International conference on 3D dosimetry
June 15-17, Caen

Sunday 14/06	
11:00 - 18:00	**Mont Saint Michel excursion**
18:00 - 20:00	**Welcome cocktail at GANIL**
	Registration for prepaid participants
Monday 15/06	
8:30 - 9:00	**Registration for prepaid participants**
9:00 - 10:00	**Opening session**
9:00 - 9:15	Welcome from the organizers
9:15 - 10:00	(Opening address) Valentin Blideanu: Primary standards for healthcare: Metrology in support of accurate patient dosimetry
10:00 - 10:30	**Coffee break**
10:30 - 12:20	**3D (and 4D) dosimetry – basics and new developments**
Plenary 1	*Chairs: Peter Balling and Andrew Jirasek*
10:30 - 11:00	(Invited) Yves De Deene: MRI Guided Radiotherapy using Deformable Gel Dosimetry
11:00 - 11:20	Sajjad Ahmad Khan: Study of attenuation correction in sparse-view tomographic dose reconstruction with a static multi-stack scintillating fiber detector
11:20 - 11:40	Anne-Marie Frelin: 3D Proton dose reconstruction from two projections using a scintillation detector
11:40 - 12:00	Dante Roa: Development of a 3D Electronic Detector Array for Radiotherapy Quality Assurance
12:00 - 12:20	Dante Roa: Dosimetric assessment of radiation fields up to 5 × 5 cm^2 using a diode-based 3D Detector for radiotherapy
12:20 - 13:50	**Lunch**
13:50 - 15:10	**New materials and readout methods for advanced and 3D dosimetry**
Plenary 2	*Chairs: Marek Kozicki and Sam Beddar*
13:50 - 14:10	Audran Poher: Cherenkov imaging dosimetry of heterogenous phantom in the context of a MR-Linac
14:10 - 14:30	Patrick Pittet: Bimodal Ga_2O_3-based X-ray detectors for FLASH therapies
14:30 - 14:50	Jacob Christian Warming: Optimising the yield of optically stimulated luminescence in BaF2
14:50 - 15:10	Nicolas Drouin: Planar Dose Imaging in Non-Homogeneous Media Using a Thin Plastic Scintillator
15:10 - 15:40	**Coffee break**
15:40 - 16:40	**3D (and 4D) dosimetry – basics and new developments**
Plenary 3	*Chairs: Louis Archambault and Jean-Marc Fontbonne*
15:40 - 16:10	(Invited) Alexis Horik: Uncertainty-Aware Deep Learning Reconstruction for 3D Scintillation Dosimetry
16:10 - 16:40	(Invited) Daniel Robertson: Measuring Small Collimated Proton Fields with a Volumetric Scintillation Detector
16:40 - 16:50	**Practical information (Cyclhad visit)**
16:50 - 17:50	**Flash talks + Poster session**
18:30 - 20:00	**Optional visit of Cyclhad**

Tuesday 16/06	
8:30 - 9:00	**Registration for prepaid participants**
9:00 - 10:20	**Novel dosimetry for the clinic today and for the emerging irradiation modalities of tomorrow**
Plenary 4	*Chairs: Boyd McCurdy and Louis Archambault*
9:00 - 9:20	Olivia Moluchi: Polymer Gel Dosimetry of Spatially-Fractionated Radiation Therapy with Kilovoltage X-rays
9:20 - 9:40	Jingyi Bian: Characterization of Hydrated Electron Dosimetry under Proton FLASH Beams: Detector Response and Reaction Kinetics
9:40 - 10:00	Fernanda C. Rodrigues-Machado: Cavity-enhanced measurement of individual clinical radiation pulses with a tissue-equivalent medium
10:00 - 10:20	Katherine Szabo: Towards a microscopic water-based fiber-optic detector for real-time, in-vivo, tissue-equivalent radiation dosimetry
10:20 - 10:50	**Coffee break**
10:50 - 12:00	**Linear Energy Transfer (LET) mapping**
Plenary 5	*Chairs: Brian Julsgaard and Rémi Lafaye*
10:50 11:20	(Invited) Mads Lykke Jensen: Experimental validation of dose and LET distributions for treatment plans in anthropomorphic phantoms
11:20 - 11:40	Jeppe Brage Christensen: Mapping LET in high-dose regions and mixed particles fields with OSL using track structure theory
11:40 - 12:00	Francesco Mazza: Microdosimeters for Fluence Rate Measurement and Linear Energy Transfer mapping
12:00 - 13:30	**Lunch**
13:30 - 15:10	**Clinical dosimetry applications**
Plenary 6	*Chairs: John Schreiner and Simon Doran*
13:30 - 13:50	Elena Fanelli: Characterization and 3D printing of a tissue equivalent anthropomorphic neck phantom for 2.5D dosimetric verification in radiotherapy
13:50 - 14:10	Gabrielle Lee: Development of a 3D Slicer Extension for MR-Based Gel Dosimetry Analysis
14:10 - 14:30	Kevin Alexander: Three-dimensional MRI-based FXO Gel Dosimetry for Verification of HDR Venezia Applicator Cervix Brachytherapy
14:30 - 14:50	Aurélien Beaumais: Fricke-Xylenol orange-Gelatin gel dosimetry combined with RUBY modular base phantom: Error detectability for stereotactic radiotherapy plan verification
14:50 - 15:10	Giulia Tosetti: Evaluation of a New Detector Design for Measuring Superficial 2D Dose Distributions in Proton Therapy for Skin Cancer
15:10 - 15:40	**Coffee break**
15:40 - 16:30	**Optically-stimulated-luminescence (OSL) based 3D dosimetry**
Plenary 7	*Chairs: Brian Julsgaard and Sven Bäck*
15:40 - 16:10	(Invited) Michal Sadel: OSL-based silicone foils for 3D proton dosimetry: from clinical plan verification to single-shot Bragg curve mapping
16:10 - 16:30	Sarah Johanne Gade Clausen: High-resolution 2.5D dosimetry of proton therapy using optically stimulated luminescence films in an anthropomorphic neck phantom
16:30 - 16:45	**Practical information (Conference dinner) and photo**
16:45 - 17:45	**Poster session**
19:30 - 22:00	**Conference diner**
	Poster award

