

Greg Salomons

Curriculum Vitae

A. Personal Information

Work Address: *Dept. of Medical Physics
Cancer Centre of South Eastern Ontario at Kingston General Hospital
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B. Education & Awards

Degree / Title	Institution and Location	Field	Supervisor (External Examiner)	Year
MCCPM	Canadian College of Physics in Medicine	Radiation Therapy		June 2005
Review A	Kingston Regional Cancer centre	Radiation Therapy Physics		May 2002
Medical Physics Residency Training	Kingston Regional Cancer centre	Radiation Therapy Physics	Dr. Andrew Kerr	August 1999 – May 2002
Post Doctorate Fellowship	Kingston Regional Cancer Centre	Medical Physics	John Schreiner	April 1998 – August 1999
Post Doctorate Fellowship	Queen's University Kingston, ON	Physics	M.A. Singh	Feb 1998 – Mar 1998
Ph.D.	Queen's University Kingston, ON	Physics	M.A. Singh (D.I. Svergun)	Sept 1993 – Feb 1998
M.Sc.	Queen's University Kingston, ON	Physics	J.P. Harrison	1991
B.Sc.	University of Alberta Edmonton, AB	Physics		1989

C. Work Experience

June 2002 – present	Cancer Centre of Southeastern Ontario at Kingston General Hospital
	Medical Physicist: Clinical physics and dosimetry work. Supervise Co-op students working on gel dosimetry and cobalt tomotherapy research
Aug 1999 – May 2002	Kingston Regional Cancer Centre
	Medical Physics Resident: Clinical training for medical physics position. Supervised Co-op students working on gel dosimetry and cobalt tomotherapy research
Apr 1998 – Aug 1999	Kingston Regional Cancer Centre
	Post Doctorate Fellow: Performed feasibility studies on cobalt tomotherapy and established facilities to study polymer gel dosimeters
Feb 1998 – Mar 1998	Queen's University
	Research Assistant Completed papers covering some aspects of my PhD
Sept 1998 – Sept 1993	Queen's University
	Teaching Assistant and Research Assistant
Sept 1991 – Apr 1993	Malawi Africa
	Development Worker: Oversaw a cottage industry training program
Sept 1989 – Aug 1991	Queen's University
	Teaching Assistant and Research Assistant

D. University, Cancer Clinic and Hospital Appointments:

University or Hospital	Position	Date
Cancer Centre of Southeastern Ontario	Medical Physicist	June 2002
Queen's University Department of Oncology	Associate Professor	July 2003
Queen's University Department of Physics	Associate Professor	March 2009

E. Students Supervised

Name	Job Title	Location	Year
Thomas Bulenga	Phd Student	Queen's University	2020-present
Noor Oada	Undergraduate Thesis Project	Queen's University	2020-2021
Thomas Bulenga	MSc Student	Queen's University	2016-2019
Chris Jechel	MSc Student	Queen's University	2012-2016
Che-Wei Chang	Undergraduate Computing Project	Queen's University	2015

Tommy Wei	Undergraduate Thesis Project	Queen's University	2014-2015
Rod Parsa	Undergraduate Thesis Project	Queen's University	2014-2015
Matti Keskkilya	Undergraduate Thesis Project	Queen's University	2013-2014
Robert Kallin	Undergraduate Thesis Project	Queen's University	2013-2014
Mary Aube	Undergraduate Thesis Project	Queen's University	2013-2014
Chris Jechel	Physics Graduate Student	Queen's University	2011-2014
Kevin Alexander	Physics Graduate Student	Queen's University	2011-2013
Amanda McCoubrey	Undergraduate Thesis Project	Queen's University	2012-2013
Edward Percy	Undergraduate Thesis Project	Queen's University	2011-2012
Joel Mullins	Summer Student	Cancer Centre of Southeastern Ontario	2011
Chris Jechel	Harold Johns Summer Student	Cancer Centre of Southeastern Ontario	2011
Junaid Youssef	Radiation Oncology Resident	Cancer Centre of Southeastern Ontario	2010, 2011
Darwin Yip	Radiation Oncology Resident	Cancer Centre of Southeastern Ontario	2009 - 2012
Robyn Quirt	Summer Student	Kingston Regional Cancer Centre Kingston, ON	2010
Teri Stuckless	Radiation Oncology Resident	Cancer Centre of Southeastern Ontario	2004
David Owen	Co-op Student	Cancer Centre of Southeastern Ontario	2004
Danitra Maharaj	Radiation Therapy Student	Cancer Centre of Southeastern Ontario	2003, 2004
Greg Carnes	Summer Student	Kingston Regional Cancer Centre Kingston, ON	2003, 2004
Christine Dyck	Co-op Student	Cancer Centre of Southeastern Ontario Kingston, ON	2002, 2003
Mike Oliver	Summer Student	Kingston Regional Cancer Centre Kingston, ON	2002

Anil Thomas	Co-op Student	Kingston Regional Cancer Centre Kingston, ON	2000
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F. Committee Memberships

Committee Name	Date Joined	Duties
CCO IMRT QA Advisory Committee	Nov 2010 to Dec 2020	Part of a panel of regional advisors to CCO IMRT QA program
Cancer Care Ontario Medical Physics Communities of Practice	Nov 2013 to Aug 2021	Co-Chair of Planning Review project group
Cancer Care Ontario Medical Physics Communities of Practice	June 2018 to April 2020	Chart Checking Quality Metrics Working Group
Radiation Therapy IT Support Team	Jan 2021	Team Lead

