

Program

Feb 15 - 19, 2026

ISOTOPIC TIME MACHINE
FROM CULTURAL HERITAGE
TO SUSTAINABLE FUTURE



12th International Conference on Isotopes - 12ICI

Grand Hotel Mediterraneo
Lungarno del Tempio, 44 - 50121, Firenze

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Sun, February 15

2:00 PM

Sun, February 15

2:00 – 6:00 PM

6:00 PM

13ICI Bidding Evaluation & WCI EC Meeting

Session | Location: Grand Hotel Mediterraneo, Pacifico Room

2:00 PM
6:00 PM

Sun, February 15

2:00 – 6:00 PM

Registration & Welcome
Session | **Location:** Grand Hotel Mediterraneo, Lungarno del Tempio, 44 - 50121, Firenze

6:00 PM

Sun, February 15

6:00 – 7:00 PM

7:00 PM

Opening Ceremony & COMECER Scientific Boot Camp Awards

Session | **Location:** Grand Hotel Mediterraneo, Plenaria: Europa-Asia-Africa Room | **Conveners:** Flavia Maria Groppi (Istituto Nazionale di Fisica Nucleare), Mario Malinconico (COMECER S.p.A. - R&D Department), Paul T. Dickman (WCI), Gaia Pupillo (Istituto Nazionale di Fisica Nucleare)

7:00 PM

Sun, February 15

7:00 - 9:00 PM

9:00 PM

Welcome Reception
Session | **Location:** Grand Hotel Mediterraneo

Mon, February 16

8:30 AM

Mon, February 16

8:30 – 9:15 AM

9:15 AM

Welcome addresses

Session | **Location:** Grand Hotel Mediterraneo, Plenaria: Europa-Asia-Africa Room | **Conveners:**

Paul T. Dickman (WCI), Flavia Maria Groppi (Istituto Nazionale di Fisica Nucleare), Marta Pieralli (Fondazione Destination Florence), Giovanni Passaleva (Istituto Nazionale di Fisica Nucleare), Debora Berti (Università degli Studi di Firenze)

9:15 AM

Mon, February 16

9:15 – 10:45 AM

Institutional keynote speakers

Session | **Location:** Grand Hotel Mediterraneo, Plenaria: Europa-Asia-Africa Room | **Conveners:** Flavia Maria Groppi (Istituto Nazionale di Fisica Nucleare), Meera Venkatesh

9:15 – 9:35 AM (20m)

Institutional Contribution from NEA

Speaker

William D. Magwood, IV (Nuclear Energy Agency - NEA)

9:35 – 9:55 AM (20m)

Institutional Contribution from IAEA - "Harnessing isotopes for global benefits: The IAEA role and vision"

Speaker

Najat Mokhtar (IAEA)

9:55 – 10:15 AM (20m)

Institutional Contribution from INFN - "The INFN Mission: from fundamental physics to applied physics for society"

Speaker

Oscar Adriani (Istituto Nazionale di Fisica Nucleare)

10:15 – 10:35 AM (20m)

Institutional Contribution from ISIN - "ISIN, the Italian regulatory competent authority's expertise with a vision for the future"

Speaker

Massimo Altavilla (Head of the Support Section for Technical Activities, Research, and Development Italian National Inspectorate for Nuclear Safety and Radiation Protection - ISIN)

10:45 AM

10:45 AM

Mon, February 16

10:45 - 11:00 AM

11:00 AM

Photo of all participants

Session | **Location:** Grand Hotel Mediterraneo, Lungarno del Tempio, 44 - 50121, Firenze

11:00 AM

Mon, February 16

11:00 - 11:30 AM

11:30 AM

Coffee break

Session | **Location:** Grand Hotel Mediterraneo, Lungarno del Tempio, 44 - 50121, Firenze

11:30 AM

Mon, February 16

11:30 AM – 12:45 PM

Plenary Session "Advances in Isotope Production and Applications" - Monday

Session | **Location:** Grand Hotel Mediterraneo, Plenaria: Europa-Asia-Africa Room | **Conveners:** Oscar Adriani (Istituto Nazionale di Fisica Nucleare), Renata Mikolajczak (Polatom NCBJ)

Description

Advances in Isotope Production and Applications

11:30 AM – 12:00 PM (30m)

ISOTOPES AND ELEMENTS FOR PAST AND FUTURE

Speaker

Mariaelena Fedi (Istituto Nazionale di Fisica Nucleare)

12:00 – 12:30 PM (30m)

NEW TRENDS IN PRODUCTION OF NOVEL MEDICAL RADIONUCLIDES

Speaker

Prof. Syed M. Qaim (Forschungszentrum Jülich)

12:45 PM

12:50 PM

Mon, February 16

12:50 – 1:20 PM

Sponsor Session

Session | **Location:** Grand Hotel Mediterraneo, Plenaria: Europa-Asia-Africa Room | **Convener:** Michele Colucci (UNIMI)

12:50 – 12:58 PM (8m)

ITM'S INTEGRATED APPROACH TO SECURING AND SCALING MEDICAL RADIOISOTOPES FOR TARGETED THERAPIES

Speaker

Michael Siegl (ITM Pharma Solutions GmbH)

1:20 PM

1:30 PM

Mon, February 16

1:30 - 3:00 PM

3:00 PM

Lunch & Poster Session

Session | **Location:** Grand Hotel Mediterraneo, Lungarno del Tempio, 44 - 50121, Firenze

Poster Session 1**Session** | **Location:** Grand Hotel Mediterraneo, Americas Room

1:30 – 1:32 PM (2m)

ESTABLISHMENT OF ASTATINE-211 PRODUCTION AND PURIFICATION PLATFORM AT KIRAMS**Speaker**

Kyo Chul Lee (Korea Institute of Radiological and Medical Sciences)

1:32 – 1:34 PM (2m)

INNOVATIVE ELECTROCHEMICAL SEPARATION OF Ru-106: ADVANCING PURITY FOR OPHTHALMIC APPLICATIONS**Speaker**

Dr Simindokht Shirvani Arani (Nuclear Science and Technology Research Institute)

1:34 – 1:36 PM (2m)

AN AUTOMATED SEPARATION METHOD FOR ISOLATING ZIRCONIUM-89 FROM NIOBIUM-BACKED YTTRIUM TARGETS**Speaker**

Alisa Paterson (Sylvia Fedoruk Canadian Centre for Nuclear Innovation)

1:36 – 1:38 PM (2m)

DESIGN AND FEASIBILITY STUDY FOR THE LARGE-SCALE PRODUCTION OF Cu-67 USING A HIGH-POWER LINAC ELECTRON BEAM**Speaker**

Martin Kreller (HZDR – Helmholtz-Zentrum Dresden-Rossendorf)

1:38 – 1:40 PM (2m)

FUNDAMENTAL RESEARCH ON THE PRODUCTION OF MEDICAL RADIOISOTOPES (Tb-161, Lu-177) USING JRR-3**Speaker**

Shunsuke Fujino (Japan Atomic Energy Agency)

1:40 – 1:42 PM (2m)

ZnO MICROFLOWERS SYNTHESIS AS A WAY FOR CYCLOTRON TARGET RECYCLING FOR CU RADIONUCLIDES PRODUCTION**Speaker**

Alessandro Nioiretini (University of Ferrara)

1:42 – 1:44 PM (2m)

DEVELOPMENT AND OPTIMIZATION OF AN EXTRACTION CHROMATOGRAPHY PROTOCOL FOR HIGH-PURITY Tb-155 PRODUCTION**Speaker**

Dr Petra Martini (Università di Ferrara)

1:44 – 1:46 PM (2m)

A STUDY ON THE PRODUCTION YIELD EVALUATION OF PM-147 USING MCNP-CINDER COUPLING IN A RESEARCH REACTOR ENVIRONMENT**Speaker**

Kilyoung Ko (Korea Atomic Energy Research Institute)

1:46 – 1:48 PM (2m)

A SIMPLE TOOL FOR PHOTONUCLEAR ACTIVATION CALCULATION**Speaker**

Erik Poenitz (Helmholtz-Zentrum Dresden-Rossendorf)

1:48 – 1:50 PM (2m)

REVIEW OF A HEAT TRANSFER-BASED EVALUATION FRAMEWORK FOR ISOTOPE TARGET INTEGRITY IN A CANDU REACTOR**Speaker**

Taekyu Ham (KHNP CRI)

1:50 – 1:52 PM (2m)

CHROMATOGRAPHIC SEPARATION OF COPPER FROM SIMULATED ZINC AND NICKEL TARGETS**Speaker**

Daniel Mcalister (Eichrom Technologies, LLC)

1:52 – 1:54 PM (2m)

CHROMATOGRAPHIC SEPARATION OF MANGANESE FROM SIMULATED CHROMIUM TARGETS**Speaker**

Madeleine Eddy (Eichrom Technologies, LLC)

1:54 – 1:56 PM (2m)

A DEEP ANALYSIS OF Gd₂O₃ TARGETS FOR Tb-155 PRODUCTION WITH MEDICAL CYCLOTRONS**Speaker**

Alisa Kotliarenko (Istituto Nazionale di Fisica Nucleare)

1:56 – 1:58 PM (2m)

CHARACTERIZATION OF EXTRACTION CHROMATOGRAPHIC RESINS BASED ON MONOAMIDE EXTRACTANTS FOR THE SEPARATION OF TRANSITION AND POST-TRANSITION METAL IONS**Speaker**

Madeleine Eddy (Eichrom Technologies, LLC)

1:58 – 2:00 PM (2m)

MULTI COPPER AND GALLIUM RADIOISOTOPES PRODUCTION BY IRRADIATION OF ZnO TARGET VIA MEDICAL CYCLOTRON**Speaker**

Petra Martini (University of Ferrara, Ferrara, ITALY)

2:00 – 2:02 PM (2m)

DEVELOPMENT OF A SYSTEM FOR MEASURING BETA-RAY EMISSION RATE IN BETAVOLTAIC BATTERIES**Speaker**

Jin Joo Kim (Korea Atomic Energy Research Institute)

2:02 – 2:04 PM (2m)

EXCITATION FUNCTION MEASUREMENTS OF Tb-149 IN THE B-10+Nd-142 SYSTEM**Speaker**

Dr rahbar ali (Department of Physics, G. F. (P. G.) College, Shahjahanpur - 242001, INDIA)

2:04 – 2:06 PM (2m)

A NOVEL APPROACH FOR THE DEVELOPMENT OF TITANIUM CARBIDE TARGET FOR THE SPES ISOL FACILITY**Speaker**

Dr Antonietta Donzella (Istituto Nazionale di Fisica Nucleare)

2:06 – 2:08 PM (2m)

DEVELOPMENT OF AN AUTOMATED ELECTROPLATING SYSTEM FOR SOLID TARGET PREPARATION IN ALPHA EMITTER PRODUCTION**Speaker**

Mario Malinconico (COMECER S.p.A. - R&D Department)

2:08 – 2:10 PM (2m)

RADIOACTIVE ISOTOPE BEAM PRODUCTION WITH K_oBRA AT RAONGEOPOLYMERS**Speaker**

Dong Geon Kim (Institute for Basic Science)

2:10 – 2:12 PM (2m)

PRODUCTION OF INNOVATIVE RADIOISOTOPES FOR PERSONALIZED NUCLEAR MEDICINE IN ITALY**Speaker**

Chiara Favaretto (Istituto Nazionale di Fisica Nucleare)

2:12 – 2:14 PM (2m)

SPS-PRODUCED YTTRIUM TARGET FOR OPTIMIZED Zr-89 PRODUCTION**Speaker**

Chiara Favaretto (IRCCS Sacro Cuore Don Calabria)

2:14 – 2:16 PM (2m)

TOWARDS CHEMICAL ENRICHMENT OF CA-48 VIA ELECTROPHORESIS**Speaker**

Yuki Ishikawa (GSI / Helmholtz Institute Mainz)

2:16 – 2:18 PM (2m)

THERANOSTIC POTENTIAL OF [⁶⁴Cu]CuCl₂ TO OVERCOME CANCER HETEROGENEITY**Speaker**

Petra Martini (Istituto Nazionale di Fisica Nucleare)

2:20 – 2:22 PM (2m)

