shuza Uddin, S. M. Qaim, G. N. Kim; Bangladesh Atomic Energy Commission, Bangladesh

Investigation of Novel Routes for Production of Nonstandard Positron Emitters Cu-61 and Cu-64

14:00 Susanta Lahiri, Nabanita Naskar; Saha Institute of Nuclear Physics, India

Production and Separation of Non-Standard Rare Earth PET Isotopes by Heavy Ion Activation

14:20 Mazhar Hussain, Muhammad Naveed Aslam, Nouman Amjed, Haleema Zainab,

Syed M Qaim; GCU-Lahore and University of Milan, Pakistan

Evaluation and Standardization of Charged Particle Induced Reaction Cross Sections Data for the Production of Some Non-standard PET Radionuclides

14:40 Hadi Fayad, Hamad Medical Corporation, Qatar
PET/CT: Going Beyond FDG

Session 6: Isotopes in the Environment

Al Areen 1

Chairs: Raymond Cao, USA, Hiromitsu Haba, Japan

13:00 Steven Biegalski; Georgia Institute of Technology, USA

Development of Urban Canyon Debris Sample for Gamma Ray Spectroscopy

- 13:20** Takahiro Nakanishi; Japan Atomic Energy Agency, Japan
Spatiotemporal Variation of Radio-Cesium in the Water System in Fukushima Prefecture
- 13:40** Hiroshi Kurikami; Japan Atomic Energy Agency, Japan
Models on Radiocesium Migration in the Surface Water System in Fuku-shima Prefecture
- 14:00** Timothy Payne, ANSTO, Australia
Legacy Low Level Radioactive Waste Disposal Sites - An International Approach
- 14:20** Sani Kasim; Nigeria
Evaluation of Efficiency of a Setup Designed for Analysis of Radon Using Electronic Radon Detector
- 14:40** Hadi Fayad, Hamad Medical Corporation, Qatar
PET/CT: Going Beyond FDG

15:00 Coffee Break & Networking Foyer, 1st Floor

Session 7: Nuclear Medicine

Al Areen 3

Chairs: Ira Goldman; USA; James O' Doherty, Qatar

- 15:30** Gilbert Gonzales; Serene, LLC, USA
Nuclear Medicine Applications of the Novel Theranostic Isotope Sn-117m
- 15:50** Nigel Stevenson, Cynthia A. Doerr, Gilbert R. Gonzales; Serene, LLC, USA
Retention and Radiation Field of a Sn-117m Colloidal Suspension in Canine Intra-Articular Injections
- 16:10** Juan C Manrique; Mexico
Radiation Dosimetry in Healthy Subjects of Ga-68-[Lys1-Lys3(Dota)-Bombesin, a Potential Theranostic Tracer in Oncology
- 16:30** Ladislav Viererbl; Research Centre Rez Ltd., Czech Republic
K-42 Radionuclide as a High Energy Beta Radiation Source for Eye Cancer Treatment
- 16:50** Luis Ocampo Gir, K. Unlu; Pennsylvania State University, USA
Use of Isotopes to Validate Sub-Pixel Resolution with Timecorrelated Transient Signals in Pixelated CdZnTe Gamma Ray Sensors
- 17:10** Nigel Stevenson; Serene, LLC, USA
Simulation of Sn-117m Radiosynoviorthesis Including Phagocytotic Migration within
- 17:30** Slimane Semghouli; Higher Institute of Nursing Professions and Health Techniques, Agadir, Morocco
Radiation Exposure During Paediatric CT Procedures in Ibn Sina Children's Hospital of Rabat

Session 8: Isotopes in the Environment

Al Areen 1

Chairs: Timothy Payne, ANSTO, Australia, Paul Dickman, USA

15:30

Mayeen Khandaker, Saleh Mansoor Hussein; University of Malaya, Malaysia

Evaluation of Radon Concentration in Irrigation and Drinking Waters from Eastern Part of Oman Using Nuclear Track Detectors and Estimation of Corresponding Doses to Human Health

15:50

Hauwau Kulu Shuaibu. A. S. Arabi; Bauchi State University Gadau, Nigeria

Evaluation of Levels of Radon Isotopes and Effectiveness of Traditional Mitigation