G. Grants and Other Funding Obtained

Title	Investigator(s)	Funding Agency	Amount	Year
Advancing gel dosimetry for clinical radiation therapy	L.J. Schreiner, L.J. Darko, J. Kerr, A. T. McAuley, K. Salomons, G.J.	Canadian Institutes for Health Research	\$91,768	2012 - 2016
Advancing gel dosimetry for clinical radiation therapy	L.J. Schreiner, L.J. McAuley, K. Salomons, G.J. Darko, J.	Canadian Institutes for Health Research (bridge funding)	\$60,388	2011
Improved polymer gel dosimetry for clinical radiation therapy.	L.J. Schreiner, L.J. McAuley, K. Salomons, G.J. Darko, J.	Canadian Institutes for Health Research	\$214,500	2007-2010
Adaptive radiation therapy by cobalt-60 tomotherapy: Dose delivery studies	Schreiner, L. J. Kerr, A. T. Salomons, G. J. Mackillop, W. J. Brundage, M. D.	Canadian Institutes for Health Research	\$220,404	2004-2007
Gel Dosimetry from Lab to Clinic	John Schreiner Greg Salomons Giles Santyr	Cancer Care Ontario / Theratronics Physics Research Initiative	\$13,500	2003-2004

A treatment planning system for Co-60 tomotherapy	Greg Salomons	Dering Cancer Research Funds	\$8,670	2002-2003
Development of a Detector Array for CT Imaging in Cobalt Tomotherapy	A. Kerr (PI), L.J. Schreiner, G. Salomons	Cancer Care Ontario / MDS Nordion Physics Research Initiative	\$ 14, 300	2002
Development of an Automated 1st generation Cobalt-60 Tomotherapy Unit	L.J. Schreiner (PI) A. Kerr J. Robins G. Salomons	Cancer Care Ontario / Theratronics Physics Research Initiative	\$ 24, 000	1999 – 2000

H. Membership in Professional Organizations

Society Name	Date Joined
Canadian College of Physics in Medicine	June 2005
American Association of Physics in Medicine	Feb 2003
Canadian Organization of Medical Physicists	June 1998

I. Clinical Accomplishments

- 2022 Created a software tool to help diagnose and fix diagnostic image sets that do not import correctly into Eclipse do to errors in their metadata
- 2022 Designed and implemented a custom PC configuration group e-mails for the therapist at the treatment units that satisfy their workflow requirements and also meet the hospital's IT security requirements.
- 2022 Provided advice on PC hardware purchases and requirements including the purchase of drawing-monitors for the residents to use for contouring and to replace some of the outdated drawing-monitors used by the radiation oncologists.
- 2022 Providing support and training on software tools such as a secure password manager.
- 2021 At their request, I provided medical physicists at other centers with advice on management practices, and collections of personally constructed documentation related to our treatment planning system (TPS) and the recent upgrade
- 2021 Coordinated and participated in the initial review, training and evaluation of new tools and features available after the recent TPS software upgrade as well as potential new or upgraded software that complements our TPS. These include Auto-contouring tools, image registration tools, and a new optimization algorithm.
- 2021 Initiated multi-year project to re-structure file usage and storage in the Radiation Therapy department to better comply with best-practices regarding security and patient privacy.

- 2021 Initiated discussions to formalize the role of Medical Physics in hospital Information Management (IM) activities and decision making.
- 2021 Continued to actively assist IM in diagnosing and resolving issues encountered in the Radiation Therapy department and in advising on hardware purchases.
- 2021 Resumed work on plan evaluation tools project. Additional tools developed this year include a program used to assess, contour volumes and another used to check electron insert shapes.
- 2020 Project lead for a major TPS software upgrade
- 2020 Coordinated commissioning work required for the TPS upgrade
- 2020 Coordinated PC replacements and upgrade to meet upgraded TPS specs.
- 2020 Assisted KGH IT in diagnosing and resolving computer related issues encountered in the Radiation Therapy department.
- 2019 Continued work on plan evaluation tools project. The project goal is to track and automate some of the physics plan checking tasks.
- 2019 Development QA policies
- 2019 TPS and ARIA Troubleshooting and maintenance
- 2019 Commissioning and testing of TrueBeam electron fields in Eclipse and ARIA
- 2019 Commissioning new version of IMSure secondary MU calculations software.
- 2019 Commissioning 10X photons.
- 2019 Initial planning for TPS software upgrade.
- 2019 New “How-To” documents related to ARIA and Eclipse processes.
- 2019 Update patient data anonymization process for clinical trials
- 2019 Evaluate new software packages, including new HIS.
- 2019 Initial work on plan evaluation tools. (ongoing)
- 2019 Implement version control system for key clinical data such as policies and procedures.
- 2019 Draft new policy for Virt. SIM planning.
- 2019 Develop tables of PC hardware and software requirements for Radiation Oncology Division.
- 2018 Development QA policies
- 2018 New diagnostic imaging import process for dosimetry
- 2018 New patient data anonymization process for clinical trials
- 2018 New software to assist dosimetrists in generating SABR Plan Reports
- 2018 Maintenance of MU calculation software
- 2018 Commissioning and testing of Eclipse and ARIA for two new Truebeam linacs and software upgrade for a third linac.
- 2018 Initial Commissioning and testing of TrueBeam electron fields in Eclipse and ARIA (on-going)
- 2018 TPS and ARIA Troubleshooting and maintenance
- 2018 Planning and review for Varian Software Support Agreement.