CHARACTERISTICS OF SECONDARY NEUTRONS IN F-18 PRODUCTION WITH MEDICAL CYCLOTRONS: A MONTE CARLO STUDY**Speaker**

Yeijin Bang (JEONBUK NATIONAL UNIVERSITY)

2:22 – 2:24 PM (2m)

PRODUCTION OF Pb-203 AT GIP ARRONAX**Speaker**

Thomas Sounalet (Subatech)

2:24 – 2:26 PM (2m)

STUDY OF THE REACTION DYNAMICS FOR THE PRODUCTION OF Tm-167**Speaker**

Mr mohd usman (Department of Applied Physics, Z. H. College of Engineering and Technology, Aligarh Muslim University, Aligarh, U.P. , India)

2:26 – 2:28 PM (2m)

RADIOLABELING OF GOLD NANOPARTICLES WITH Sc-44 FOR PET DIAGNOSIS OF CANCER

Speaker

Théo Demartinécourt (GIP ARRONAX)

2:28 – 2:30 PM (2m)

DOSIMETRIC EVALUATION OF ^{32}P RADIONUCLIDE THERAPY USING SILICA MICROPARTICLE CARRIERS

Speaker

Prof. Sung-Joon Ye (Seoul National University)

3:00 PM

3:00 PM

Mon, February 16

3:00 – 4:30 PM

1. Isotopes Production and Devices - Mon_S2_A

Session | **Location:** Grand Hotel Mediterraneo, Plenaria: Africa Room | **Conveners:**
Thierry Stora (CERN-ISOLDE), Gaia Pupillo (Istituto Nazionale di Fisica Nucleare)

3:00 – 3:20 PM (20m)

CROSS SECTION MEASUREMENTS AND PRODUCTION OF Tm-165 VIA THE Ho-165(alpha,4n) REACTION: GENERATOR OF A PURE AUGER ELECTRON EMITTER, Er-165**Speaker**

Etienne NIGRON (GIP ARRONAX)

3:20 – 3:40 PM (20m)

TOWARDS OPTIMIZED La-133 AND La-135 PRODUCTION THROUGH CROSS-SECTION MEASUREMENTS FROM BARIUM TARGETS**Speaker**

Dr Gaia Dellepiane (Tera Care Foundation)

3:40 – 4:00 PM (20m)

PRODUCTION OF TECHNETIUM RADIOISOTOPE BY ALPHA-PARTICLE BEAM IRRADIATION OF 93-NIOBIUM UP TO 50 MEV**Speaker**

He Huang (Hokkaido University, Japan)

4:00 – 4:15 PM (15m)

EXPANDING ACCESS TO THERANOSTIC Sc-47: BILAYER TARGETS OR LOW-ENERGY DEUTERON ROUTES**Speaker**

Francesca Barbaro (Istituto Nazionale di Fisica Nucleare)

4:15 – 4:30 PM (15m)

EXCITATION FUNCTION MEASUREMENTS FOR RADIOISOTOPE PRODUCTION AT RIKEN**Speaker**

Masayuki Aikawa (Hokkaido University)

4:30 PM

3:00 PM

Mon, February 16

3:00 – 4:30 PM

1. Isotopes Production and Devices - Mon_S2_B

Session | **Location:** Grand Hotel Mediterraneo, Plenaria: Asia Room | **Conveners:**
Juan Esposito (Istituto Nazionale di Fisica Nucleare), Ingo Spahn (Forschungszentrum Jülich)

3:00 – 3:20 PM (20m)

RADIOISOTOPE RESEARCH AT THE BIRMINGHAM ACCELERATOR FACILITIES**Speaker**

Carl Wheldon (University of Birmingham)

3:20 – 3:40 PM (20m)

RADIONUCLIDE PRODUCTION AT THE UNIVERSITY OF WISCONSIN - MADISON**Speaker**

Jonathan Engle (University of Wisconsin - Madison)

3:40 – 4:00 PM (20m)

ADVANCES IN RADIOISOTOPE PRODUCTION CAPABILITIES AT OAK RIDGE NATIONAL LABORATORY**Speaker**

Susan Hogle (Oak Ridge National Laboratory)

4:00 – 4:15 PM (15m)

INNOVATIVE GA-68 AND ZR-89 PRODUCTION UTILIZING ALCEO AND SYNTHERA PLATFORMS: A NEW COMMERCIAL SOLUTION FOR RADIOPHARMACEUTICAL PRODUCTION**Speaker**

Mario Malinconico (COMECER S.p.A. - R&D Department)

4:15 – 4:30 PM (15m)

ONLINE MONITORING FOR COLUMN SEPARATION OF Lu-177 FROM ENRICHED Yb-176 IRRADIATED TARGET**Speaker**

Dr Kohshin Washiyama (Advanced Clinical Research Center, Fukushima Medical University)

4:30 PM

3:01 PM

Mon, February 16

3:01 - 4:30 PM

2. Isotope Applications - Mon_S2_C - Young Session

Session | **Location:** Grand Hotel Mediterraneo, Plenaria: Europa Room | **Conveners:** Sonja Schreurs (UHasselt), Caroline Licour (Universidade da Beira Interior, Portugal)

3:01 - 3:16 PM (15m)

MOLECULAR PLATING TECHNIQUE TO PREPARE THIN TARGETS FOR PRODUCTION CROSS SECTION MEASUREMENT OF THE $\text{nat-Gd}(p,x)\text{Tb-155}$ REACTION

Speaker

Vanessa RHODEN

3:16 - 3:31 PM (15m)

MANGANESE-52: FROM CYCLOTRON PRODUCTION TO ELECTROCHEMICAL PURIFICATION AND PET/MR NANOPROBE FORMULATION

Speaker

Ms Sanchita Ghosh (Homi Bhabha National Institute, Anushaktinagar, Mumbai 400094, India. Radiopharmaceuticals Division, Bhabha Atomic Research Centre, Trombay, Mumbai 400085, India)

3:31 - 3:46 PM (15m)

COBALT-60 GAMMA IRRADIATION FOR CULTURAL HERITAGE PRESERVATION: CASE STUDIES ON ARCHIVAL PAPER AND PARCHMENT

Speaker

Beatrice D'Orsi (ENEA Casaccia)

3:46 - 4:01 PM (15m)

MANUFACTURING AND RECYCLING OF ZnO TARGETS FOR Cu-67 PRODUCTION

Speaker

Gaja Piteo (Istituto Nazionale di Fisica Nucleare)

4:01 - 4:16 PM (15m)

PROBING MUON ISOTOPE PRODUCTION AND PAST ASTROPARTICLE FLUXES USING NUCLEAR RECOIL TRACKS IN PALEO-DETECTORS

Speaker

Claudio Galelli (Istituto Nazionale di Fisica Nucleare)

4:30 PM

3:02 PM

Mon, February 16

3:02 – 4:30 PM

5. Energy & Decommissioning - Mon_S2_D

Session | **Location:** Grand Hotel Mediterraneo, Pacifico Room | **Conveners:**
Kirsten Lauritzen, Gianluca Quarta (Istituto Nazionale di Fisica Nucleare)

3:02 – 3:22 PM (20m)

WASTE TO WONDER - CARBON-14 INNOVATION

Speaker

Chris Horne (Ontario Power Generation)

3:22 – 3:42 PM (20m)

INNOVATIVE MATRIX FOR RADIOACTIVE WASTE CONDITIONING; GEOPOLYMERS AND DIATOMACEOUS EARTH

Speaker

Ozgur ILERI (SUBATECH, IMT Atlantique)

3:42 – 4:02 PM (20m)

3D GAMMA-RAY IMAGING IN NDA RADIOLOGICAL CHARACTERIZATION ACTIVITIES FOR DECOMMISSIONING AND WASTE MANAGEMENT

Speaker

Edoardo Gorello (Nucleco Spa)

4:02 – 4:16 PM (14m)

PRELIMINARY RESULTS FROM THE DECOMMISSIONING OF AN ITALIAN COMMERCIAL PWR

Speaker

Giulio Salvadori (Nucleco Spa)

4:16 – 4:30 PM (14m)

STATUS OF THE SIMβ-AD PROJECT: METHODOLOGY TO ESTIMATE ACTIVATION OF RADIOACTIVE WASTE PRODUCED BY CYCLOTRON FACILITIES

Speaker

Jean-Michel Horodyski (CNRS - iRSD)

4:30 PM

4:30 PM

Mon, February 16

4:30 – 4:59 PM

4:59 PM

Coffee break

Session | **Location:** Grand Hotel Mediterraneo, Lungarno del Tempio, 44 - 50121, Firenze

4:59 PM

Mon, February 16

4:59 – 6:30 PM

1. Isotopes Production and Devices - Mon_S3_A

Session | **Location:** Grand Hotel Mediterraneo, Plenaria: Africa Room | **Conveners:**

Sara Cisternino (Istituto Nazionale di Fisica Nucleare), Mario Malinconico (COMECER S.p.A. - R&D Department)

4:59 – 5:19 PM (20m)

EXPERIMENTAL STUDY OF EXCITATION FUNCTIONS FOR PROTON-INDUCED REACTIONS ON Pr-141

Speaker

Arshiya Anees Ahmed (Institute of Nuclear Physics, Polish Academy of Sciences, Krakow Poland)

5:19 – 5:39 PM (20m)

COMPARISON BETWEEN DIFFERENT DIRECT PRODUCTION ROUTES OF THE THERANOSTIC Sc-47

Speaker

Liliana Mou (Istituto Nazionale di Fisica Nucleare)

5:39 – 5:54 PM (15m)

THE COPPER TRILOGY: EXPLORING Cu-61, Cu-64 AND Cu-67 AT THE BERN MEDICAL CYCLOTRON

Speaker

Dr Gaia Dellepiane (Tera Care Foundation)

5:54 – 6:09 PM (15m)

DESIGN AND CONSTRUCTION OF GA-68 GENERATOR WITH MICROBEAD-BASED ABSORBENT

Speaker

Jun Young Lee

6:09 – 6:24 PM (15m)

PREPARATION AND CHARACTERIZATION OF TERBIUM-161 AS A STEP TOWARDS CLINICAL TRANSLATION

Speaker

Izabela Cieszykowska (NCBJ Radioisotope Centre POLATOM)

6:30 PM

5:00 PM

Mon, February 16

5:00 – 6:30 PM

1. Isotopes Production and Devices - Mon_S3_B

Session | **Location:** Grand Hotel Mediterraneo, Plenaria: Asia Room | **Conveners:**

Flavia Maria Groppi (Istituto Nazionale di Fisica Nucleare), Saverio Braccini (Albert Einstein Center for Fundamental Physics (AEC), Laboratory for High Energy Physics (LHEP), University of Bern, Sidlerstrasse 5, 3012 Bern, Switzerland)

5:00 – 5:20 PM (20m)

DEVELOPING PRODUCTION AND RADIOCHEMICAL SEPARATION FOR EMERGING RADIONUCLIDES FOR TARGETED RADIONUCLIDE THERAPY AT TRIUMF

Speaker

Valery Radchenko (TRIUMF)

5:20 – 5:40 PM (20m)

RECENT ADVANCES IN NANTES AROUND THE ARRONAX FACILITY

Speaker

Arnaud GUERTIN (CNRS/IN2P3/SUBATECH)

5:40 – 6:00 PM (20m)

RADIONUCLIDES PRODUCTION FOR BIO-MEDICAL APPLICATIONS AT CERN-MEDICIS AND FOR THE PRISMAP EUROPEAN PROGRAM

Speaker

Edgars MAMIS (CERN)

6:00 – 6:15 PM (15m)

THE SPES_MED ACTIVITIES AT THE LEGNARO NATIONAL LABORATORIES

Speaker

Gaia Pupillo (Istituto Nazionale di Fisica Nucleare)

6:30 PM

5:01 PM

Mon, February 16

5:01 – 6:30 PM

2. Isotope Applications - Mon_S3_C - Young Session

Session | **Location:** Grand Hotel Mediterraneo, Plenaria: Europa Room | **Conveners:** Zeynep Talip (-), Meera Venkatesh

5:01 – 5:16 PM (15m)

TOWARDS SUSTAINABLE NANOCARRIERS FOR METAL-BASED DRUG DELIVERY: RADIOLABELING OF CELLULOSE NANOCRYSTALS WITH COPPER-61

Speaker

Alessia Sambugaro (University of Verona)

