

## **Session Program**

**Jun 7 - 11, 2026**

### **ICDA-5**

## ***Dosimetry and radiation protection in medicine and biology***

Prague, Czechia, CTU in Prague, Faculty of Nuclear Sciences and Physical Engineering  
Břehová 78/7 115 19 Prague 1 Czech Republic GPS. 50.0910372N, 14.4163028E

## Tue, June 9

9:30 AM

### Dosimetry and radiation protection in medicine and biology

Session | Location: Auditorium 103, Břehová 7, Prague 1

9:30 – 9:45 AM

#### Dosimetric Evaluation of SiC Detectors for FLASH Radiotherapy Using GEANT4 Simulations.

**Speaker**

Mustapha Chaoui

9:45 – 10:00 AM

#### Assessment of Two Scanners and Two Softwares on the Calibration Curves and Absorbed Dose of Radiochromic Films

**Speaker**

Jian-Kai Hong

10:00 – 10:15 AM

#### Exploratory evaluation of PTFE ultra-thin films for multi-filter low-energy X-Ray dosimetry

**Speaker**

Prof. David Andrew Bradley

10:15 – 10:30 AM

#### Assessment of dose distribution in Pancreatic SABR in the presence of metal biliary stent using Monte Carlo modelling

**Speaker**

Ahmad abbas

10:30 AM

11:00 AM

### Dosimetry and radiation protection in medicine and biology

Session | Location: Auditorium 103, Břehová 7, Prague 1

11:00 – 11:15 AM

#### Development, Testing, and Applications of a Three-Dimensional Heterogeneous Head Phantom for Boron Neutron Capture Therapy

**Speaker**

Kah Yeen Lim

11:15 – 11:30 AM

#### Dosimetric Evaluation of a Flexible Polymeric Phosphorus-32 Source for Brachytherapy Applications

**Speaker**

Mrs Ana Laura Burin

11:30 – 11:45 AM

#### Estimation of effective dose and imaging protocol assessment for patients undergoing CT perfusion for acute-stroke

**Speaker**

Omar Noor

11:45 AM – 12:00 PM

**LINEAR ACCELERATOR QUALITY ASSURANCE THROUGH A NOVEL ALANINE-BASED POSTAL DOSIMETRY AUDIT SYSTEM****Speaker**

ARICIA CRUZ

12:15 PM

2:00 PM

**Dosimetry and radiation protection in medicine and biology****Session** | **Location:** Auditorium 103, Břehová 7, Prague 1

2:00 – 2:15 PM

**Feasibility of a Lead Curtain for Reducing Scatter Radiation in the Control Console Area During General Radiography****Speaker**

Mr CHIEH JUI LI

2:15 – 2:30 PM

**Monte Carlo Evaluation of Neutron Dose in Organ in a Paediatric Phantom during Pencil Beam Scanning Proton Therapy****Speaker**

Adrián Díaz Comeche

2:30 – 2:45 PM

**Evaluation of Secondary Neutron Out-of-Field Dose from Proton Head Irradiation at MedAustron.****Speaker**

Dr Marta Mumot

2:45 – 3:00 PM

**Development of Exposure Maps in Targeted Radionuclide Treatments for Caregivers and Professionals using the WIDMApp Personalized Dosimetry Approach****Speaker**

Massimiliano Antonini

3:00 – 3:15 PM

**Impact of Digital Phantom Modelling on Mean Glandular Dose Estimation in Propagation-Based Phase-Contrast Breast CT: A Monte Carlo Study****Speaker**

AMIR HASSAN ENTEZAM

3:30 PM

## Wed, June 10

11:00 AM

### Dosimetry and radiation protection in medicine and biology

Session | Location: Auditorium 103, Břehová 7, Prague 1

11:00 - 11:15 AM

#### Dosimetric Assessment of Current Administered Activity Regimens in [<sup>131</sup>I]-mIBG Therapy for High-Risk Neuroblastoma: Implications for Treatment Efficacy

**Speaker**

Mrs Tereza Kráčmerová

11:15 - 11:30 AM

#### Monte Carlo dose simulations with GEANT4 of new boron-based techniques in proton therapy

**Speaker**

Tommaso Maggipinto

11:30 - 11:45 AM

#### Prompt Gamma Imaging for Range Verification in Hadrontherapy: Monte Carlo Study and Experimental Characterization

**Speaker**

Emma Sofia Bellotti

11:45 AM - 12:00 PM

#### Analysis of Reduced Angular Sampling in 2D Fan-Beam and 3D Cone-Beam CT Using ASTRA-CUDA Framework

**Speaker**

GUMERSINDO JESUS VERDU MARTIN

12:00 - 12:15 PM

#### UHDR Electron Beam Characterization and monitoring with Timepix3 detector

**Speaker**

Pavel Špišek

12:15 PM

# Thu, June 11

11:00 AM

## Dosimetry and radiation protection in medicine and biology

Session | Location: Auditorium 103, Břehová 7, Prague 1

11:00 - 11:15 AM

### Geometrical Optimisation of Glass Fibre-Coupled Ge-Doped Silica Scintillators for FLASH Electron Dosimetry

**Speaker**

HT ZUBAIR

11:15 - 11:30 AM

### Preliminary assessment of out-of-field fetal dose with protons in pregnant patients using ICRP female mesh phantoms

**Speaker**

Prof. Gonzalo Garcia

11:30 - 11:45 AM

### Neutron Dosimetry Challenges in Proton Therapy: Results and Methodology from the EDNEP Project

**Speaker**

Prof. Gonzalo Garcia

11:45 AM - 12:00 PM

### Relative dosimetry in MR-guided linear accelerators in photon radiotherapy

**Speaker**

Andrea Nathalia Vargas Castillo

12:00 - 12:15 PM

### Relating Absorbed Dose to Biological Effect via DNA Fragmentometry

**Speaker**

Dr Ron Tosh

12:15 PM