- 2018 Contributed to CCO Best Practice Plan Check Quality Metrics Working Group
- 2018 Coordinate KGH IT work related to Radiation Therapy, including:
Desktop upgrade requirements and process,
Security issues related to legacy Windows XP systems,
Migration of clinical software to Citrix
- 2017 Project manager for major upgrade of treatment planning system and commissioning work for new TrueBeam linac
- 2017 Develop policy for performing and testing changes to the Radiation Oncology Treatment Planning system that are perceived to be "Low Risk"
- 2017 Provide recommendations to change our purchase and implementation strategy based on my evaluation of differences between the electron treatment beams generated by our newest treatment machine and those generated by our older machines. My recommendations were followed.
- 2017 Investigated possible causes of the variations in physics plan checking practices across Ontario
- 2017 Develop MatLab software to compare dose distributions generated by the Treatment Planning System with measured data.
- 2017 Worked on two new project proposals for the Physics Medical Physics Communities of Practice
- 2010-2018 Member of the Advisory Committee for the province-wide IMRT QA project
- 2016 Wrote and implemented spreadsheet for manual calculations of simple palliative treatments.
- 2016 Initial work to prepare for major upgrade of treatment planning system.
- 2016 Submitted report to CCO on results of survey of medical physics plan checking process across Ontario.
- 2014 – 2015 Member of CCO Treatment Planning Systems evaluation team
- 2015 Oversaw installation of a test system in preparation for an upgrade to a new major release of treatment planning system software some time in 2016
- 2015 Significant update and re-work of several annual linac QA policies to reflect new equipment and comply with new published guidelines.
- 2014 Advised on purchase of new QA equipment
- 2014 Commissioning of Treatment Planning System for new linac including new 10 MV energy and new algorithm
- 2014 Work on new QA tests for treatment planning system
- 2014 Oversaw hardware upgrade for treatment planning system and Radiation Oncology Information System
- 2014 Commissioning work in treatment planning system for new energy and new calculation algorithm resulting from installation of a new linac
- 2014 Evaluation of new major release of treatment planning system software. Resulted in decision to forgo the version 11 release and wait for the version 13 release expected in early 2015

- 2013 Took the lead role in the installation of new hardware and software purchased in 2012.
- 2013 Took the lead role in commissioning treatment planning algorithm upgrades and new dose calculation tools accompanying these upgrades.
- 2013 Took over as chair of the joint Medical Dosimetry Medical Physics bi-weekly meetings
- 2009-2013 Chair of radiation oncology skin site group. Duties included implementing the clinical use of an electron Monte Carlo treatment planning algorithm for skin treatments and roll-out of orthovoltage treatments.
- 2012 Lead physicist overseeing commissioning of new algorithm for the treatment planning system
- 2012 Lead physicist overseeing purchase of software and hardware upgrades for the treatment planning system, to be installed in 2013
- 2012 Introduced control chart reporting of health & safety indicators for the joint occupational health & safety committee
- 2009-2012 Union representative on the joint occupational health & safety committee. Duties included annual inspections and worker representative for the evaluation of health & safety concerns raised by staff.
- 2011 Lead physicist overseeing a major upgrade to the treatment planning system
- 2008-2010 Assisted in clinical implementation of the new high dose rate brachytherapy system. Tasks included developing checking protocols and spreadsheets for brachytherapy plans and protocols for checking dose rate calibration after source replacement
- 2008-2009 Commissioning the electron Monte Carlo algorithm in the Eclipse treatment planning system
- 2007-2008 Assisted in commissioning the treatment planning algorithms for the Eclipse treatment planning system
- 2006 Initially responsible for commissioning the new planning system. This work was cut short by a motor vehicle accident which required an extended medical leave of absence.
- 2005-2006 The lead person at the cancer centre in the selection of the new treatment planning system.
- 2004-2006 Member of radiation oncology technical implementation group
- 2003-2006 Resource physicist for dosimetry
- 2003-2006 Physics representative on the radiation oncology GU site group committee. Contributions to this committee included providing evidence based guidelines for DVH limits and contouring guidelines
- 2002-2006 Union representative on joint occupational health & safety committee. Duties included annual inspections and worker representative for the evaluation of health & safety concerns raised by staff.
- 2004-2005 Supervised the commissioning of a 6MV linac,
- 2004 Developed site specific checklists for reviewing treatment plans

- 2003 Participated in committee to select a new dosimetrist. This included designing and marking a test of the applicants' dosimetry knowledge and skill.