5:16 – 5:31 PM (15m)

UNLOCKING THE POTENTIAL OF ASTATINE-211 FOR TARGETED ALPHA THERAPY

Speaker

Dr Anne Royer (Ion Beam Applications)

5:31 – 5:46 PM (15m)

INVESTIGATE QUANTITATIVE BREMSSTRAHLUNG IMAGING BY Ho-166

Speaker

Marco Capogni (ENEA)

5:46 – 6:01 PM (15m)

OPTIMIZING SCANDIUM-44 PRODUCTION AND RADIOLABELING FOR POTENTIAL CLINICAL APPLICATION IN NUCLEAR MEDICINE

Speaker

Marie Théry (PSI Center for Life Sciences, Villigen-PSI, Switzerland)

6:01 – 6:16 PM (15m)

PREDICTING RADIOBIOLOGICAL ENHANCEMENT: MONTE CARLO MODELING OF GOLD NANORODS AND RADIOPHARMACEUTICALS

Speaker

Lucrezia Bianchi (INFN Roma Tre, Roma Tre University)

6:16 – 6:30 PM (14m)

CYCLIC PEPTIDE CHELATORS FOR ENHANCED RADIUM SEPARATION AND RADIOPHARMACEUTICAL APPLICATIONS

Speaker

Xiao Hong (Beijing Changping Laboratory)

6:30 PM

5:02 PM

Mon, February 16

5:02 – 6:32 PM

5. Energy & Decommissioning - Mon_S3_D

Session | **Location:** Grand Hotel Mediterraneo, Pacifico Room | **Conveners:**
Jean-Michel Horodyski (CNRS - iRSD), Giulio Salvadori (Nucleco Spa)

5:02 – 5:22 PM (20m)

IMMOBILISATION OF CATIONIC AND ANIONIC RADIONUCLIDE SPECIES IN ZEOLITITE-BASED ACID GEOPOLYMERS

Speaker

Fabio Fattori (Politecnico di Milano)

5:22 – 5:42 PM (20m)

STRUCTURAL INSIGHTS INTO NOVEL CHELATORS FOR ACTINIDE AND LANTHANIDE SEPARATIONS

Speaker

Prof. Ilja Popovs (University of Tennessee)

5:42 – 6:02 PM (20m)

SPECIATION AND VOLATILITY OF TELLURIUM EVAPORATED FROM LEAD-BISMUTH EUTECTIC

Speaker

Vladislav Zobnin (Paul Scherrer Institut)

6:02 – 6:22 PM (20m)

ENABLING FUSION ENERGY - OPG'S TRITIUM LEGACY AND FUTURE

Speaker

Kirsten Lauritzen

6:32 PM

Tue, February 17

9:00 AM

Tue, February 17

9:00 – 10:30 AM

Plenary Session "Advances in Isotope Production and Applications" - Tuesday

Session | **Location:** Grand Hotel Mediterraneo, Plenaria: Europa-Asia-Africa Room | **Conveners:** Mariagabriella Pugliese (Istituto Nazionale di Fisica Nucleare), Syed Qaim (Forschungszentrum Jülich)

Description

"Advances in Isotope Production and Applications"

9:00 – 9:30 AM (30m)

THERANOSTICS: RECENT ADVANCES IN THE DEVELOPMENT OF RADIOPHARMACEUTICALS FOR BRIDGING DIAGNOSIS AND THERAPY

Speaker

Bernd Neumaier

9:30 – 10:00 AM (30m)

APPLICATION OF ACCELERATOR-BASED RADIOCARBON DATING TO FORENSICS

Speaker

Gianluca Quarta (Istituto Nazionale di Fisica Nucleare)

10:00 – 10:30 AM (30m)

ULTRA-LOW BACKGROUND GAMMA-RAY SPECTROMETRY LABORATORY FOR NUCLEAR SECURITY

Speaker

Stephen LaMont (Los Alamos National Laboratory)

10:30 AM

10:30 AM

Tue, February 17

10:30 - 11:00 AM

11:00 AM

Coffee break

Session | **Location:** Grand Hotel Mediterraneo, Lungarno del Tempio, 44 - 50121, Firenze

11:00 AM Tue, February 17

11:00 AM - 1:00 PM

1. Isotopes Production and Devices - Tue_S1_A

Session | **Location:** Grand Hotel Mediterraneo, Plenaria: Africa Room | **Conveners:**

Gaia Dellepiane (Albert Einstein Center for Fundamental Physics, Laboratory of High Energy Physics, University of Bern, Switzerland), Liliana Mou (Istituto Nazionale di Fisica Nucleare)

11:00 - 11:20 AM (20m)

RADIOMETALS PRODUCTION FROM LIQUID TARGETS: ICNAS EXPERIENCE

Speaker

Francisco Alves (ICNAS - University of Coimbra - Portugal)

11:20 - 11:40 AM (20m)

TARGET DEVELOPMENTS FOR RESEARCH AND PRODUCTION OF RADIONUCLIDES AT GIP ARRONAX

Speaker

Thomas Sounalet (Subatech)

11:40 AM - 12:00 PM (20m)

OPTIMIZING SOLID-TARGET PRODUCTION OF NON-CONVENTIONAL THERANOSTIC RADIONUCLIDES AT THE BERN MEDICAL CYCLOTRON

Speaker

Saverio Braccini (University of Bern)

12:00 - 12:15 PM (15m)

MULTI-PHYSICS DESIGN AND OPTIMIZATION OF Zr-89 PRODUCTION TARGET

Speaker

Dr Ziming Li (Harbin Engineering University)

12:15 - 12:30 PM (15m)

DEVELOPMENT OF NI ELECTROPLATING FOR ^{61}Cu AND ^{64}Cu PRODUCTION IN CLINICAL CYCLOTRONS: COSTA RICA CASE STUDY

Speaker

Jose Daniel Campos Mendez (Universidad de Costa Rica/ Universite de Nantes)

12:30 - 12:45 PM (15m)

R&D ON MEDICAL RADIONUCLIDE PRODUCTION AT INFN-LNL: FOCUS ON SOLID TARGET MANUFACTURING TECHNIQUES

Speaker

Sara Cisternino (Istituto Nazionale di Fisica Nucleare)

12:45 - 1:00 PM (15m)

ADDITIVE MANUFACTURING OF URANIUM CARBIDE TARGETS FOR THE PRODUCTION OF RADIOISOTOPES FOR NUCLEAR PHYSICS AND MEDICINE

Speaker

Rachel Eloirdi

1:00 PM

11:00 AM **Tue, February 17**

11:00 AM - 1:00 PM

1. Isotopes Production and Devices - Tue_S1_B**Session** | **Location:** Grand Hotel Mediterraneo, Plenaria: Asia Room | **Conveners:**

Juan Esposito (Istituto Nazionale di Fisica Nucleare), Bernard Ponsard (Belgian Nuclear Research Centre)

11:00 - 11:20 AM (20m)

NOVEL RADIOISOTOPE PRODUCTION IN RESEARCH REACTORS IN POLAND AND EASTERN EUROPE**Speaker**

Renata Mikolajczak (Polatom NCBJ)

11:20 - 11:40 AM (20m)

DEVELOPING A REACTOR-BASED ISOTOPE PRODUCTION ROADMAP IN KOREA WITH THE NEW RESEARCH REACTOR**Speaker**

Dr Seung-Kon Lee (Korea Atomic Energy Research Institute)

11:40 AM - 12:00 PM (20m)

THE USE OF LOW POWER RESEARCH REACTORS TO DEVELOP NEW PROTOCOLS IN THE PURSUIT OF EXOTIC RADIONUCLIDE PRODUCTION**Speaker**

Dr Andrea Gandini (Università degli studi di Pavia -L.E.N.A)

12:00 - 12:15 PM (15m)

THE FAILURE OF Pm-147 SORCES: DAMAGING THE IMAGE OF THE ISOTOPE INDUSTRY**Speaker**

Ivan Burianenko (Mr)

12:15 - 12:30 PM (15m)

PRODUCTION OF IRIDIUM-192 AT THE HIGH FLUX ISOTOPE REACTOR**Speaker**

Mikayla Duggan (Oak Ridge National Laboratory)

12:30 - 12:45 PM (15m)

KIJANG RESEARCH REACTOR LICENSING AND CONSTRUCTION STATUS**Speaker**

Kye Hong Lee

12:45 - 1:00 PM (15m)

USE OF 3D PRINTING AS A TOOL FOR OPTIMIZING THE SYNTHESIS PROCESS OF 18F-FDG**Speaker**

Mr Ernesto Corrales Corrales (Universidad de Costa Rica)

1:00 PM

11:01 AM Tue, February 17

11:01 AM - 1:00 PM

2. Isotope Applications - Tue_S1_C

Session | **Location:** Grand Hotel Mediterraneo, Plenaria: Europa Room | **Conveners:**
Petra Martini (Istituto Nazionale di Fisica Nucleare), Ferenc Ditrói (HUN-REN Institute for Nuclear Research (ATOMKI))

11:01 - 11:21 AM (20m)

Cu-64 ENABLES NANOBODY-BASED MYELOID CELL PET IMAGING IN MULTI-CENTER TRANSLATIONAL WORKFLOWS

Speaker

Prof. Andreas Maurer (Helmholtz-Zentrum Dresden-Rossendorf, Institute of Radiopharmaceutical Cancer Research)

11:21 - 11:41 AM (20m)

RADIOACTIVE ¹¹C-ION BEAMS FOR SIMULTANEOUS TREATMENT AND IN-BEAM PET IMAGING OF MOUSE OSTEOSARCOMA MODEL

Speaker

Martina Moglioni (GSI Helmholtzzentrum für Schwerionenforschung GmbH)

11:41 AM - 12:01 PM (20m)

KFSH&RC'S 45-YEAR RADIOPHARMACEUTICAL JOURNEY: A LEGACY OF INNOVATION, AUTOMATION, AND CLINICAL IMPACT

Speaker

Prof. Mohammed Al-Qahtani (Cyclotron and Radiopharmaceuticals Department, King Faisal Specialist Hospital and Research Center)

12:01 - 12:16 PM (15m)

IMAGING PERFORMANCE OF A PLANAR SEGMENTED HPGe DETECTOR FOR γ -RAY DETECTION AND QUANTIFICATION

Speaker

Ahmed Alharbi (Department of Physics, College of Science, Qassim University, Saudi Arabia)

12:16 - 12:31 PM (15m)

PRODUCTION OF RADIOACTIVE NANOPARTICLES OF Sc-44 AND Sc-43: PIONEERING THE FUTURE OF MEDICINE

Speaker

Dipak Babar (The University of Manchester)

12:31 - 12:45 PM (14m)

DELAYED PET IMAGING OF PROSTATE CANCER USING LONG-LIVED RADIONUCLIDES

Speaker

Mark Bartholomä

12:45 - 12:59 PM (14m)

TC-99m LABELED COVALENT TARGETED FAPI FOR SPECT IMAGING

Speaker

Prof. Zhibo Liu (Peking University)

1:00 PM

11:02 AM Tue, February 17

11:02 AM - 1:02 PM

6. Security, Safety and Quality Assurance - Tue_S1_D

Session | **Location:** Grand Hotel Mediterraneo, Pacifico Room | **Conveners:**
Mariagabriella Pugliese (Istituto Nazionale di Fisica Nucleare), Clemens Walther

11:02 - 11:22 AM (20m)

NOVEL MICROWAVE DISSOLUTION METHODS FOR NUCLEAR FORENSICS APPLICATIONS**Speaker**

Jack Burgoyne (AWE Nuclear Security Technologies)

11:22 - 11:42 AM (20m)

PARTICLE SIZE CHARACTERIZATION OF $^{238}\text{PuO}_2$ PARTICLES VIA AUTORADIOGRAPHY AND SCANNING ELECTRON MICROSCOPY AUTOMATED PARTICLE ANALYSIS FOR INCIDENT RESPONSE**Speaker**

Kimberly Wurth (Los Alamos National Laboratory)

11:44 AM - 12:04 PM (20m)

ANALYSIS OF SMALL SAMPLES OF SPENT NUCLEAR MATERIALS FOR INTERPRETING REACTOR OPERATING HISTORY**Speaker**

Brett Isselhardt (Lawrence Livermore National Laboratory)

