

## Conférence scientifique de l'AQPMC

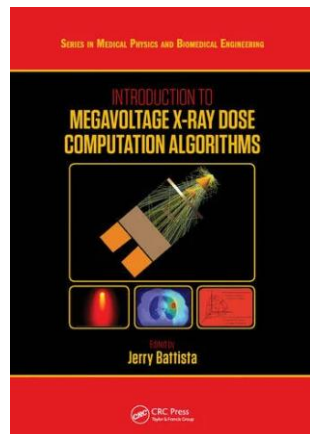
When: February 20, 2024, 12pm - 1pm.

Where : Zoom webinar<sup>1</sup>

# Evolution of Dose Computation Algorithms for Megavoltage X-Ray Therapy

Dr. Jerry Battista

During this talk, Dr. Battista will highlight the concepts behind modern dose calculation algorithms, as published in a recent book: [Introduction to Megavoltage X-Ray Dose Computation Algorithms](#) . In addition, conference attendees will have the chance to win a copy of the book signed by Dr. Battista.



## Biography:



Dr. Battista obtained his Ph.D. at the University of Toronto on the subject of “Compton Scatter Tomography”. He then gained clinical physics experience at Princess Margaret Hospital, under mentorship of Dr. “Jack” Cunningham – a pioneer in radiation dosimetry applied to cancer treatment planning.

In 1979, Jerry relocated to the Cross Cancer Institute in Edmonton. His research team implemented one of the first “3D”

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<sup>1</sup> The webinar link will be communicated to members a few weeks before the conference.

treatment planning systems and his student (TR Mackie) introduced “convolution” algorithms for dose modelling of higher energy x-ray beams.

In 1988, he became Director of Physics Research at the London Regional Cancer Centre. He also served as Head of the Division of Radiation Oncology and Chair of Medical Biophysics at Western. He has published over 130 peer-reviewed articles, book chapters, patents and secured major grants supporting research and education projects (e.g., DeskCAT scanner).

Dr. Battista was provincial coordinator of the clinical physics training program of Ontario for several decades and he continues to develop national guidelines for medical physics staffing in radiation oncology. Jerry received the Kirkby Award from the Canadian Association of Physicists (CAP), Gold Medal from the Canadian Organization of Medical Physicists (COMP) and is Fellow of the AAPM for his lifetime achievements in research and education. His publications with students have won international awards from COMP, AAPM, and ACPSEM.