J. Teaching Accomplishments

- 2021 Introduced new topic for Radiation Oncology Residents on treatment planning for sarcomas
- 2021 Converted teaching module on Professional Practice for Medical Physics Residents into an on-line format to deal with COVID-19 restrictions.
- 2019 Created new teaching module on Professional Practice for Medical Physics Residents.
- 2019 Taught and expanded Ethics Seminar series for Medical Physics Residents.
- 2019 Taught and administered Phys 495 introduction to medical physics
- 2018 Updated learning Module for Medical Physics Residents on Information Technology basics.
- 2018 Taught and expanded Ethics Seminar series for Medical Physics Residents.
- 2018 Created new learning Module for Medical Physics Residents on Information Technology basics.
- 2018 Provided CME session on Medical Physics plan checking.
- 2018 Provided updated seminars on electron planning for RO residents.
- 2017 Taught and administered Phys 495 introduction to medical physics
- 2017 Provided several CME sessions on the changes in the new version of the treatment planning system
- 2016 Moderator and organizer for AAPM SAMS education session on Treatment Planning System Commissioning and Quality Assurance. (Invited to present a follow-up session to previous year's presentation)
- 2015 Taught and administered Phys 495 introduction to medical physics
- 2015 Taught Ethics and Errors course for 2 medical physics residents
- 2015 Moderator and organizer for AAPM SAMS education session on Treatment Planning System Commissioning and Quality Assurance
- 2014 Supervised two students in undergraduate thesis projects. Made arrangements with Computer Science department to co-supervise some of their thesis projects in the coming year
- 2014 Created new Ethics and Errors course for medical physics residents; a requirement for our CAMPEP accreditation
- 2013 Coordinated the graduate level introduction to medical physics course. Revised the teaching format for this course based on feedback from previous years.

- 2013 Coordinated the undergraduate introduction to medical physics course and introduced an updated curriculum to this course based on feedback from previous years.
- 2013 Supervised three students in undergraduate thesis projects. Assumed role in coordination of graduate course advanced topics in medical physics after previous coordinator left.
- 2012 Coordinated the graduate level introduction to medical physics course. Introduced new curriculum and lab project.
- 2011 Coordinated the undergraduate medical physics course. Gave 9 lectures for the course. Developed and implemented a quiz based teaching style adopted by one other lecturer and a poster based seminar session. Organized a “debriefing” session for the other lecturers in the course to go over student evaluations, exam results and plans to improve the course for next time in 2013.
- 2011 Coordinated the graduate level introduction to medical physics course. Introduced new seminar/presentation based method for teaching the course which was adopted by all of the other professors. The students in the course were evaluated entirely based on their performance in the seminars and presentations.
- 2011 Gave 3 lectures top RO residents on Electron treatment and orthovoltage treatments
- 2010 Attended seminars, reviewed videotape of my teaching and met with a consultant to work on improving the undergraduate medical physics course. Made major revisions to syllabus, designed a course website on Moodle and introduced an interactive quiz based teaching style that was adopted by myself and Dr. Kerr.
- 2010 Assisted with advanced topics in medical physics graduate seminar course leading 4 of the seminar sessions
- 2009 8 lectures for undergraduate introduction to medical physics course (held on alternate years)
- 2006 5 lectures for graduate introduction to medical physics course, created mock linac calibration lab for course, introduced a set of student presentations on radiobiology
- 2005 2 months (8 sessions) teaching for radiation oncology residents
- 2004 6 lectures for graduate introduction to medical physics course
- 2004 4 teaching modules for a new dosimetrist
- 2002 4 teaching modules for a new dosimetrist
- 2002 3 lectures for graduate introduction to medical physics course
- 2000-2002 Produced an extensive set of study notes for both the Review A and CCPM that are still being used by Medical Physics Residents in Kinston almost 10 years after they were produced.
- 2001 Produced 3 labs and one tutorial for use in training Radiation Therapist students
- 2001 Produces a CT imaging & reconstruction lab for the graduate introduction to medical physics course. This lab has now been incorporated into the 4th year undergraduate laboratory course

2000 Created several assignments and contributed exam questions for graduate introduction to medical physics course

K. Publications and Presentations

A. SUMMARY OF PUBLICATIONS

Refereed publications, published or in press	18
Book chapters and conference proceedings, published or in press.....	27
Invited Presentations and departmental seminars	29
Abstracts Published	40
Oral Presentations at Scientific Conferences	26
Poster Presentations and Exhibits to Research Conferences	49

B. List of Publications

Refereed Papers, published or in press

1. Salomons, G.; Nakonechny, K.; Neath, C.; Chin, L.; Keller, H.; Chan, G. H. **Medical Physics External Beam Plan Review: What Contributes to the Variability?** *Physica medica* **89**, 293–302, 2021.
2. Jina Zhang-Salomons, Greg Salomons **Determine the therapeutic role of radiotherapy in administrative data: a data mining approach** *BMC Medical Research Methodology* **15**, 1-9 2015
3. G. J. Salomons, D. Kelly. **A survey of Canadian medical physicists: software quality assurance of in-house** *Journal of Applied Clinical Medical Physics* **16**, 336-348, 2015
4. G. J. Salomons, D. Kelly. **Software safety in radiation therapy** *Journal of Medical Physics* **38**, 1-3, 2013
5. L. J. Schreiner, C. P. Joshi, J. Darko, A. T. Kerr, G.J. Salomons, S. Dhanesar. **The role of Cobalt-60 in modern radiation therapy: Dose delivery and image guidance** *Journal of Medical Physics* **34**,133-136, 2009
6. G. J. Salomons, A. T. Kerr, X. Mei, D. Patel. **The accuracy of MU calculations for dynamic wedge with the Varian's Anisotropic Analytical Algorithm** *Medical Physics* **35**, 4289-4291, 2008
7. L. J. Schreiner, M. V. Rogers, G. J. Salomons and A. T. Kerr. **Metal Artifact Suppression in Megavoltage Computed Tomography.** in *Medical Imaging 2005: Physics of Medical Imaging* , M.J. Flynn (ed), *Proc. of SPIE: 5745*, 637 - 645, (International Society for Optical Engineering, Bellingham, WA, 2005).