12:04 - 12:19 PM (15m)

VALIDATION OF A FAST METHOD FOR DETERMINATION OF AM-241 IN NASAL MUCUS SAMPLES USING HIGH RESOLUTION GAMMA SPECTROMETRY**Speaker**

Michele Galletta (European Commission - DG HR -)

12:19 - 12:34 PM (15m)

RAPID COLUMN-BASED SEPARATION OF KEY ACTINIDE AND FISSION PRODUCTS OF URANIUM FOR NUCLEAR FORENSIC ANALYSIS**Speaker**

Emily Paige Abel

12:34 - 12:48 PM (14m)

SHORT-LIVED RADIONUCLIDES FOR INCORPORATION INTO RADIOLOGICAL RESPONSE AND NUCLEAR FORENSIC TRAINING MATERIALS**Speaker**

JUSTIN COOPER (Idaho National Laboratory)

12:48 - 1:02 PM (14m)

UTEVA/DGA RESIN STACK FOR THE SEPARATION OF BOTH SHORT- AND LONG-LIVED ACTINIDES**Speaker**

Staci Herman (Pacific Northwest National Laboratory)

1:02 PM

1:02 PM

Tue, February 17

1:02 - 2:29 PM

2:29 PM

Lunch & Poster Session

Session | **Location:** Grand Hotel Mediterraneo, Lungarno del Tempio, 44 - 50121, Firenze

Poster Session 2**Session** | **Location:** Grand Hotel Mediterraneo , Americas Room

1:02 – 1:04 PM (2m)

A METHOD FOR HIGH-PURITY SEPARATION OF PROMETHIUM-147 BASED ON NEODYMIUM**Speaker**

Gujin Kang (Korea Atomic Energy Research Institute)

1:04 – 1:06 PM (2m)

SCALABLE β -RADIATION EXFOLIATION OF ZN-AL LDH: MECHANISTIC INSIGHTS INTO HIGH-FLUX NANOCOMPOSITE MEMBRANES**Speaker**

Muhammad Adli Bin Nor Azman (Advanced Membrane Technology Research Centre (AMTEC), Faculty of Chemical and Energy Engineering, University Technology Malaysia, 81310 Skudai, Johor, Malaysia)

1:06 – 1:08 PM (2m)

SUBSTANTIAL AMYLOID CLEARANCE IN PET IMAGING BUT MINIMAL COGNITIVE CHANGE AFTER SIX MONTHS OF LECANEMAB**Speaker**

JEE HYANG JEONG (Ewha Womans University Seoul Hospital)

1:08 – 1:10 PM (2m)

DEVELOPMENT OF A GREEN COFFEE BEAN REFERENCE MATERIAL FOR MULTI-ELEMENTAL ANALYSIS**Speaker**

Claudio Gonzaga (CENA/USP)

1:10 – 1:12 PM (2m)

OPTIMIZATION OF BEEF DIGESTION PROCEDURES FOR MULTIELEMENTAL DETERMINATION**Speaker**

Letícia de Lima (Nuclear Energy Center for Agriculture, University of São Paulo)

1:12 – 1:14 PM (2m)

MONITORING OF GREENHOUSE GASES AND ISOTOPIC SIGNATURES IN URBAN CARBON CYCLES- A CASE STUDY IN GLIWICE, POLAND**Speaker**

Barbara Sensuła (Silesian University of Technology, Ins. Physics)

1:14 – 1:16 PM (2m)

BIOGEOCHEMICAL INVESTIGATION OF MANGROVE ECOSYSTEM TO GAUGE COASTAL ANOXIA AND ECOSYSTEM PROCESSES OF THE LAST 7800 CAL YEAR BP**Speaker**

Anand Rajoriya (Radiocarbon dating and Isotopic characterization laboratory, BIRBAL SAHNI INSTITUTE OF PALAEOSCIENCES)

1:16 – 1:18 PM (2m)

RADHAWK: UAV FOR FAST-RESPONSE RADIOLOGICAL MAPPING**Speaker**

Nedime Irem Elek

1:18 – 1:20 PM (2m)

INTEGRATION METHOD FOR DETERMINING THE POTENTIAL ALPHA ENERGY CONCENTRATION OF RADON AND THORON DECAY PRODUCTS IN AIR**Speaker**

Ms Agata Grygier

1:20 – 1:22 PM (2m)

SYNTHETIC ZEOLITES (3A, 4A, 5A, 13X, NaP1) AND THEIR APPLICATION IN REMOVING RADIUM AND BARIUM FROM WATER**Speaker**

Krzysztof Samolej (Central Mining Institute - National Research Institute)

1:22 – 1:24 PM (2m)

INTEGRATED ENVIRONMENTAL RADIOACTIVITY MONITORING BY THE HEALTH PHYSICS GROUP AT LASA: THE EYE RAD NETWORK AND ^{137}Cs TRANSFER IN DAIRY SYSTEMS**Speaker**

Flavia Maria Groppi (Istituto Nazionale di Fisica Nucleare)

1:24 – 1:26 PM (2m)

MEASURING TROPHIC TRANSFER OF CU INTO N. TRIANGULIFER FROM STORMWATER AND EFFLUENT SOURCES USING STABLE ISOTOPES**Speaker**

Timothy Vadas (University of Connecticut)

1:26 – 1:28 PM (2m)

RADON EXHALATION CAMPAIGN TO ESTIMATE GREENHOUSE GAS EMISSIONS USING THE 'RADON TRACER METHOD'**Speaker**

Serena Mancini (ONET TECHNOLOGIES ND)

1:28 – 1:31 PM (3m)

DERIVATION OF CROP TRANSFER FACTOR IN KOREA**Speaker**

Prof. Kwang Pyo Kim (Department of Nuclear Engineering, KyungHee University)

1:31 – 1:33 PM (2m)

NEUTRONIC FEASIBILITY STUDY OF DUAL-COOLED ANNULAR DUPLEX $\text{PuO}_2\text{-ThO}_2$ FUEL FOR NEXT-GENERATION PW-SMRS: ASSEMBLY LEVEL ANALYSIS**Speaker**

Prof. Ouadie kabach (Laboratory of Materials and Subatomic Physics, Faculty of Sciences, Ibn Tofail University, Kenitra, Morocco.)

1:33 – 1:35 PM (2m)

TOWARDS MORE SUSTAINABLE ADVANCED RECYCLING OF SPENT NUCLEAR FUEL**Speaker**

Massimiliano Federico Silvio Tentorio (Politecnico di Milano)

1:37 – 1:39 PM (2m)

EVALUATION AND MITIGATION OF PERSONNEL RADIATION EXPOSURE DURING RADIOISOTOPE PRODUCTION AT RESEARCH REACTORS**Speaker**

Tracy Tipping (The University of Texas at Austin-NETL)

1:39 – 1:41 PM (2m)

OUTPUTS FROM EURAMET PROJECT 21GRD09 - MetroPOEM

Speaker

Mr Simon Jerome (Norges miljø- og biovitenskapelige universitet)

1:41 – 1:43 PM (2m)

DEVELOPMENT OF A COMPACT SPHERICAL RADIATION DETECTOR WITH ISOTROPIC SENSITIVITY FOR ENVIRONMENTAL MONITORING APPLICATIONS**Speaker**

Mr Jeonghoon Lee (Yonsei univ.)

1:43 – 1:45 PM (2m)

RECONSIDERING THE LINEAR NO-THRESHOLD MODEL: EVIDENCE OF ADAPTIVE RESPONSES FOLLOWING LOW-DOSE IONIZING RADIATION EXPOSURE**Speaker**

Nada Alsufyani

1:45 – 1:47 PM (2m)

RAPID ANALYSES OF URANIUM AND THORIUM MOLTEN CHLORIDE SALTS FOR REACTOR SAFEGUARDS**Speaker**

Dr Paige Abel

1:47 – 1:49 PM (2m)

LISE MEITNER AND THE DISCOVERY OF NUCLEAR FISSION: A CASE OF MEMORY IN SCIENCE**Speaker**

Luisa Loviseti (Università degli Studi di Milano)

1:49 – 1:51 PM (2m)

CASE STUDIES ON APPLICATION OF RADIATION DOSE ASSESSMENT PROGRAM**Speaker**

Prof. Kwang Pyo Kim (Department of Nuclear Engineering, KyungHee University)

1:51 – 1:53 PM (2m)

ROCKYRAD: AN EDUCATIONAL TOOL FOR THE MEASUREMENT OF ROCK RADIOACTIVITY**Speaker**

Ghulam Hasnain (Istituto Nazionale di Fisica Nucleare)

1:53 – 1:55 PM (2m)

DESIGN OF A NaI(TI)-BASED RAPID SEAFOOD RADIOACTIVITY INSPECTION SYSTEM**Speaker**

Ms Sunlee Shin (Jeonbuk National University)

1:55 – 1:57 PM (2m)

DOSE ASSESSMENT OF IONIZING RADIATION THROUGH RADIOSENSITIVE PROTEIN IGFPB3 IN MICE**Speaker**

Jufang Wang

1:57 – 1:59 PM (2m)

SCAR TECHNOLOGY APPLICATION FOR RADIOCARBON MEASUREMENTS IN PHARMACEUTICAL RESEARCH

Speaker

Luca Varricchio (CNR-INO, Via Carrara 1, Sesto Fiorentino, 50019, Italy)

1:59 – 2:01 PM (2m)

MOCK YTTRIUM-90 GLASS SPHERE STANDARDIZATION FOR NUCLEAR MEDICINE APPLICATIONS

Speaker

Raphael Galea (National Research Council of Canada)

2:29 PM

2:29 PM

Tue, February 17

2:29 – 4:30 PM

1. Isotopes Production and Devices - Tue_S2_A

Session | **Location:** Grand Hotel Mediterraneo, Plenaria: Africa Room | **Conveners:**
Jonathan Engle (University of Wisconsin - Madison), Gaia Pupillo (Istituto Nazionale di Fisica Nucleare)

2:29 – 2:44 PM (15m)

PRODUCTION OF Pb-203 FOR IMAGING AT THE IBA CYCLONE 30XP IN JÜLICH

Speaker

Alexander Haseloer (Forschungszentrum Jülich, Institute for Neurosciences and Medicine, Nuclear Chemistry (INM-5))

2:44 – 2:59 PM (15m)

TECHNETIUM-94m PRODUCTION BY CYCLOTRON IRRADIATION OF PHOSPHOMOLYBDIC ACID USING AN AUTOMATED LIQUID TARGET SYSTEM

Speaker

Chloe Green (McMaster University)

2:59 – 3:14 PM (15m)

A NOVEL ACCELERATOR-BASED SETUP FOR NATIONAL SCALE Mo-99 PRODUCTION: RADIATION PROTECTION ASPECTS

Speaker

David Ohm (Leibniz University Hanover - Institute for Radioecology and Radiation Protection)

3:14 – 3:29 PM (15m)

TOWARDS RADIONUCLIDICALLY PURE N.C.A. Ho-166 VIA AN INDIRECT REACTOR PRODUCTION ROUTE FOR THERAPEUTIC APPLICATIONS

Speaker

Edoardo Renaldin (Paul Scherrer Institute)

3:29 – 3:44 PM (15m)

TOWARDS SUSTAINABLE PRODUCTION OF Ac-225 FROM Ra-226 FOR TARGETED ALPHA THERAPY

Speaker

Erika Jajčičinová (KU Leuven, JRC Karlsruhe)

3:44 – 3:59 PM (15m)

DEUTERON-INDUCED REACTIONS ON NATURAL ZIRCONIUM FROM THRESHOLD TO 50 MeV: PRODUCTION OF Y-86g

Speaker

Elise Malmer Martinsen (University of Oslo)

4:00 – 4:15 PM (15m)

CROSS SECTION RESULTS ABOUT THE TI-49(d,x) REACTION FOR THE PRODUCTION OF Sc-47 AND ITS CONTAMINANTS

Speaker

Lucia De Dominicis (Istituto Nazionale di Fisica Nucleare - Laboratori Nazionali di Legnaro)

4:15 – 4:30 PM (15m)

PRODUCTION CROSS SECTION MEASUREMENTS OF Ag-111 WITH THE REACTION nat-Pd(alpha,X)

Speaker

Ms Laurine Puren (Laboratoire Subatech, UMR 6457, IMT Atlantique, CNRS/IN2P3, Nantes Université)