Wednesday 17/06	
8:30 - 9:00	**Registration for prepaid participants**
9:00 - 10:10 Plenary 8	**Novel dosimetry for the clinic today and for the emerging irradiation modalities of tomorrow** *Chairs: Yves De Deene and Anne-Marie Frelin*
9:00 - 9:30	(Invited) Filip Hörberger: A scintillator-based approach to spatial and temporal dosimetry in UHDR electron irradiation
9:30 - 9:50	Thibault Bernelin: Monte-Carlo simulations of Cherenkov Fluence for FLASH radiotherapy dosimetry
9:50 - 10:10	Cloé Giguère: Comparison of radiation damage effects in plastic scintillators after ultra-high dose rate irradiations of 9-MeV electrons, 200-MeV electrons, and 87-MeV protons
10:10 - 10:40	**Coffee break**
10:40 - 11:40 Plenary 9	**Towards other modalities and other quantities** *Chairs: Sam Beddar and Marc Rousseau*
10:40 - 11:00	Marc-Antoine Leclerc: Quantification of Internal Radioactivity to Measure the Arterial Input Function In Dynamic Positron Emission Tomography: A Simulation Study
11:00 - 11:20	Simon Lechien: 3D dosimetry to assess potential side effects after an extravasation of ^{177}Lu-DOTATATE
11:20 - 11:40	Etienne Testa: Development of the analytical model RAMBI for cell irradiation lines with ion beams
11:40 - 12:30	**(Closing adress) Samuel Valable: Title to come**
12:30 - 14:00	**Lunch** *Oral presentation award*
14:00 - 15:10 Plenary 10	**Novel dosimetry for the clinic today and for the emerging irradiation modalities of tomorrow** *Chairs: Simon Doran and Geoffrey Ibbott*
14:00 - 14:30	(Invited) Karolin Milewski: High-resolution 3D dosimetry for carbon ion beam therapy with nanoclay Fricke gels
14:30 - 14:50	Patrick Pittet: Development of double-clad Qdot-based microstrip detector for Spatially Fractionated Radiotherapy dosimetry
14:50 - 15:10	Justus Adamson: Dosimetric Impact of Magnetic Actuation Systems for Bowel Displacement in Abdominal SBRT
15:10 - 15:25	**Closing session**
	Farewell from the organizers
15:25 - 18:00	**Coffee break + Farewell**
	Optional free visit of the museum

Poster presentations	
P1	Marek Kozicki: Impact of photon beam quality on the radiation response of Fricke-XO-Gelatin with sorbitol
P2	Marek Kozicki: CT-Based Dose Measurement with an Enhanced Bone-Mimicking 3D Dosimeter
P3	Marek Kozicki: Optimization of CBCT Imaging Parameters for Isocenter Verification on an Elekta System Using 3D Polymer Gel Dosimetry
P4	Alexander Skjødt: Fast scanner for two-dimensional dose mapping based on optically stimulated luminescence films
P5	Flavia Franco: Development and implementation of a GRID irradiation system for in vitro and small animal studies
P6	Patrick Pittet: Characterization study of 20 µm and 60 µm wide BC 408 microstrips during microbeam X-ray irradiation
P7	María de los Ángeles García-Santiago: Comparison between X-ray and Optical tomography scanner as 3D polymer gel dosimetry readout methods for patient-specific quality assurance in Spatially
P8	Malek OULD MOHAND: Development of an Optical Readout System Based on Light Scattering Applied to Dosimetric Gels
P9	Mohamed Belgaid: BNCT dosimetry based on the nuclear research reactor for brain cancer and the MIRD phantom by lens introduction