8. M. Rogers, A. Kerr, G. Salomons and L.J. Schreiner. **Quantitative Investigations of Megavoltage Computed Tomography.** in *Medical Imaging 2005: Physics of Medical Imaging*, M.J. Flynn (ed), *Proc. of SPIE*: **5745**, 685 - 694, (International Society for Optical Engineering, Bellingham, WA, 2005).
9. Greg J. Salomons, Yong S. Park, Kim B. McAuley and L. John Schreiner. **Temperature Increases Associated with Polymerization of Irradiated PAG Dosimeters.** *Physics in Medicine & Biology* **47**, 1435–1448, 2002
10. G.J. Salomons, M.A. Singh, T. Bardouille, W.A. Foran, and M.S. Capel. **Small-Angle X-ray Scattering Study of Craze Formation and Dynamics in Thermoplastics** *Macromolecules*, **32**, 1264–1270, 1999
11. G.J. Salomons, M.A. Singh, T. Bardouille, W.A. Foran, M.S. Capel **Small-Angle X-ray Scattering Analysis of Craze Fibril Structures.** *Journal of Applied Crystallography*, **32**, 71–81, 1999
12. J.A. Gupta, M.A. Singh, G.J. Salomons, W.A. Foran, and M.S. Capel. Small-Angle X-ray Scattering Study of the Microphase Separation Transition in Diblock Copolymers: A Model `B' Kinetic Phenomenon *Macromolecules*, **31**, 3109–3115, 1998
13. L.H. Pan, M.A. Singh, G.J. Salomons, J.A. Gupta, and M.S. Capel **Strain energy effects on the ordering process in diblock styrene-butadiene copolymer J.** *Macromolecular Science - Physics*, **B36** 137–151, 1997
14. G.J. Salomons, M.A. Singh, J.A. Gupta, W.A. Foran, J.R. Clarke, and M.S. Capel. **Apparatus for Small-Angle X-Ray Scattering Measurements of Polymer Deformation.** *Review of Scientific Instruments* **67**, 1748–1752, 1996
15. L.H. Pan, M.A. Singh, G.J. Salomons, J.A. Gupta, and M.S. Capel **Finite Impurity Size Effects on Heterogeneous Nucleation Occurring in Diblock Copolymers J.** *Macromolecular Science - Physics*, **B35** 749–761, 1996
16. J.P. Harrison, M Kohl, and G.J. Salomons. **Flux pinning in silver-doped YBCO** *Cryogenics*, **33** 510–513, 1993
17. J.P. Franck, J. Jung, G.J. Salomons, W.A. Miner, M.A. Mohamed, J. Chrzanowski, S. Gyax, J.C. Irwin, D.F. Mitchell, and G.I. Sproule. **The Oxygen Isotope Effect in Superconducting $Y_1Ba_2Cu_3O_{7-x}$.** *Physica C*, **172** 90–104, 1990
18. R. Henderson, R. Openshaw, W. Faszler, M. Salomon, G.J. Salomons, and G. Sheffer. **Wire Chamber Ageing with CF_4 /Isobutane and Argon/Ethane Mixtures.** *IEEE Transactions in Nuclear Science* **35** 477–482, 1988

Book chapters and conference proceedings, published or in press

1. H. Keller A. Rink,, G. Salomons, G. Salomons et al., **Best-Practice Guidelines for Radiation Treatment Plan Physics Review: A report on the results of a survey conducted by the Medical Physics Community of Practice (CoP) Chart Checking Practices Working Group.** Toronto, ON: Cancer Care Ontario.
2. Sedghi A, Salomons G, Jutras J-D, et al. **Image registration with deep probabilistic classifiers: application in radiation therapy**, Med. Imaging 2020 Image-Guided Proced. Robot. Interv. Model., 61–66 (SPIE, Houston, Texas, 2020)
3. C Jechel, T Bulenga, C Joshi, G Salomons and LJ Schreiner. **Characterization of a Cobalt-60 radiotherapy unit upgrade: BEST Theratronics T780C to Equinox100.** ICARO2, Book of Synopsi,72-73, (IAEA, Vienna, 2017)
4. G. Salomons, et al., **Current practices of medical physics external beam plan checking: A report on the results of a survey conducted by the Medical Physics Community of Practice (CoP) Chart Checking Practices Working Group.** Toronto, ON: Cancer Care Ontario.
5. G. Salomons, **A knowledge-based approach to guidelines**, SCOPE Sept 2015, 24-29 (2015). (Invited article)
6. G. Salomons, **Treatment Planning System Commissioning and QA: Challenges and Opportunities**, Proceedings of the 57th Annual Scientific Meeting, (AAPM, Anaheim, CA, 2015).
7. L J Schreiner, O Holmes and G Salomons. **Analysis and evaluation of planned and delivered dose distributions: practical concerns with γ - and χ - Evaluations** *J. Phys.: Conf. Ser.* **444** 012016 (2013). (Invited article)
8. K Alexander, E Percy, T Olding, LJ Schreiner and G Salomons **Characterization of a camera and LED lightbox imaging system for radiochromic film dosimetry**, *Medical physics* 39.7 (2012): 4627.
9. Drever, L., and G. Salomons. **Detecting changes in IMRT QA using statistical process control**, *Medical physics* 39.7 (2012): 4630.
10. Yousuf J, Salomons G, Gooding J, Thain S, Falkson CB. **Electron Breast Boost Radiotherapy Planning Using Monte Carlo Based Calculations**, 33rd Annual San Antonio Breast Cancer Symposium Dec 8-12 2010.
11. LJ Schreiner, CP Joshi, J. Darko, AT Kerr, G Salomons and S. Dhanesar. **The Role of Cobalt-60 in Modern Radiation Therapy: Dose Delivery and Image Guidance**, *J. Med Phys* **34**, 133-136, 2009.

