

3Ddose

Québec - 2022

JUNE 19-22 2022

Québec City, Canada

19 au 22

JUIN 2022

Ville de Québec, Canada

QUÉBEC  
VOTRE  
VILLE

DESTINATION  
AFFAIRES



Photo : Québec, François Gamache

Detailed Program of the  
**12th INTERNATIONAL CONFERENCE ON 3D  
and ADVANCED DOSIMETRY (IC3Ddose)**  
June 2022, Château Frontenac, Quebec City.

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Welcome to the 12th edition of the DosGel/IC3Ddose biennial gathering of scientists on the topic of advanced dose measurements, including 3D and 4D dose imaging. This meeting is a unique opportunity for everyone interested in these topics, including graduate students and medical physics residents, to have one-on-one exchanges with the world-leading experts in the field. In addition to regular contributed talks, vendor exhibit, and a poster session, the 2022 edition will feature over a dozen refresher courses, a Rising Star oral talk competition as well as panel discussions and debates.

Topics (but not limited to)

- 3D and 4D dosimetry;
- GEL dosimetry;
- Film dosimetry;
- EPID dosimetry;
- Scintillation and Cherenkov;
- End-to-end QA;
- Dosimetry in extreme conditions:
  - Small field;
  - MR-Linac;
  - FLASH.

You will find last year's presentations here: <https://youtube.com/playlist?list=PL0wwIxJBoN1AiczRciTFBO-wFA28zv1Ku>

## Organizing committee

|  |                                  |
|--|----------------------------------|
| Louis Archambault (ULaval, Canada)     | Luc Beaulieu (ULaval, Canada)    |
| Kevin Jordan (Western Ontario, Canada) | Andrew Jirasek (UBC-O, Canada)   |
| Boyd McCurdy (UManitoba, Canada)       | John Schreiner (Queen's, Canada) |

## International Committee

|                                 |   |
|---------------------------------|---|
| Sven Bäck (Skane, Sweden)       | Clive Baldock (Western Sydney, Australia) |
| Peter Balling (Aarhus, Denmark) | Sam Beddar (MD Anderson, USA)             |
| Sofie Ceberg (Lund, Sweden)     | Yves De Deene (Macquarie, Australia)      |
| Simon Doran (ICR, UK)           | Geoffrey Ibbott (Vermont, USA)            |
| Mark Oldham (Duke, USA)         |   |

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# AT A GLANCE

| See detailed program for accurate session times |                          |   |   |  |  |              |
|---|--------------------------|---|---|--|--|--------------|
| Time  | Sunday June 19th         | Monday June 20th  | Tuesday June 21st                               | Wednesday June 22nd  | Thursday June 23rd   |              |
| 08:30 - 09:10                                   |                          | On-site registration / Badge pickup<br><b>09:00 Opening</b> | On-site registration / Badge pickup             | On-site registration / Badge pickup / COMP pre-meeting day | <b>COMP Panel (in COMP meeting room): FLASH in Radiotherapy - Mechanisms, Technology, Dosimetry and Delivery</b> |              |
| 09:10 - 09:30                                   |                          | Invited talks   | Invited talks                                   | Invited talks  |  |              |
| 09:30 - 10:30                                   |                          |   |   |  |  | Invited talk |
| 10:30 - 10:50                                   |                          | <b>Pause santé / Health Break / Exhibit</b>                 |   |  |  |              |
| 10h50-11h30                                     |                          |   |   |  |  | Invited talk |
| 11:30 - 12:00                                   |                          | Proffered session   | Proffered session                               | Proffered session  | vendor talks, Awards, future meetings  |              |
| 12:00 - 13:00                                   |                          | Lunch and exhibit   |   | Lunch and exhibit  | Lunch  |              |
| 13:00 - 14:20                                   |                          | <b>Rising Stars Competition</b>                             | Free to roam the old City and enjoy a terrasse! | <b>Dosimetry in Extreme Conditions</b>                     | <b>COMP Young Investigators Symposium: IC3Ddose participants invited!</b>  |              |
| 14:25 - 15:15                                   |                          |   |   |  |  |              |
| 15:15 - 15:35                                   |                          | <b>Pause santé / Health Break</b>                           |   | <b>Pause santé / Health Break</b>                          |  |              |
| 15:35 - 16:15                                   |                          | Invited talk  | Invited talk and Proffered (start at 15h20)     | <b>Dosimetry in Extreme Conditions (cont...)</b>           |  |              |
| 16:15-17:00                                     |                          | <b>Meet the Speakers / Posters of the day</b>               |   | <b>Meet the Speakers / Poster Session</b>                  |  |              |
| 17:00 - 17:30                                   | Welcome Registration     | <b>Virtual session</b>                                      | <b>Meet the Speakers / Posters of the day</b>   |  |  |              |
| 17:30 - 18:00                                   |                          |   |   | <b>Joint IC3Ddose-COMP Keynote - by Dr John Schreiner</b>  |  |              |
| 18h30-  |                          |   |   |  |  |              |
| <b>Evening</b>                                  | Free to explore the city | Free to explore the city                                    | TBD   | Joint Social / Exhibit                                     |  |              |