4:30 PM

2:30 PM

Tue, February 17

2:30 – 4:30 PM

1. Isotopes Production and Devices - Tue_S2_B

Session | **Location:** Grand Hotel Mediterraneo, Plenaria: Asia Room | **Conveners:**
Alberto Arzenton (Istituto Nazionale di Fisica Nucleare), Susan Hogle (Oak Ridge National Laboratory)

2:30 – 2:50 PM (20m)

RADIOISOTOPES PRODUCTION WITH RFT-30 CYCLOTRON

Speaker

Jeong Hoon Park (Korea Atomic Energy Research Institute)

2:50 – 3:10 PM (20m)

THE SPES FACILITY AT LNL: STATUS AND PERSPECTIVES

Speaker

Tommaso Marchi (INFN - LNL)

3:10 – 3:30 PM (20m)

ACCELERATOR-BASED MEDICAL ISOTOPE PRODUCTION AT INSTITUTE OF MODERN PHYSICS (IMP)

Speaker

Zhi Qin (Institute of Modern Physics)

3:30 – 3:45 PM (15m)

OPTIMIZATION AND VALIDATION OF THE INDIRECT Tb-155 PRODUCTION ROUTE IN THE APHRODITE-155 PROJECT

Speaker

Michele Colucci (Istituto Nazionale di Fisica Nucleare)

3:45 – 4:00 PM (15m)

THEORETICAL PERSPECTIVE ON THE PRODUCTION OF MEDICALLY PROMISING 110min AND Pt-193m BY CHARGED PARTICLE INDUCED REACTIONS

Speaker

Dr Muhammad Naveed Aslam (Department of Physics, COMSATS University Islamabad, Lahore Campus, Lahore, Pakistan)

4:00 – 4:15 PM (15m)

LONG-LIVED CONTAMINANTS IN Cu-61 LABELED BIOMOLECULES PRODUCED BY PROTON BOMBARDMENT OF Ni-61 ENRICHED TARGETS

Speaker

Robert Metzger (Arizona State University)

4:15 – 4:30 PM (15m)

PRODUCTION OF HIGH RADIOISOTOPIC PURITY Se-73 FOR IN VIVO APPLICATION AT A 30 MeV CYCLOTRON

Speaker

Bernd Neumaier

4:30 PM

2:31 PM

Tue, February 17

2:31 – 4:30 PM

2. Isotope Applications - Tue_S2_C

Session | **Location:** Grand Hotel Mediterraneo, Plenaria: Europa Room | **Conveners:**
Dag Eriksen (Department of Chemistry, University of Oslo), Claudio Galelli (Istituto Nazionale di Fisica Nucleare)

2:31 – 2:51 PM (20m)

A COMPARISON OF COMPTON SUPPRESSION AND GAMMA-GAMMA COINCIDENCE IN NEUTRON ACTIVATION ANALYSIS: A REVIEW

Speaker

Sheldon Landsberger (University of Texas)

2:51 – 3:11 PM (20m)

MACHINA, THE MOVABLE ACCELERATOR FOR CULTURAL HERITAGE IN-SITU NON-DESTRUCTIVE ANALYSIS: FIRST RESULTS AND CASE STUDIES

Speaker

Dr Caroline Czelusniak (INFN)

3:11 – 3:31 PM (20m)

CHNET_MAXI: OPTIMIZING MUONIC ATOM X-RAY AND PROMPT GAMMA SPECTROSCOPY FOR NON-DESTRUCTIVE LEAD ISOTOPIC RATIO ANALYSIS IN CULTURAL HERITAGE

Speaker

Massimiliano Clemenza (Istituto Nazionale di Fisica Nucleare)

3:31 – 3:46 PM (15m)

PRODUCTION OF Al-26 AND Be-10 VIA NEUTRON REACTIONS IN SiO₂-ROCKS: IMPLICATIONS FOR BURIAL DATING RELATED TO THE CRADLE OF HUMANKIND--UNESCO WORLD HERITAGE SITE

Speaker

Sara Rabaglia (Istituto Nazionale di Fisica Nucleare)

3:46 – 4:01 PM (15m)

BUILDING A RELIABLE SUPPLY CHAIN FOR YB-176

Speaker

Sandra Barithel

4:01 – 4:16 PM (15m)

ULTRACENTRIFUGATION TO BUILD A RELIABLE SUPPLY CHAIN FOR QUANTUM AND HEALTHCARE

Speaker

Sandra Barithel

4:16 – 4:30 PM (14m)

A LOOK AT THE PROBLEMS OF RADIONUCLIDE RAW MATERIAL SUPPLY FOR ISOTOPE PRODUCTION FROM THE PERSPECTIVE OF A SEALED SOURCE MANUFACTURER

Speaker

Aleksandr Bespokoiev (Mr)

4:30 PM

2:31 PM

Tue, February 17

2:31 – 4:30 PM

6. Security, Safety and Quality Assurance - Tue_S2_D

Session | **Location:** Grand Hotel Mediterraneo, Pacifico Room | **Conveners:**
Kimberly Wurth (Los Alamos National Laboratory), Raphael Galea (National Research Council of Canada)

2:31 – 2:51 PM (20m)

RADIOANALYTICAL DETERMINATIONS AND RADIOACTIVITY MEASUREMENTS IN THE FIELD OF RADIATION PROTECTION: THE EXPERIENCE OF THE INTEGRATED LABORATORY OF RADIOACTIVITY MEASUREMENT AND MONITORING OF THE ENEA RADIATION PROTECTION INSTITUTE

Speaker

Daniela Gorietti (ENEA)

2:51 – 3:11 PM (20m)

CAPACITY BUILDING FOR ISIN NUCLEAR EMERGENCY CENTRE: CONVEX-3 2025 EXERCISE EXPERIENCE

Speakers

Luca Saverio Angelo Codispoti (ISIN - National Inspectorate for Nuclear Safety and Radiation Protection), Marta Tempra (ISIN, National inspectorate for nuclear safety and radiation protection)

3:11 – 3:31 PM (20m)

ACTIVITY STANDARDIZATION OF Yb-175 TO STUDY ITS DECAY PROPERTIES

Speaker

Dr Marcell Péter Takács (Physikalisch-Technische Bundesanstalt)

3:31 – 3:45 PM (14m)

METHOD OPTIMIZATION APPROACH APPLIED TO THE DETERMINATION OF Am-241 IN URINE IN EMERGENCY SITUATIONS

Speaker

Daniela Gorietti (ENEA)

3:45 – 4:00 PM (15m)

VALIDATION OF A QUALITATIVE METHOD FOR TOTAL BETA EMITTERS DETERMINATION IN URINE SAMPLES USING LIQUID SCINTILLATION COUNTING AND GAMMA SPECTROMETRY

Speaker

Michele Galletta (European Commission – DG HR – Via E. Fermi 2749, Ispra, I-21027, Italy)

4:00 – 4:15 PM (15m)

THE TRANSPORT OF RADIOISOTOPES FOR MEDICAL USE: CRITICAL ISSUES AND INITIATIVES

Speaker

Barbara Giannone (National Inspectorate for nuclear safety and radiation protection - ISIN)

4:15 – 4:30 PM (15m)

CHARACTERISATION OF ENVIRONMENTAL REFERENCE MATERIALS SPIKED WITH RADIONUCLIDES BY MASS SPECTROMETRY

Speaker

Hélène ISNARD (CEA SACLAY)

4:30 PM

4:30 PM

Tue, February 17

4:30 - 4:59 PM



4:59 PM

Coffee break
Session | **Location:** Grand Hotel Mediterraneo, Lungarno del Tempio, 44 - 50121, Firenze

4:59 PM

Tue, February 17

4:59 – 6:30 PM

1. Isotopes Production and Devices - Tue_S3_A

Session | **Location:** Grand Hotel Mediterraneo, Plenaria: Africa Room | **Conveners:** Valery Radchenko (TRIUMF), Meera Venkatesh

4:59 – 5:14 PM (15m)

OPERATIONALIZING A NUCLEAR DIGITAL TWIN FOR MEDICAL ISOTOPE IRRADIATION PLANNING TO MEET CLINICAL DEMAND

Speaker

Soha Aslam

5:14 – 5:29 PM (15m)

THE ISOLPHARM RADIONUCLIDE IMPLANTATION STATION FOR MEDICAL APPLICATIONS AT SPES

Speaker

Davide Serafini (University of Siena & INFN-LNL)

5:29 – 5:44 PM (15m)

DATA-DRIVEN OPTIMIZATION OF TERBIUM PRODUCTION VIA $\text{nat-Eu}(\alpha, x)$ REACTIONS: FROM EXPERIMENTS TO NSGA-II MODELLING

Speaker

Michele Colucci (Istituto Nazionale di Fisica Nucleare)

5:44 – 5:59 PM (15m)

RADIOLANTHANIDE PRODUCTION IN CORE (RAPIC): USING COMMERCIAL NUCLEAR REACTORS FOR RADIONUCLIDE PRODUCTION

Speaker

Sofia Pasolini (PSI, Center for Nuclear Engineering and Sciences)

5:59 – 6:14 PM (15m)

FEASIBILITY STUDY ON Ac-225 PRODUCTION USING BWR

Speaker

Anzu Watanabe (Tokyo City University)

6:14 – 6:29 PM (15m)

PRELIMINARY EVALUATION OF Ac-225 PRODUCTION IN THE RSG-GAS REACTOR USING LEU ELECTROPLATING CAPSULE

Speaker

Ms Amila Amatullah (Cooperative Major in Nuclear Energy, Integrative Science and Engineering, Tokyo City University)

6:30 PM

5:00 PM

Tue, February 17

5:00 – 6:30 PM

1. Isotopes Production and Devices - Tue_S3_B

Session | **Location:** Grand Hotel Mediterraneo, Plenaria: Asia Room | **Conveners:**
Alberto Quaranta (TIFPA - University of Trento), Syed Qaim (Forschungszentrum Jülich)

5:00 – 5:20 PM (20m)

CYCLOTRON PRODUCTION OF MEDICAL RADIONUCLIDES WHICH DRIVE TODAY'S RESEARCH AT FORSCHUNGSZENTRUM JÜLICH**Speaker**

Ingo Spahn (Forschungszentrum Jülich)

5:20 – 5:40 PM (20m)

PRODUCTION OF RADIOISOTOPES FOR APPLICATION STUDIES AT RIKEN RI BEAM FACTORY: EXPLORING NEW ELEMENTS THROUGH CANCER THERAPY**Speaker**

Hiromitsu Haba (RIKEN)

5:40 – 6:00 PM (20m)

PRODUCTION OF NOVEL AUGER ELECTRON EMITTING RADIONUCLIDES AT THE HEVESY LABORATORY**Speaker**

Claire Deville (Technical University of Denmark (DTU))

6:00 – 6:15 PM (15m)

ACCELERATOR PRODUCTION OF THULIUM-166 AND THULIUM-167 RADIOISOTOPES FROM ALPHA-PARTICLES INDUCED REACTIONS ON HOLMIUM**Speaker**

Ahmed Usman (Department of Physics, Umaru Musa Yar'adua University, Katsina, Nigeria.)