12. L. J. Schreiner, A. Kerr, G. Salomons, J. Darko, C. Joshi, M. Rogers, N. Chng, C. Peters. **Cobalt-60 based IMRT with image guidance: Is it possible?**, Proceedings of the International Conference on Quality Assurance and New Techniques in Radiation Medicine (QANTRM), (Vienna, Austria, 2006)
13. M. Rogers, N. Chng, G. Salomons, A. Kerr, L.J. Schreiner, **Preliminary Analysis of a Cobalt-60 Beam Under a MIMiC**, Proceedings of the 52nd Annual Scientific Meeting, 151-154, (COMP, Ottawa, ON, 2006).
14. C. Peters, M. Rogers, D. Eyles, A. Kerr, G. Salomons and L.J. Schreiner, **3rd Generation Co-60 based megavoltage Computed Tomography**. Proceedings of the 52nd Annual Scientific Meeting, 86-88, (COMP, Ottawa, ON, 2006).
15. L. J. Schreiner, M. V. Rogers, G. J. Salomons and A. T. Kerr. **Metal Artifact Suppression in Megavoltage Computed Tomography**. In *Proc. Of SPIE: Physics of Medical Imaging*, M.J. Flynn (ed), **5745**, 637 – 645, (International Society for Optical Engineering, Bellingham, WA, 2005).
16. M. Rogers, A. Kerr, G. Salomons and L.J. Schreiner. **Quantitative Investigations of Megavoltage Computed Tomography**. In *Proc. Of SPIE: Physics of Medical Imaging*, M.J. Flynn (ed), **5745**, 685 – 694, (International Society for Optical Engineering, Bellingham, WA, 2005)
17. A. Kerr, G. Salomons, N. Chng, M. Rogers, C. Joshi, J. Darko, L.J. Schreiner **Advances in image-guided radiation therapy with Cobalt-60 Tomotherapy**, Proc. 14th International Conference of Medical Physics of the International Organization for Medical Physics (IOMP), *Biomedizinische Technik Biomedical Engineering, Medical Physics*, Vol **50**, Supp vol 1, pp. 252-1253, (Nuremburg, Germany Sept. 2005).
18. L. John Schreiner, Andrew Kerr, Greg Salomons, Christine Dyck and George Hajdok. **The Potential for Image Guided Radiation Therapy with Cobalt-60 Tomotherapy**. In *Lecture Notes in Computer Science: Proc.6th Annual International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)* **2879** 449–456 (Springer, Heidelberg, Germany 2003), 2003
19. Greg Salomons, Andrew Kerr, George, Hajdok, Myron Rogers, Christine Dyck and L. John Schreiner. **Further Progress in Cobalt-Tomotherapy at KRCC**. Proc. 49th Annual Conference of COMP, Edmonton, AB, 40-42, (COMP, Edmonton AB, 2003).
20. Chandra P. Joshi, Andrew Kerr, L. John Schreiner and Greg Salomons. **An estimation of treatment times, source activity and other parameters for a ⁶⁰Co Tomotherapy Unit**. Proceedings of the International Conference on Medical Physics and Radiation Safety, Mumbai, India. *Journal of Medical Physics* **26**, 102-104, 2001.