Measure for Radon Contaminated Groundwater

16:10

Ji Young Han; Daegu Catholic University, Korea

A Study on the Derivation of Items for the Establishment of Standard Procedures on Residual Radioactivity Measurement

16:30

Suleiman, I Babale; Department of Geology, Bayero University, Kano-Nigeri Nigeria

Radon and Groundwater Chemistry from Areas of High Radiometric Amplitudes

WEDNESDAY 15 NOVEMBER 2017

Foyer, 1st Floor

7:30

Registration

Foyer, 1st Floor

Session 9: Nuclear Medicine continued

Al Areen 3

Chairs: Simon Jerome; UK, Susanta Lahiri; India

08:30

Nigel Stevenson; Serene, LLC, USA

Novel Treatments for Arthritis In Humans and Animals Using Sn-117m Colloids and Labelled Molecules

08:50

Jim O' Doherty; King's College London, UK

Whole Body Radiation Dosimetry of a New PET Probe (18F-TFB) for Imaging of Sodium Iodide Symporter Expression

Session 9: ECONOMICS, SAFETY, AND SECURITY

- 09:10** Yeo Ryeong Jeon; Korea
A Study on the Risk Assessment of Radiation Terrorism in the Republic of Korea Using the Global Incident and Trafficking Database
- 09:30** Jim O' Doherty, Ioannis Delakis, Kellie Smith; Sidra Hospital, Qatar
Practical Aspects of Staff Radiation Safety in a New Nuclear Medicine Facility
- 09:50** Da Yeong Gwon; Korea
A Study on the Main Factors of Radiation Risk Index Model for Assessing the Risk in Radiation Workplace

Session 10: Isotope Devices, Isotope Tracers and Other Applications

Al Areen 1

Chairs: Bernhard Ponsard; Belgium, Peter D'Amico; Canada

- 08:30** Ira Goldman; Lantheus Medical Imaging, USA
Enhancing the Supply of Isotopes for Medicine and Industry
- 08:50** Abdulmajeed Ibrahim; Nigerian Nuclear Regulatory Authority, Nigeria
The Need for Radio Isotopes Production in Sub Sahara Africa For Sustainable Development in the Application of Radiation Science and Technology: Case Study Nigeria
- 09:10** Hiromitsu Haba; RIKEN, Japan
Production of Radioisotopes for Application Studies at Riken Ri Beam Factory
- 09:30** Lei Cao, Shelly Li; The Ohio State University, USA
Na-22 as a Tracer to Measure Molten Salt Mass
- 09:50** Richard Howard; Oak Ridge National Laboratory, USA
Establishing a Process for Qualifying Additively Manufactured Irradiation Targets to Produce Radioisotopes

10:10

Coffee Break & Networking

Foyer, 1st Floor

WCI President's Forum

Al Areen 3

Chairs: Van Zyl de Villers, WCI President, Nigel Stevenson, WCI President Elect

10:40

Panelists:

Tina Eboka; NTP Radioisotopes SOC Ltd, South Africa

The Sustainability Path: Safety, Security and Supply In High-Volume

[Commercial] Radioisotope Production

Corey Hinderstein; Institute of Nuclear Materials Management; and National

**Nuclear Security Administration, U.S. Department of Energy, USA
International Safeguards, Non-Proliferation and Nuclear Security
Issues of Relevance to the Isotope Value Chain**

Bernard Ponsard; AIPES Security of Supply Working Group; and BR-2 Reactor, Belgium

Perspectives from the High-Level Group on the Security of Supply of Medical

Radioisotopes and the Association of Imaging Producers and Equipment Suppliers

Ramzi Jammal; Canadian Nuclear Safety Commission, Canada

The Regulatory Perspective on Radioisotopes

Brigadier Hassan Saleh Al-Nesf; National Committee for the Prohibition of Weapons, Qatar

Qatar's Perspective on Non-Proliferation and Nuclear Security as Applicable to the Production, Distribution and Application of Radioisotopes

Aisha AlBakir; Minister of Municipality & Environment, Qatar

The regulatory authority in Qatar and its legislative and regulatory role on nuclear and radiological safety and security

12:00

Shri. Anil K.Anand; President, National Association For Application Of Radioisotopes And Radiation in Industry (NAARRI)

Introduction to NAARRI and NAARRI International Conference on State of The Art Radiation Processing (NICSTAR-18)