6:15 – 6:30 PM (15m)

THE TARGET-ION SOURCE UNIT FOR THE COMMISSIONING OF THE SPES FACILITY**Speaker**

Dr Michele Ballan (Istituto Nazionale di Fisica Nucleare)

6:30 PM

5:01 PM

Tue, February 17

5:01 – 6:30 PM

2. Isotope Applications - Tue_S3_C

Session | **Location:** Grand Hotel Mediterraneo, Plenaria: Europa Room | **Conveners:**

Michele Galletta (European Commission - DG HR - Unit D.5 Ispra Medical Service - Radiotoxicology Laboratories),
Hélène ISNARD (CEA SACLAY)

5:01 – 5:21 PM (20m)

THIN LAYER ACTIVATION OF NON-METALLIC MATERIAL BY USING THE $\text{nat-C}(3\text{He},x)\text{Be-7}$ NUCLEAR REACTION BASED ON THE CARBON CONTENT

Speaker

Dr Ferenc Ditroi (HUN-REN Institute for Nuclear Research)

5:21 – 5:41 PM (20m)

CHALLENGES IN MEASUREMENTS OF ENRICHMENT OF Si-28 AS SILANE BY USING TOF-MS

Speaker

Dag Eriksen (Department of Chemistry, University of Oslo)

5:41 – 5:56 PM (15m)

RECENT DEVELOPMENTS IN NEUTRON BEAM CHARACTERIZATION AT THE RAON NDPS

Speaker

Geonhee Oh (Institute for Basic Science)

5:56 – 6:11 PM (15m)

DIGITAL $4\pi\beta(\text{TDCR})\text{-}\gamma$ COINCIDENCE COUNTING AT THE BIPM USING A MODIFIED TDCR SYSTEM

Speaker

Dr Romain Coulon (BIPM)

6:30 PM

5:01 PM

Tue, February 17

5:01 – 6:30 PM

6. Security, Safety and Quality Assurance - Tue_S3_D**Session** | **Location:** Grand Hotel Mediterraneo, Pacifico Room | **Conveners:**

Marta Tempa (ISIN, National inspectorate for nuclear safety and radiation protection), Stephen LaMont (Los Alamos National Laboratory)

5:01 – 5:21 PM (20m)

DYE BASED RADIO-CHROMIC DOSIMETERS FOR MEDICAL AND ENVIRONMENTAL APPLICATIONS**Speaker**

Hagos Tesfay Medhin (Addis Ababa University College of Health Sciences Department of Internal Medicine Nuclear Medicine Unit)

5:21 – 5:41 PM (20m)

RAPID DETECTION OF THORIUM, RADIUM, AND ACTINIUM IMPURITIES IN Th-228 DECAY SERIES ISOTOPE PRODUCTS**Speaker**

Madeleine Eddy (Eichrom Technologies, LLC)

5:41 – 5:56 PM (15m)

IMPLEMENTATION OF A QUALITY MANAGEMENT SYSTEM IN A CYCLOTRON-PET/CT RADIOPHARMACEUTICAL PRODUCTION LABORATORY**Speaker**

Ana María Guzmán Jiménez (Universidad de Costa Rica)

5:56 – 6:11 PM (15m)

VALIDATION OF A SIMPLIFIED METHOD FOR THE DETERMINATION OF AMINOPOLYETHER AS PART OF THE QUALITY CONTROL OF ^{18}F -FDG**Speaker**

Ms Ana María Guzmán Jiménez (Universidad de Costa Rica)

6:30 PM

Wed, February 18

8:00 AM

Wed, February 18

8:00 – 9:00 AM

Plenary Session - Wed & Panel 4. Policy, Economics, and Global Impact of Isotope Production and Use

Session | **Location:** Grand Hotel Mediterraneo, Plenaria: Europa-Asia-Africa Room | **Conveners:** Marie-Claude Gregoire (Canadian Nuclear Laboratories), Lidia Matei (Canadian Nuclear Laboratories)

8:00 – 8:20 AM (20m)

CANADA'S MEDICAL ISOTOPE SUCCESS STORY: A HISTORY OF FIRSTS

Speaker

James Scongack (Bruce Power)

8:20 – 8:40 AM (20m)

PUBLIC PERCEPTION AND POLICY IN THE NUCLEAR RENAISSANCE: CIVIC ENGAGEMENT AND LESSONS FROM THE ITALIAN EXPERIENCE

Speaker

Riccardo Mariscalco (Comitato Nucleare e Ragione)

8:40 – 9:00 AM (20m)

PRODUCTION & SUPPLY OF ISOTOPES IN CHINA

Speaker

Jin Du (China National Nuclear Corporation (CNNC))

9:00 AM

9:00 AM

Wed, February 18

9:00 – 10:30 AM

President Forum: The Isotope Eco-System and Building Resiliency

Session | **Location:** Grand Hotel Mediterraneo, Plenaria: Europa-Asia-Africa Room | **Conveners:**
Paul T. Dickman (WCI), Bernard Ponsard (Belgian Nuclear Research Centre)

9:00 – 10:30 AM (1h 30m)

The WCI President Forum**Speakers**

Bernard Ponsard (Belgian Nuclear Research Centre), Paul T. Dickman (WCI)

Subcontributions

20m

Panel Members**Speakers**

Anikitos Garofalakis (Nuclear Energy Agency, Senior Medical Radioisotopes Advisor), Greg Moffitt (Nusano Corporation, Senior Director of Product Development), Monica Regalbuto (Canadian Nuclear Laboratories, VP Science & Technology), Melody Greaves (Canadian Nuclear Isotope Council, Executive Director)

10:30 AM

10:30 AM

Wed, February 18

10:30 - 10:59 AM

10:59 AM

Coffee break

Session | **Location:** Grand Hotel Mediterraneo, Lungarno del Tempio, 44 - 50121, Firenze

10:59 AM

Wed, February 18

10:59 AM – 1:00 PM

1. Isotopes Production and Devices - Wed_S1_A

Session | **Location:** Grand Hotel Mediterraneo, Plenaria: Africa Room | **Conveners:** Tommaso Marchi (INFN - LNL), Nik van der Meulen (PSI)

10:59 – 11:19 AM (20m)

COMPACT LINEAR ACCELERATORS FOR RADIOISOTOPE PRODUCTION

Speaker

Alessandra Lombardi (cern)

11:19 – 11:39 AM (20m)

α -PARTICLE-EMITTING MEDICAL-ISOTOPE PRODUCTION FACILITY BASED ON A HIGH INTENSITY PROTON SUPERCONDUCTING LINAC ACCELERATOR

Speaker

Zhi Qin (Institute of Modern Physics)

11:39 – 11:59 AM (20m)

RESONANT IONIZATION LASER ION SOURCE FOR HIGH-PURITY RADIOACTIVE ION BEAMS AT SPES, INFN-LNL

Speaker

Omorjit Singh Khwairakpam (Istituto Nazionale di Fisica Nucleare)

11:59 AM – 12:14 PM (15m)

RADIOISOTOPE PRODUCTION WITH HIGH-POWER LASERS: HOW TO APPROACH

Speaker

Dimiter Balabanski (ELI-NP, IFIN-HH)

12:14 – 12:29 PM (15m)

ADVANCING THERANOSTIC RADIOISOTOPE PRODUCTION THROUGH ION LINEAR ACCELERATOR BASED TECHNOLOGIES

Speaker

Antoniou Fanouria (CERN)

12:29 – 12:44 PM (15m)

POWERING THE FUTURE OF NUCLEAR MEDICINE: SCALABLE SOLUTIONS FOR GLOBAL ISOTOPE DEMAND

Speaker

John Burta (Laurentis Energy Partners)

12:44 – 12:59 PM (15m)

FIRST MEASUREMENT OF At-210,211 CROSS SECTIONS USING THE GANIL SPIRAL2 LINAC

Speaker

Anne-Marie Frelin (GANIL)

1:00 PM

11:00 AM **Wed, February 18**

11:00 AM – 1:00 PM

3. Isotopes in the Environment - Wed_S1_B

Session | **Location:** Grand Hotel Mediterraneo, Plenaria: Asia Room | **Conveners:**
Giuseppe Lepori, Sonja Schreurs (UHasselt)

11:00 – 11:20 AM (20m)

ENVIRONMENTAL RADIOACTIVITY MAPPING IN ITALY: INSIGHT FROM THE ITALRAD PROJECT**Speaker**

Fabio Mantovani (Istituto Nazionale di Fisica Nucleare)

11:20 – 11:40 AM (20m)

ASSESSMENT OF RADON AND RADIUM IN DRINKING SPRING WATER IN THE REGION OF BEIRA INTERIOR, PORTUGAL**Speaker**

Caroline Licour (Universidade da Beira Interior, Portugal)

11:40 AM – 12:00 PM (20m)

TIME-RESOLVED GAMMA SPECTROMETRY FOR DISENTANGLING NATURAL AND ANTHROPOGENIC AIRBORNE RADIONUCLIDES**Speaker**

Nedime Irem Elek (Istituto Nazionale di Fisica Nucleare)

12:00 – 12:20 PM (20m)

FROM SOIL TO TREE: ELEMENTAL DRIVERS FOR TIMBER TRACEABILITY**Speaker**

Gabriele Rossini Moreira (University of São Paulo, Nuclear Energy Center for Agriculture (CENA/USP))

12:20 – 12:40 PM (20m)

RADIOXEON MEASUREMENTS AND SOURCES IN ATLANTA, GEORGIA, USA**Speaker**

Steven Biegalski (Georgia Institute of Technology)

1:00 PM

11:01 AM Wed, February 18

11:01 AM - 1:00 PM

2. Isotope Applications - Wed_S1_C

Session | **Location:** Grand Hotel Mediterraneo, Plenaria: Europa Room | **Conveners:**
Prof. Bernd Neumaier, Małgorzata Żółtowska (NCBJ Radioisotope Centre POLATOM)

11:01 - 11:21 AM (20m)

188-Re-LABELED PSMA INHIBITOR FOR SPECT IMAGING AND TARGETED RADIONUCLIDE THERAPY

Speaker

Zhibo Liu (Peking University)

11:21 - 11:41 AM (20m)

161-Tb-LABELED GASTRIN ANALOGUE AS A NOVEL TOOL FOR PRECISION TREATMENT OF ADVANCED MEDULLARY THYROID CANCER - STUDY DESIGN OF A PROSPECTIVE PHASE I/II CLINICAL TRIAL (ACRONYM: MTC-Tb)

Speaker

Renata Mikolajczak (Polatom NCBJ)

11:41 - 11:56 AM (15m)

ADVANTAGES OF COBALT-60 IN BRAIN RADIOSURGERY

Speaker

Riccardo Bevilacqua (Elekta Instrument AB)

11:56 AM - 12:11 PM (15m)

APPLICATION OF THE I-125 ISOTOPE FOR DEVELOPMENT OF A RADIOBIOASSAY FOR QUANTIFICATION OF HUMAN C-REACTIVE PROTEIN

Speaker

Ghodke Tánhaji Sandu (Mangalore University)

12:11 - 12:26 PM (15m)

RADIOBIOLOGY EXPERIMENTS WITH Ag-111 FOR THE ISOLPHARM PROJECT

Speaker

Aurora Leso (Istituto Nazionale di Fisica Nucleare)

12:26 - 12:41 PM (15m)

FROM ISOTOPES TO PRECISION ONCOLOGY: INNOVATION AND HUMAN RESOURCE DEVELOPMENT IN BNCT

Speaker

Setareh Fatemi (Istituto Nazionale di Fisica Nucleare)

1:00 PM

11:02 AM **Wed, February 18**

11:02 AM - 1:00 PM

7. Education - Wed_S1_D

Session | **Location:** Grand Hotel Mediterraneo, Pacifico Room | **Conveners:**
Clemens Walther, Alberto Quaranta (TIFPA - University of Trento)

11:02 - 11:22 AM (20m)

**ADVANCING GLOBAL COMPETENCE IN DIAGNOSTIC AND THERAPEUTIC
RADIOISOTOPES AND RADIOPHARMACEUTICALS THROUGH E-LEARNING AND LAB-
TRAINING: COLLABORATION BETWEEN WCI, IAEA AND KAERI**

Speaker

Syed Qaim (Forschungszentrum Jülich)

11:22 - 11:42 AM (20m)

CHERNE, 20 YEARS OF AN INTERNATIONAL NETWORK FOCUSED ON STUDENTS

Speaker

Isabelle Gerardy (HE2B-ISIB)

11:42 AM - 12:02 PM (20m)

PARTICLE THERAPY MASTERCLASS AS MEANS OF CAPACITY BUILDING

Speaker

Yiota Foka (GSI/CERN)

12:02 - 12:17 PM (15m)

**DEVELOPING THE NEXT GENERATION OF ISOTOPE SCIENTISTS: A MIDPOINT
REVIEW**

Speaker

Braden Goddard (Virginia Commonwealth University)

12:17 - 12:32 PM (15m)

**THE CINCH HUB PLATFORM FOR SUSTAINABLE E&T IN NUCLEAR AND
RADIOCHEMISTRY**

Speaker

Elena Macerata (Istituto Nazionale di Fisica Nucleare)

12:32 - 12:47 PM (15m)

NORWEGIAN NUCLEAR RESEARCH CENTRE

Speaker

Mr Simon Jerome (Norges miljø- og biovitenskapelige universitet)

12:47 - 1:00 PM (13m)

**MODERN INSTRUMENTATION FOR PHYSICS EDUCATION: A FOCUS ON
RADIOACTIVITY**

Speaker

Cristina Mattone (CAEN SpA)

1:00 PM

1:01 PM

Wed, February 18

1:01 - 2:29 PM

2:29 PM

Lunch & Poster Session

Session | **Location:** Grand Hotel Mediterraneo, Lungarno del Tempio, 44 - 50121, Firenze

2:29 PM

Wed, February 18

2:29 – 4:30 PM

1. Isotopes Production and Devices - Wed_S2_A

Session | **Location:** Grand Hotel Mediterraneo, Plenaria: Africa Room | **Conveners:** Michele Colucci (UNIMI), Hiromitsu Haba (RIKEN)

2:29 – 2:49 PM (20m)

ISOTOPE ISOLATION FROM MASSIVE PROTON-IRRADIATED TARGETS AT LOS ALAMOS NATIONAL LABORATORY

Speaker

Veronika Mocko (Los Alamos National Laboratory)

2:49 – 3:09 PM (20m)

FROM ACCELERATOR WASTE TO RESEARCH: ISOLATION AND USE OF LONG-LIVED RADIONUCLIDES AT THE PAUL SCHERRER INSTITUTE

Speaker

Zeynep Talip (-)

3:09 – 3:29 PM (20m)

TOWARDS RELIABLE SUPPLY OF RADIOISOTOPICALLY PURE TERBIUM: CAN MOLECULAR EXTRACTION COMBINED WITH MASS SEPARATION BRING US CLOSER TO THE CLINICS?