21. Q. Jane Zhang, Kim B. McAuley, Greg Salomons and L. John Schreiner. **Dynamic Mathematical Modeling of a Polyacrylamide Gel Dosimeter**. In Dosgel'01 – Preliminary Proceedings of the 2nd International Workshop on Radiation Therapy Gel Dosimetry, Brisbane, Australia, 113-115, (Queensland University of Technology, 2001).
22. Andrew Kerr, Greg J. Salomons, and L. John Schreiner. **Dose delivery accuracy of a scanned pencil beam for cobalt-60 tomotherapy studies**. Proc. 47th Annual Conference of COMP, Kelowna, BC, 179-181, (COMP, Edmonton AB, 2001).
23. A.T. Kerr , G.J. Salomons, L.J. Schreiner. **Dosimetric Modelling of a Scanned Pencil Beam Apparatus for Evaluation of Cobalt-60 Tomotherapy**. CD-ROM Proceedings of the World Congress on Medical Physics and Biomedical Engineering 4 pp, July 23–28, 2000
24. G.J. Salomons, G.A. Gallant, A.T. Kerr, L.J. Schreiner **CT Imaging For Cobalt-60 Helical Tomotherapy**. CD-ROM Proceedings of the World Congress on Medical Physics and Biomedical Engineering 4 pp, July 23–28, 2000
25. G.J. Salomons, L.J. Schreiner. **Temperature Changes in Irradiated PAG Gel Dosimeters**. *Proceedings of the 1st International Workshop on Radiation Therapy Gel Dosimetry*, 145–147, 1999
26. G.J. Salomons, B. Kim, G Gallant, A Kerr, L.J. Schreiner. **CT Imaging with a Prototype Cobalt-60 Tomotherapy Unit**. *Proceedings of the 45th annual scientific meeting of the Canadian Organization of Medical Physicists*, 35–37, 1999
27. G.J. Salomons, L.J. Schreiner. **Temperature Changes in Irradiated PAG Gel Dosimeters**. *Proceedings of the 45th annual meeting of the Canadian Organization of Medical Physicists*, 35–37, 1999
28. G.J. Salomons, M.A. Singh, L.G. Hiltz, L.H. Pan, and W.R. Newson. **SAXS Study of Deformation Mechanisms in Liquid-Rubber-Toughened Polystyrene**. *Nuclear Instruments and Methods in Physics Research B*, **97** 282–286, 1995
29. J.P. Franck, J. Jung, G.J. Salomons, W.A. Miner, M.A. Mohamed, J. Chrzanowski, S. Gygax, J.C. Irwin, D.F. Mitchell, and G.I. Sproule. **Oxygen Isotope Effect in Superconducting $Y_1Ba_2Cu_3O_{7-x}$** . *Physica C*, **162–164** 753–754, 1990

Invited Presentations and Departmental Seminars (Presenting author underlined)

1. Chandra Joshi, Greg Salomons and Jim Gooding, **Criteria for Manual Monitor Unit Calculations in Virtual Simulation Cases**, Continuing Medical Education, Division of Radiation Oncology, Kingston Regional Cancer Centre, Kingston, ON, Dec 13, 2019

2. G.J. Salomons **The Role of the Physics Plan Check** Continuing Medical Education, Division of Radiation Oncology, Kingston Regional Cancer Centre, Kingston, ON, May 25, 2018
3. G.J. Salomons **Structure Templates** Continuing Medical Education, Division of Radiation Oncology, Kingston Regional Cancer Centre, Kingston, ON, June 16, 2017
4. G.J. Salomons **Contouring and Planning** Continuing Medical Education, Division of Radiation Oncology, Kingston Regional Cancer Centre, Kingston, ON, Jan 20, 2017
5. G. Salomons, **Treatment Planning System Commissioning and QA: Planning and Monitoring**, AAPM 58th Annual Scientific Meeting, Washington, DC, 2016
6. G. Salomons, Moderator, **Treatment Planning System Commissioning and QA**, SAMS Education session AAPM 58th Annual Scientific Meeting, Washington, DC, 2016
7. G.J. Salomons **Introducing Eclipse V 13** Continuing Medical Education, Division of Radiation Oncology, Kingston Regional Cancer Centre, Kingston, ON, 5 lectures beginning Oct 14, 2016
8. G.J. Salomons **New Contouring Practice** Continuing Medical Education, Division of Radiation Oncology, Kingston Regional Cancer Centre, Kingston, ON, 5 lectures beginning Nov 18, 2016
9. G. Salomons, **Treatment Planning System Commissioning and QA: Challenges and Opportunities**, AAPM 57th Annual Scientific Meeting, Anaheim, CA, 2015
10. G. Salomons, Moderator, **Treatment Planning System Commissioning and QA**, SAMS Education session AAPM 57th Annual Scientific Meeting, Anaheim, CA, 2015.
11. Greg Salomons **QA for Treatment Planning** Oncology Grand Rounds, Queen's University, Kingston, ON, Feb 11, 2016.
12. Dr. Mike Brundage and Dr. Greg Salomons **Highlights from the 2015 Winter School** Oncology Grand Rounds, Queen's University, Kingston, ON, Apr 23, 2015.
13. G.J. Salomons **Dosimetric comparison of Acuros XB, AAA, and XVMC in stereotactic bodyradiotherapy for lung cancer**, Continuing Medical Education, Division of Radiation Oncology, Kingston Regional Cancer Centre, Kingston, ON, Mar 7, 2014
14. Dr. John Schreiner and Dr. Greg Salomons **Recent Trends in Medical Physics Research** Oncology Grand Rounds, Queen's University, Kingston, ON, Oct 29, 2013.