## DAY 2 – JUNE 21st

|             |   |  |   |
|-------------|---|--|---|
| 8h40        | <b>On Site Registration / Badge pickup</b>  |  |   |
| 9h10-10h30  | <b>Refresher #3</b><br>Chair: Luc Beaulieu  |  |   |
| 9h10-9h50   | IS  | <b>Rongxiao Zhang</b><br>Dartmouth University  | Cherenkov dosimetry   |
| 9h50-10h30  | IS  | <b>Sam Beddar</b><br>University of Texas, MD<br>Anderson Cancer Center,<br>USA   | Scintillation dosimetry   |
| 10h30-10h50 | <b>Health Break</b>   |  |   |
| 10h50-12h00 | <b>Proffered session #2 and Vendor's talk #1</b><br>Chairs : Shirin A. Enger and Rongxiao Zhang |  |   |
| 10h50-11h05 | CT  | <b>Camilla L Nielsen, Rosana M Turtos, Brian Julsgaard, Ludvig P Muren and Peter Balling</b><br>Aarhus University, Denmark   | Optimizing the transparency of nano-LiF:Cu/silicone nanocomposites for 3D optically stimulated luminescence dosimetry   |
| 11h05-11h20 | CT  | <b>Daphnée Bernier-Marceau, É. Cloutier, M. Yeh, G. D Orebi Gann and L. Beaulieu</b><br>Université Laval, Canada   | Characterization of a water-based liquid scintillator for use in megavoltage radiotherapy beams                         |
| 11h20-11h35 | CT  | <b>Jacob S. Nyemann, Mads L. Jensen, Lia B. Valdetaro, Morten B. Jensen, Rosana M. Turtos, Brian Julsgaard, Jørgen B. B. Petersen, Ludvig P. Muren and Peter Balling</b><br>Aarhus University, Denmark | Proof-of-concept photon and proton measurements for large-area 2D dosimeters based on optically stimulated luminescence |
| 11h40-11h50 | CT  | <b>François Therriault-Proulx, PhD</b><br>CEO and co-founder<br>MedScint Inc.  | Vendor's talk   |
| 12h00-15h00 | <b>LUNCH ON YOUR OWN – ENJOY A TERASSE!</b>   |  |   |
| 15h20-17h00 | <b>Refresher #4 and Proffered #3</b><br>Chair: Peter Balling                                    |  |   |
| 15h20-16h00 | IS  | <b>Michelle Hilts</b><br>UBC-Okanagan, Canada  | CT and CBCT imaging of gel dosimeters: a review of the state of the art   |
| 16h00-16h40 | IS  | <b>Boyd McCurdy</b><br>CancerCare Manitoba,<br>Canada  | EPID exit dosimetry and 3D dose reconstruction - New developments and applications                                      |

|             |   |  |  |
|-------------|---|--|--|
| 16h40-16h55 | IS  | <b>Olivia Moluchi, Matt Mulligan and Kevin Jordan</b><br>London Regional Cancer Center, Canada | Bare spherical gel dosimeter with optical computed tomography scanning |
| 17h00-18h00 | <b>Meet the speakers / posters of the day (Beer included!)</b><br>The five proffered papers will be available at the poster boards to discuss their works. Slides presented will be displayed on the poster boards. |  |  |

18h00: **DAY 2 CLOSED - Informal get together possible**

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