Speaker

Wiktoria Wojtaczka (KU Leuven)

3:29 – 3:44 PM (15m)

A SEMIAUTOMATED SYSTEM FOR SAFE AND CLEAN PURIFICATION OF RUTHENIUM-106 FROM FISSION PRODUCTS: ENABLING PRACTICALITY FOR OPHTHALMIC APPLICATIONS

Speaker

Dr Simindokht Shirvani Arani (Nuclear Science and Technology Research Institute)

3:44 – 3:59 PM (15m)

INDIRECT PRODUCTION OF Tb-155 USING NATURAL TERBIUM TARGETS: A TWO-STEP RADIOCHEMICAL SEPARATION APPROACH

Speaker

Anzhelika N. Moiseeva (PSI)

3:59 – 4:14 PM (15m)

OPTIMIZATION OF Ga-68 SEPARATION FROM SOLID TARGETS IRRADIATED AT A MEDICAL CYCLOTRON

Speaker

Pascal Grundler (Paul Scherrer Institut)

4:14 – 4:29 PM (15m)

DEVELOPMENT OF A ROBUST METHOD FOR ISOLATION OF I-124 PRODUCED VIA Te-124(p,n)I-124 REACTION FOR RADIOPHARMACEUTICAL PREPARATION

Speaker

Rajwardhan Ambade (Bhabha Atomic Research Centre)

4:30 PM

2:30 PM

Wed, February 18

2:30 – 4:30 PM

3. Isotopes in the Environment - Wed_S2_B

Session | **Location:** Grand Hotel Mediterraneo, Plenaria: Asia Room | **Conveners:**
Andrew Burgoyne, Fabio Mantovani (Istituto Nazionale di Fisica Nucleare)

2:30 – 2:50 PM (20m)

THE APPROPRIATE ENVIRONMENTAL SAMPLE TO EDUCATE NOVICE STUDENTS IN ENVIRONMENTAL RADIOACTIVITY MEASUREMENTS USING GAMMA RAY SPECTROSCOPY

Speaker

Sheldon Landsberger (University of Texas)

2:50 – 3:10 PM (20m)

MANAGEMENT OF TECHNOLOGICALLY ENHANCED RADIOACTIVE MATERIAL (TENORM) IN THE OIL&GAS COMPANIES ACTIVITIES, THE ENI EXPERIENCE.

Speaker

Dr Giuseppe Lepori (Eni SpA)

3:10 – 3:25 PM (15m)

MACHINE LEARNING ALGORITHMS FOR SOIL TEXTURE PREDICTION FROM AIRBORNE RADIOMETRIC SURVEYS

Speaker

Nedime Irem Elek (Istituto Nazionale di Fisica Nucleare)

3:25 – 3:40 PM (15m)

RADIOTRACERS FOR THE STUDY OF MARINE AND OCEANIC ECOSYSTEM: THE CLIMOCEAN PROJECT

Speaker

Simone Rocca (Istituto Nazionale di Fisica Nucleare e UniPD)

3:40 – 3:55 PM (15m)

CONDITIONS FOR SYNTHESIS OF $^{203}\text{[HG]METHYL MERCURY}$ IN BUFFERED SOLUTIONS: INVESTIGATING MECHANISMS OF MERCURY LOSS AND CHEMICAL STABILITY

Speaker

Flora Mansour (ANSTO)

4:30 PM

2:31 PM

Wed, February 18

2:31 – 4:30 PM

2. Isotope Applications - Wed_S2_C

Session | **Location:** Grand Hotel Mediterraneo, Plenaria: Europa Room | **Conveners:**
Petra Martini (Istituto Nazionale di Fisica Nucleare), Arnaud GUERTIN (CNRS/IN2P3/SUBATECH)

2:31 – 2:51 PM (20m)

NANOMEDICINE APPROACHES FOR TARGETED ALPHA THERAPY AND THERANOSTICS

Speaker

Sandra Davern (Oak Ridge National Laboratory)

2:51 – 3:11 PM (20m)

HUMAN SERUM ALBUMIN COATED DYSPROSIUM OXIDE NANOPARTICLES AS IN VIVO GENERATOR OF Dy-166/Ho-166

Speaker

Ms Sanchita Ghosh (Homi Bhabha National Institute, Anushaktinagar, Mumbai 400094, India.
Radiopharmaceuticals Division, Bhabha Atomic Research Centre, Trombay, Mumbai 400085, India)

3:11 – 3:31 PM (20m)

RADIOLABELLING OF AN OCTADENTATE BISPIDINE LIGAND WITH THERANOSTIC PAIR OF SCANDIUM

Speaker

Théo Demartinécourt (GIP ARRONAX)

3:31 – 3:46 PM (15m)

FULLY AUTOMATED RADIOACTIVE COPPER NANOPARTICLE SYNTHESIS: TARGET DEVELOPMENT, SEPARATION, AND SYNTHESIS

Speaker

Volkan Yasakci

3:46 – 4:01 PM (15m)

IN VITRO OPTIMIZATION OF IEDDA CLICK RADIOLABELING TOWARD THE DEVELOPMENT OF PRETARGETED IMAGING

Speaker

Prof. Feng-Yun Jimmy Huang (Central Taiwan University of Science and Technology)

4:01 – 4:15 PM (14m)

IN VITRO EVALUATION OF Ga-68/Lu-177 ANTI-HER2 PRETARGETED RADIOIMMUNOTHERAPY PLATFORM USING BIOORTHOGONAL CLICK CHEMISTRY

Speaker

Ching-Wen Cheng (Central Taiwan University of Science and Technology)

4:16 – 4:29 PM (13m)

$\alpha\beta$ 6-INTEGRIN AS A THERANOSTIC TARGET: ADDRESSING CANCERS AND NON-CANCER DISEASES WITH VARIOUS NUCLIDES

Speaker

Johannes Notni

4:30 PM

2:31 PM

Wed, February 18

2:31 – 4:30 PM

9. Young Scientists - Wed_S2_D

Session | **Location:** Grand Hotel Mediterraneo, Pacifico Room | **Conveners:**
Isabelle Gerardy (HE2B-ISIB), Massimiliano Clemenza (Istituto Nazionale di Fisica Nucleare)

2:31 – 2:46 PM (15m)

MACHINE LEARNING CLASSIFICATION FOR IRRADIATED MATERIAL GAMMA RAY SPECTRA

Speaker

Abigail Taylor (Georgia Institute of Technology)

2:46 – 3:01 PM (15m)

A HISTORICAL RECONSTRUCTION OF THE CONCEPT OF ISOTOPE AND ITS EDUCATIONAL VALUE

Speaker

Luisa Loviseti (Università degli Studi di Milano)

3:01 – 3:16 PM (15m)

EXPERIENTIAL LEARNING FOR HIGH SCHOOL STUDENTS TO MEASURE NATURAL RADIOACTIVITY USING PORTABLE GAMMA RAY DETECTOR

Speaker

Ghulam Hasnain (Istituto Nazionale di Fisica Nucleare)

3:16 – 3:31 PM (15m)

IMPACT OF B⁻ EMITTING RADIONUCLIDES PROPERTIES ON DOSIMETRIC OUTCOMES OF TUMOR-TARGETING RADIOPHARMACEUTICALS

Speaker

Samuele De Zan (Università degli studi di Padova)

3:31 – 3:46 PM (15m)

PRIMARY STANDARDISATION AND γ -Ray EMISSION PROBABILITY OF $^{166}\text{Ho-m}$ AT NRC

Speaker

Alexandra Bourguin (National Research Council Canada (NRC))

3:46 – 4:01 PM (15m)

IMPROVEMENT OF RADIOACTIVE GAS RETENTION SYSTEM DURING ^{18}F -FDG PRODUCTION

Speaker

Mr Ernesto Corrales Corrales (Universidad de Costa Rica, Laboratorio Ciclotrón PET/CT, CICANUM, Escuela de Física)

4:01 – 4:16 PM (15m)

GEANT4 IMAGE-BASED CELLULAR DOSIMETRY FOR IN-VITRO AG-111-IRRADIATED LNCaP CELLS WITHIN THE ISOLPHARM PROJECT

Speaker

Giulia Saveria Valli (Università di Siena)

4:30 PM

4:30 PM

Wed, February 18

4:30 – 4:59 PM

4:59 PM

Coffee break

Session | **Location:** Grand Hotel Mediterraneo, Lungarno del Tempio, 44 - 50121, Firenze

4:59 PM

Wed, February 18

4:59 – 6:30 PM

1. Isotopes Production and Devices - Wed_S3_A

Session | **Location:** Grand Hotel Mediterraneo, Plenaria: Africa Room | **Conveners:** alessandra lombardi (cern), Carl Wheldon (University of Birmingham)

4:59 – 5:19 PM (20m)

EVALUATION AND OPTIMISATION OF DATA FOR ACCELERATOR-BASED PRODUCTION OF MEDICALLY RELEVANT RADIONUCLIDES

Speaker

Nouman Amjed (Department of Physics, Division of Science and Technology, University of Education)

5:19 – 5:39 PM (20m)

FILLING PHOTONUCLEAR DATA GAPS IN SUPPORT OF ISOTOPE PRODUCTION

Speaker

Daniel Dale (Idaho State University)

5:39 – 5:59 PM (20m)

MEASUREMENTS OF NUCLEAR REACTION CROSS SECTIONS USING A TANDEM ACCELERATOR AND A TRIGA REACTOR: DEVELOPMENT OF PRODUCTION ROUTES OF SOME NOVEL MEDICAL RADIONUCLIDES

Speaker

Md. Shuza Uddin (Tandem Accelerator Facilities, Institute of Nuclear Science and Technology, Atomic Energy Research Establishment, Savar, Dhaka-1349, Bangladesh)

5:59 – 6:14 PM (15m)

MEDICAL RADIONUCLIDE PRODUCTION R&D AT THE BERKELEY NUCLEAR DATA PROGRAM

Speaker

Andrew Voyles (UC Berkeley / LBNL)

6:14 – 6:29 PM (15m)

PRODUCTION OF ^{155}Tb VIA HEAVY-ION INDUCED REACTIONS ON NEODYMIUM TARGETS

Speaker

Nitin Sharma (RIMT University)

6:30 PM

5:00 PM

Wed, February 18

5:00 – 6:30 PM

1. Isotopes Production and Devices - Wed_S3_B

Session | **Location:** Grand Hotel Mediterraneo, Plenaria: Asia Room | **Conveners:** Antoniou Fanouria (CERN), Flavia Maria Groppi (Istituto Nazionale di Fisica Nucleare)

5:00 – 5:20 PM (20m)