12:10

Lunch and Networking

14:00

Cultural Tour

19:00

Gala Dinner

THURSDAY 16 NOVEMBER 2017

Foyer, 1st Floor

7:30

Registration

Foyer, 1st Floor

Session 11: Economics, Safety, and Security

Al Areen 1

Chairs: Steve Biegalski; USA, Gary DeLeon; USA

- 08:30** Ira Goldman; Lantheus Medical Imaging, USA
Securing a Reliable Supply of Mo-99 and Tc-99m
- 08:50** William Stewart, John Zarling, Michael Schultze; Los Alamos National Laboratory, USA
Office of Radiological Security Transportation Security Efforts
- 09:10** Maddalena MaiettaSebastien Avila; Lemer Pax, France
Cost-Effective Design Strategies for a Type B Container Based on Numerical Calculations
- 09:30** John Zarling; Idaho National Lab, USA
Office of Radiological Security- Off Site Source Recovery Program Solution to Shipping Challenges of High Activity Sealed Radioactive Sources
- 09:50** Vitaly Fedchenko; Stockholm International Peace Research Institute (SIPRI), Sweden
Isotope Science's Contribution to Nuclear Security, Nuclear Non-Proliferation and Arms Control

Session 12: Reactor and Alternate Production of Isotopes

Al Areen 1

Chairs: Jan Rijn Zeevaart; South Africa, Abdulmajeed Ibrahim; Nigeria

- 08:30** Bernard PonsardJaime Simón, Zech Sandlin, Nigel R. Stevenson; SCK.CEN / BR2 Reactor, Belgium
Production and Preparation of Sn-117m from the BR2 Reactor
- 08:50** Richard Howard; Oak Ridge National Laboratory, USA
Design and Qualification of Irradiation Targets for Isotope Production in Research Reactors
- 09:10** Yury Toporov; ROSATOM, JSC, Russian Federation
Production of Californium-252 in the High-Flux Reactor SM
- 09:30** Arjan Bos; URENCO Nederland B.V.,
The Netherlands Stable Isotopes Enrichment at Urenco Nederland: 25 Yearsof Development and Progress
- 09:50** Giorgia De Guido; Politecnico di Milano, Italy
Simulation of Multicomponent Isotope Distillation for N-15 Production

10:10 Coffee Break & Networking

Foyer, 1st Floor

CLOSING PLENARY

Al Areen 3

Chairs: Myung-Chul Lee; Korea, Van Zyl de Villers; IAEA

- 10:40** Nigel Stevenson; Serene LLC USA
Radiosynoviorthesis: Radioisotope Therapy for Arthritic Conditions
- 11:00** Jan Rijn Zeevaart; South African Nuclear Energy Cooperation South Africa
Current Applications of Ga-68 and the Window it Opens for the Theranostic Approach
- 11:20** David Smith; International Atomic Energy Agency, Austria
The Science of Signatures: Isotopes Applied to Nuclear Forensics
- 11:40** **Closing Remarks:**
Ilham Al-Qaradawi, 9ICI Chair
Nigel Stevenson, WCI President
10 ICI Host Presentation

12:10 **Lunch and Goodbyes**

13:00 **Optional Technical Tour**

End of 9ICI

Poster Presentations

Screen 1: Isotope Production

Extraction of ^{227}Ac From Irradiated Radium Targets To Produce $^{223}\text{RaCl}_2$

Pavel S. Butkaliuk, Rostislav A. Kuznetsov, Irina L. Butkaliuk

Joint Stock Company, SSC RIAR, Russian Federation

Production of Sr-89

Pavel S. Butkaliuk, Rostislav A. Kuznetsov, Valery A. Tarasov, Evgeny G. Romanov

Joint Stock Company, SSC RIAR, Russian Federation

Production of $^{223}\text{RaCl}_2$ FROM ^{227}Ac : Impurity Content Measurement

Pavel S. Butkaliuk, Rostislav A. Kuznetsov, Irina L. Butkaliuk, Alexander V. Kupriyanov,

Joint Stock Company, SSC RIAR, Russian Federation

Extraction of ^{226}Ra and ^{210}Pb From Old Radium Sources

Pavel S. Butkaliuk, Irina L. Butkaliuk, Rostislav A. Kuznetsov

Joint Stock Company, SSC RIAR, Russian Federation

Production of ^{252}Cf by Irradiating ^{249}Bk and ^{249}Cf

Pavel S. Butkaliuk, Valery A. Tarasov, Evgeny G. Romanov, Yury G. Toporov, Rostislav A. Kuznetsov, Alexey V. Kupriyanov, Alexey L. Petelin

Joint Stock Company, SSC RIAR, Russian Federation

Screen 2: Isotope Production

Radio-Isotope Production Facility Based on Komac 100-Mev Proton Linac

Kye-Ryung Kim, Myung-Hwan Jung, Won-Je Cho, Sang-Pil Yun, Yi-Sub Min, Hyeok-Jung Kwon, Yong-Sub Cho

Korea Atomic Energy Research Institute, Gyeongju, Korea

A Prediction Model of I-131 Curies Based on Molybdenum-99 Curies Produced in the Safari-1 Reactor

Martin Sekgodi

NTP Radioisotopes SOC Ltd, South Africa

A Separate Method For Improving Enrichment of Marginal Components of Isotopes^{[1][2]}

Cong Yi-kun, Xie Qing

Institute of Physical and Chemical Engineering of Nuclear Industry, Tianjin, China

Screen 3: Isotope Production

Medicis-Promed: Innovative Radionuclides For Medicine Applications

Roberto Formento Cavaier, Maddalena Maietta and the Medicis Promed collaboration

Subatech, Arronax, France

ORIP_XXI SOFTWARE TO SUPPORT RADIONUCLIDES PRODUCTION

Yury Toporov, Russian Federation, 433510, Ulyanovsk region, Dimitrovgrad, Zapadnoye

REACTOR XENON LOOP FOR IODINE-125 PRODUCTION

Yury Toporov, Russian Federation, 433510, Ulyanovsk region, Dimitrovgrad, Zapadnoye

UPGRADING OF ¹³¹I PRODUCTION FROM IRRADIATED TELLURIUM OXIDE AT JSC "SSC RIAR"

Yury Toporov, Russian Federation, 433510, Ulyanovsk region, Dimitrovgrad, Zapadnoye

Screen 4: Environmental Applications

Tritium Measurement in Water Samples From Mangrove Habitat of Indian Sundarban

Susanta Lahiri, Nabanita Naskara, Punarbasu Chaudhuri, Sayantani Mitra

Saha Institute of Nuclear Physics, Kolkata, India

Use of Soluble Aerosol Filters in Liquid Scintillation Spectroscopy

Ivan.V. Buryanenko, A.B. Rogozev, B.I. Rogozev, Y.A. Tychinkin, S.V. Sepman, S.V. Malinovsky, RITVERC GmbH, D.I.Mendeleyev Institute for Metrology, FSUE, Russian Federation

Point-Tape Radioactive Source For Radioactive Level Gauges

Alexander V. Punin, Andrew E. Kozlov, Vasily V. Lobanov, Yuri V. Lobanov, Andrew B. Rogozev, Mikhail Yu. Silin, Mikhail V. Mironov, Andrew V. Koptev, Lev I. Orlov.

Aleksandr A. Bespokoiev, Vladislav Yu. Tselovalnikov, RITVERC GmbH, EcoPhysPribor ZAO, Russian Federation

Effective Dose Rate from the Naturally Occurring Radionuclides in Soils

Feng-Yun J. Huang, Fang-Yuh Hsu, Jiunn-Hsing Chao, National Tsing Hua University, Hsinchu, Taiwan^[1]

Screen 5: Industrial Applications

Uranium Is Nuclear Material? Or Radioisotope? In Korean Nuclear Safety Act.