ISOTOPE MASS-SEPARATION: RECENT DEVELOPMENTS FOR CLINICAL RESEARCH AT CERN-MEDICIS AND FOR PRISMAP

Speaker

Thierry Stora (CERN-ISOLDE)

5:20 – 5:40 PM (20m)

SECURING THE PRODUCTION OF RADIOISOTOPES IN RESEARCH AND POWER REACTORS

Speaker

Dr Bernard Ponsard (Belgian Nuclear Research Centre)

5:40 – 6:00 PM (20m)

THE SPES ISOL FACILITY: COMMISSIONING WITH RADIOACTIVE ION BEAMS AND FUTURE DEVELOPMENTS AT LEGNARO NATIONAL LABORATORIES

Speaker

Mattia Manzolaro (Istituto Nazionale di Fisica Nucleare)

6:00 – 6:15 PM (15m)

PRODUCTION OF Co-55 THROUGH AUTOMATED ELECTROPLATING AND PURIFICATION TECHNIQUES

Speaker

Mario Malinconico (COMECER S.p.A. - R&D Department)

6:15 – 6:30 PM (15m)

A THEORETICAL FRAMEWORK FOR ISOTOPE PRODUCTION AT THE SPES ISOL FACILITY: MAGNESIUM-28 AS A CASE-STUDY

Speaker

Alberto Arzenton (INFN-Sez. Padova, Italy)

6:30 PM

5:00 PM

Wed, February 18

5:00 – 6:30 PM

4. Policy, Economics, and Global Impact of Isotope Production and Use - Wed_S3_C

Session | **Location:** Grand Hotel Mediterraneo, Plenaria: Europa Room | **Conveners:** Marie-Claude Gregoire (Canadian Nuclear Laboratories), Lidia Matei (Canadian Nuclear Laboratories)

5:00 – 5:20 PM (20m)

RADIOPHARMACEUTICALS AND ISOTOPES: THE TRAJECTORY AND POSITIONING FOR GROWTH

Speaker

Ram Mullur (Astral Systems)

Location

Grand Hotel Mediterraneo, Plenaria: Europa Room

5:20 – 5:35 PM (15m)

ATOMS FOR ALL? RETHINKING EQUITY IN GLOBAL NUCLEAR GOVERNANCE THROUGH THE LENS OF PEACEFUL RESEARCH REACTOR ACCESS

Speaker

Anam Murad Khan (Center for International Strategic Studies Islamabad)

Location

Grand Hotel Mediterraneo, Plenaria: Europa Room

5:35 – 5:49 PM (14m)

THE JAPAN ASTATINE COMMUNITY: TOWARD A COLLECTIVE BRAIN IN ²¹¹At SCIENCE AND CLINICAL TRANSLATION

Speaker

Dr Kohshin Washiyama (Advanced Clinical Research Center, Fukushima Medical University)

Location

Grand Hotel Mediterraneo, Plenaria: Europa Room

5:50 – 6:05 PM (15m)

CNL INTEGRATED ISOTOPES STRATEGY: ADVANCING CANADA'S POSITION IN THE GLOBAL ISOTOPE ECOSYSTEM

Speaker

Randy Perron (Canadian Nuclear Laboratories)

Location

Grand Hotel Mediterraneo, Plenaria: Europa Room

6:30 PM

5:02 PM

Wed, February 18

5:02 – 6:33 PM

9. Young Scientists - Wed_S3_D

Session | **Location:** Grand Hotel Mediterraneo, Pacifico Room | **Conveners:**

Yiota Foka (GSI/CERN), Elisabete A. De Nadai Fernandes (University of São Paulo, Nuclear Energy Center for Agriculture (CENA/USP))

5:02 – 5:17 PM (15m)

TRACEABILITY OF LOW-LEVEL Ra-226 ISOTOPE MEASUREMENT FOR LONG-TERM ENVIRONMENTAL METROLOGY

Speaker

Mr SAMIM MOLLA (Bhabha Atomic Research Centre)

5:17 – 5:32 PM (15m)

TRACEABILITY OF BRAZILIAN BELT SOYBEAN SUPPORTED BY ANALYTICAL TECHNIQUES AND MACHINE LEARNING APPROACHES

Speaker

Mr Robson Campos de Lima (Nuclear Energy Centre for Agriculture, University of São Paulo)

5:32 – 5:47 PM (15m)

SOIL TO PLANT TRANSFER FACTOR DEPENDS ON GROWTH CYCLE: THE USE OF SUNFLOWERS FOR PHYTOREMEDIATION OF RADIONUCLIDE-CONTAMINATED SOIL

Speaker

Hannah Keßler (IRS, University of Hannover, Germany)

5:47 – 6:02 PM (15m)

DIRECT CONDITIONING OF RADIOACTIVE LIQUID ORGANIC WASTE IN NOVEL GEOPOLYMERS: A DURABILITY AND ROBUSTNESS STUDY

Speaker

Simona Sandalova (Politecnico di Milano)

6:02 – 6:17 PM (15m)

FEASIBILITY STUDY ON AN OPTIMIZED GAMMA RAY SCREENING METHODOLOGY FOR A MEDICAL CYCLOTRON BODY USING MONTE CARLO SIMULATIONS

Speaker

Seungbeom Goh (Department of Nuclear Engineering, Hanyang University, Seoul, South Korea)

6:17 – 6:32 PM (15m)

DEVELOPMENT OF SEPARATION METHOD FOR DIFFICULT-TO-MEASURE RADIONUCLIDES FROM NUCLEAR DECOMMISSIONING

Speaker

Eya ABED (Subatech, France)

6:33 PM

7:15 PM

Wed, February 18

7:15 – 7:45 PM

7:45 PM

Transfert to Piazzale Michelangelo by bus

Session | **Location:** Grand Hotel Mediterraneo, Lungarno del Tempio, 44 - 50121, Firenze

8:00 PM

Wed, February 18

8:00 - 11:30 PM

11:30 PM

Gala Dinner & Award Ceremony

Session | **Location:** Piazzale Michelangelo, Florence, Italy, "La Loggia" Restaurant

Thu, February 19

8:59 AM Thu, February 19

8:59 – 10:00 AM

1. Isotopes Production and Devices - Thu_S1_A

Session | **Location:** Grand Hotel Mediterraneo, Plenaria: Africa Room | **Conveners:**
Renata Mikolajczak (Polatom NCBJ), Andrea Gandini (Università degli studi di Pavia -L.E.N.A)

8:59 – 9:19 AM (20m)

PRODUCTION OF NO-CARRIER-ADDED HOLMIUM-166 BY DOUBLE NEUTRON CAPTURE AT MCMASTER NUCLEAR REACTOR

Speaker

Dr Karin Nielsen (McMaster University)

9:19 – 9:39 AM (20m)

SIMULTANEOUS Ac-225 & Pb-212 PRODUCTION USING ACCELERATOR-PRODUCED SECONDARY NEUTRONS

Speaker

Lee Bernstein (UC Berkeley/LBNL)

9:39 – 9:59 AM (20m)

PRODUCTION OF THERAGNOSTIC RADIONUCLIDES WITH NEUTRON ACTIVATOR: FESTA EXPERIMENTS

Speaker

Jean-Michel Horodyski (CNRS - iRSD)

10:00 AM

9:00 AM

Thu, February 19

9:00 – 10:00 AM

1. Isotopes Production and Devices - Thu_S1_B

Session | Location: Grand Hotel Mediterraneo, Plenaria: Asia Room | Conveners:
Arnaud GUERTIN (CNRS/IN2P3/SUBATECH), Juan Esposito (Istituto Nazionale di Fisica Nucleare)

9:00 – 9:20 AM (20m)

EMERGING ACCELERATOR-BASED RADIONUCLIDES TOWARDS THE
THERAGNOSTICS PRINCIPLE: DEVELOPMENT AND TRANSLATION

Speaker
Nick van der Meulen

9:20 – 9:40 AM (20m)

DEMONSTRATING THE RADIONUCLIDIC PURITY OF ACTINIUM-225 PRODCUED
FROM A RADIUM-225 GENERATOR

Speaker
Dr Frank Scholz (NorthStar Medical Radioisotopes)

9:40 – 10:00 AM (20m)

APHRODITE-155_ACCELERATOR-BASED PRODUCTION OF THERANOSTIC
RADIONUCLIDES: INVESTIGATIONS ON TERBIUM-155

Speaker
Petra Martini (Università di Ferrara)

10:00 AM

9:01 AM

Thu, February 19

9:01 – 10:00 AM

2. Isotope Applications - Thu_S1_C

Session | **Location:** Grand Hotel Mediterraneo, Plenaria: Europa Room | **Conveners:**
Mario Malinconico (COMECER S.p.A. - R&D Department), Veronika Mocko (Los Alamos National Laboratory)

9:01 – 9:21 AM (20m)

GREEN & SUSTAINABLE APPROACHES TO ISOTOPE LABELLING

Speaker

Ross Jansen van Vuuren (University of Ljubljana)

9:21 – 9:40 AM (19m)

EFFICIENT SCREENING OF CATION EXCHANGE RESINS FOR RADIOLANTHANIDE SEPARATIONS

Speaker

Flora Mansour (ANSTO)

9:40 – 10:00 AM (20m)

EFFICIENT SYNTHESIS OF [68GA]GA-LABELED BIVALENT HER2 PEPTIDE PROBE ENABLED BY CBT/1,2-AMINOTHIOL BIOORTHOGONAL CLICK CHEMISTRY

Speaker

Dr Kuo-Ting Chen

10:00 AM

9:02 AM Thu, February 19

9:02 - 10:00 AM

7. Education - Thu_S1_D

Session | **Location:** Grand Hotel Mediterraneo, Pacifico Room | **Conveners:** Michele Colucci (UNIMI), Yiota Foka (GSI/CERN)

9:02 - 9:22 AM (20m)

INTEGRATING AI-DRIVEN TOOLS AND VIRTUAL LABORATORIES IN RADIOISOTOPE HANDLING TRAINING

Speaker

Elena Macerata (Istituto Nazionale di Fisica Nucleare)

9:22 - 9:41 AM (19m)

LINKEDIN AS THE NEW CLASSROOM: STORYTELLING AND AI FOR NUCLEAR COMMUNICATION

Speaker

Riccardo Bevilacqua (Elekta Instrument AB)

9:41 - 10:00 AM (19m)

INFN TRAINING AND EDUCATIONAL ACTIVITIES ON RADIATION PROTECTION AND IONIZING RADIATION

Speaker

Flavia Maria Groppi (Istituto Nazionale di Fisica Nucleare)

10:00 AM

10:00 AM
10:30 AM

Thu, February 19

10:00 - 10:30 AM

Coffee break
Session | **Location:** Grand Hotel Mediterraneo, Lungarno del Tempio, 44 - 50121, Firenze

10:30 AM Thu, February 19

10:30 AM – 12:00 PM

8. Marie Curie Session - Thu_S2

Session | Location: Grand Hotel Mediterraneo, Plenaria: Europa-Asia-Africa Room | Convener: Meera Venkatesh

10:30 AM – 12:00 PM (1h 30m) Marie Curie

Subcontributions

20m

Panel Members

Speakers
Petra Martini (Istituto Nazionale di Fisica Nucleare), Renata Mikolajczak (Polatom NCBJ), Yiota Foka (GSI/CERN), Lee Bernstein (UC Berkeley/LBNL)

12:00 PM

12:00 PM Thu, February 19

12:00 - 1:00 PM

Final remarks & Closing Ceremony

Session | **Location:** Grand Hotel Mediterraneo, Plenaria: Europa-Asia-Africa Room | **Conveners:** Flavia Maria Groppi (Istituto Nazionale di Fisica Nucleare), Paul T. Dickman (WCI), Alberto Quaranta (TIFPA - University of Trento), Bernard Ponsard (Belgian Nuclear Research Centre), Gaia Pupillo (Istituto Nazionale di Fisica Nucleare)

1:00 PM

1:00 PM
2:00 PM

Thu, February 19

1:00 - 2:00 PM

Lunch
Session | **Location:** Grand Hotel Mediterraneo, Lungarno del Tempio, 44 - 50121, Firenze

2:30 PM

Thu, February 19

2:30 – 6:30 PM

6:30 PM

Technical Tour

Session | Location: Sesto Fiorentino, Florence, Italy , LABEC, Sesto Fiorentino (FI)