Young Sub Lee, Min Cheol Song, Sang Hyun Park, Min Kyung Kim, Hyun Suk Yoon, Hwe In Kim, Jaeho Lee, Jae Kwon Jang, Korea Institute of Nuclear Safety, Daejeon, Republic of Korea

Miniaturized Delay Bed System For Radioxenon From Fission Mo-99 Production Process

Suseung Lee, Seung-Kon Lee, Ul Jae Park, Soon-Bog Hong, Kyung-Duk Jang, Myunggoo Kang and Jun Sig Lee, Korea Atomic Energy Research Institute, Daejeon, Republic of Korea

Numerical and MCNP Simulation for Pebble Dynamics Detection CT in HTR

Authors; Lu Jianchao, Liu Xi-ming, Wu Zhi-fang

Tsinghua University, Beijing, China

Screen 6: Dosimetry

Dose Analysis For Paediatric Patients Undergoing Cardiac Catheterization At Hamad General Hospital At The State Of Qatar

Huda.M. Al Naemi, Hesham.A. Al-Saloos, Antar.E.Aly^[1]

Hamad Medical Corporation, Doha, Qatar^[1]

Staff Radiation Doses in Interventional Cardiology Procedures at Hamad Medical Corporation Hospitals in Qatar

Huda M. Al-Naemi, Mohamad H. Kharita and Antar. E. Aly

Hamad Medical Corporation, Doha, Qatar

Comparison of Radiation Dose from Voiding Cystourethrogram and Direct Radionuclide Cystogram in Assessment of Vesicoureteric Reflux

Mohamad A. Hamza, Nabil.Iqeillan, Tahiya S.Ahmed, Huda.M.Al Naemi

Hamad Medical Corporation, Doha, Qatar

New Protocol to Reduce Fetal Radiation Dose During Prophylactic Balloon Insertion in Pregnant Patients With Abnormal Placental Adherence

A. Barah, A. Abualruz, M.B. Gomaa, A. Almuzrakchi, V. Chavan, O. Almokdad, N. Iqeillan, H. Al-Naemi, A. Omar , Hamad Medical Corporation, Doha, Qatar

Optimization of PET/CT Examination and Patient Dose Management

Authors; Hanan Aldousari, Jaber AlAhmed Center for Nuclear Medicine, Kuwait

Screen 7: Dosimetry

Radioactive Waste Management in Hamad Medical Corporation Hospitals

Antar E. Aly, Mahmoud A. Tarabieh, Mohamad H. Kharita and Huda M. Al-Naemi, Hamad Medical Corporation, Doha, Qatar^[SEP]

Patient Doses Assessment for Pediatric Patients for some Digital Diagnostic Radiology Examination in Emergency Department in Hamad Medical Corporation

Huda M. Al Naemi Ibrahim I. Abdallah, Antar E. Aly, Mohammed H. Kharita, Hamad Medical Corporation, Doha, Qatar^[SEP]

A Comparative Study On Type Of Shielding Material For Low Loaded Molybdenum-99/Tchnetium-99m Generators Against High Loaded Molybdenum-99/Tchnetium-99m Generators

Kunjulwa Garrine, NTP Radioisotopes SOC Ltd, South Africa

Optimal Respiratory Motion Correction Through the Use of a Patient Respiratory Motion Model

Hadi Fayed, Dimitris Visvikis, Hamad Medical Corporation, Doha, Qatar

Device associated infection rate in a medical-surgical critical care unit

Zulfadhli Zaini,

Screen 8: Medical Applications

Evaluation of Co-cross-linking Hydrogels for Local Delivery ¹⁸⁸Re-dox-nanoliposome Drugs in Breast Tumor Bearing Mice

Feng-Yun J. Huang, Cheng-Chieh Hung, Jiunn-Hsing Chao, Tsai-Yueh Luo, Bor-Tsung Hsieh , National Tsing Hua University, Central Taiwan University of Science and Technology, Institute of Nuclear Energy Research, Taiwan

Geometric Accuracy of the MR Imaging Techniques Used for Respiratory Motion

Tarra Torfeh, Rabih Hammoud, Maeve McGarry, Tarek El Kaissi, Souha Aouadi, Noora Al-Hammadi, Hamad Medical Corporation, Doha, Qatar^[SEP]

Evaluation of Dixon Type MRI Sequence for Soft Tissue Segmentation in the Pelvis

Rabih Hammoud, Maeve McGarry, Tarraf Torfeh, Souha Aouadi, Primoz Petric, Noora Al-Hammadi, Hamad Medical Corporation, Doha, Qatar^[1]_[SEP]

Phantom-based evaluation of diffusion-weighted imaging with head & neck coil

Tarraf Torfeh, Rabih Hammoud, Maeve McGarry, Souha Aouadi, Noora Al-Hammadi
Hamad Medical Corporation, Doha, Qatar