15. G.J. Salomons **Quality Control Quantification**, Continuing Medical Education, Division of Radiation Oncology, Kingston Regional Cancer Centre, Kingston, ON, Sept 27, 2013
16. L J Schreiner, O Holmes and G. Salomons **Analysis and Evaluation of planned and delivered dose distributions: practical concerns with γ - and χ - Evaluations** IC3DDose: 7th International Conference On 3D Radiation Dosimetry, Sydney Australia, Nov 4-8 2012
17. G.J. Salomons and Kelly D **Challenges in the use of Software in a Clinical Environment**, Department of Oncology Grand Rounds, Queen's University, Kingston, ON, Oct 18, 2012
18. G.J. Salomons **Impact of calculation resolution in AAA**, Continuing Medical Education, Division of Radiation Oncology, Kingston Regional Cancer Centre, Kingston, ON, Sept 12, 2012
19. G.J. Salomons **Quality Assurance of Clinical Software**, Continuing Medical Education, Division of Radiation Oncology, Kingston Regional Cancer Centre, Kingston, ON, May 2, 2012
20. Yousuf J and Salomons G **Electron Breast Boost Radiotherapy Planning Using Monte Carlo Based Calculations**, Continuing Medical Education, Division of Radiation Oncology, Kingston Regional Cancer Centre, Kingston, ON, Feb 9, 2011
21. G.J. Salomons **Imaging with Cobalt Teletherapy Units**. American Society for Therapeutic Radiation Oncology 2009 Annual Meeting (BEST Theratronics), Chicago, IL, Nov 2, 2009
22. G.J. Salomons **IMRT and Cobalt Teletherapy Units**. American Society for Therapeutic Radiation Oncology 2009 Annual Meeting (BEST Theratronics), Chicago, IL, Nov 3, 2009
23. G.J. Salomons **Electron Monte Carlo Dose Calculations** Continuing Medical Education, Division of Radiation Oncology, Kingston Regional Cancer Centre, Kingston, ON, 5 lectures beginning Sept 17, 2009
24. Schreiner,L.J.; Rogers,M.; Kerr,A and G.J. Salomons **Metal Artefact Suppression in Megavoltage Computed Tomography**. Proceedings of the Imaging Network Ontario 4th Annual Symposium, March 1 2004.
25. G.J. Salomons **MLC Planning on the VoxelQ**. Continuing Medical Education, Division of Radiation Oncology, Kingston Regional Cancer Centre, Kingston, ON, Oct 10, 2003
26. G.J. Salomons **Introduction to Reference Manager**. Continuing Medical Education, Division of Radiation Oncology, Kingston Regional Cancer Centre, Kingston, ON, Feb 8, 2002

27. G.J. Salomons and L.J. Schreiner **Prevention of Radiation Accidents.** Oncology Lecture Series, Department of Oncology, Queen's University, Kingston, ON, Jan 31, 2002.
28. G.J. Salomons **Conformal Radiation Therapy with Cobalt 60 Tomotherapy.** Medical Physics Seminar, Toronto-Sunnybrook Regional Cancer Centre, Toronto, ON, June 27, 2001.
29. G.J. Salomons and L.J. Schreiner **Cobalt-60 Tomotherapy at KRCC.** Oncology Lecture Series, Department of Oncology, Queen's University, Kingston, ON, June 24, 1999.

Published Abstracts

1. Harald Keller, Greg Salomons, Gordon Chan, Lee Chin, Keith Nakonechny, Cathy Neath. **Large Variability in Physics Treatment Plan Review Practice: Results from Two Surveys.** Journal of Applied Clinical Radiotherapy & Oncology **29** (Supplement 1) S54-S55, 2018
2. G Salomons, G Chan, L Chin, H Keller, K Nakonechny, C Neath. **A Survey of the Physics Initial Plan Review Process.** Journal of Applied Clinical Medical Physics **19**(3) 375, 2018
3. C Jechel, T Bulenga, C Joshi, G Salomons and LJ Schreiner. **Commissioning of an Equinox-100 Cobalt-60 Radiotherapy Unit in the Eclipse Treatment Planning System.** Medical physics 2931-2932, 2017
4. Salomons, Greg. **Treatment Planning System Commissioning and QA: Challenges and Opportunities.** WE-AB-201-01: Medical physics **42**, 3662 (2015).
5. G Salomons, D. Kelly, **A Knowledge Based Approach to Guidelines for Software Safety** SU-E-P-43:Med. Phys.**42**, 3236, (2015).
6. Alexander, K. M., C. Jechel, C. Pinter, G. Salomons, A. Lasso, G. Fichtinger, and L. J. Schreiner. **Cross-Validation of 3D Gamma Comparison Tools.** SU-ET-231:Medical physics**42**, 3385 (2015).
7. C. Jechel, G. Salomons, L.J. Schreiner, **Electron Density Measurements of Metallic Implants with Cobalt-60 Computed Tomography,** IFMBE Proceedings 51, World Congress on Medical Physics and Biomedical Engineering in Toronto, (2015).
8. C P Joshi, G Salomons, C Peters, M Lalonde, A Kerr. **Effects of Temporary Tachytherapy Inhibition Magnet On MOSFET Dose Measurements of Cardiovascular Implantable Electronic Devices (CIED) in Radiation Therapy Patients.** *Med Phys* **41**, 256, (2014)

9. K. Alexander, T. Olding, G. Salomons, and L.J. Schreiner, **Characterization of a camera and LED lightbox imaging system for radiochromic film dosimetry**, 11th Imaging Network Ontario Symposium (ImNO), (2013).
10. D. Yip; G. Salomons; G. Bracken; M. Brundage **Electron Therapy for Nonmelanoma Skin Cancers: Computer Simulated Bolus Versus Actual Physical Bolus for Treatment Planning**, *International Journal of Radiation Oncology* Biology* Physics* 84.3 (2012): S660.
11. G.J. Salomons, J. Darko. **The effect of Smoothing on the Uncertainty in the Dose Distributions for a Commercial Electron Monte Carlo Algorithm**, *Medical Physics* **37**, 3436 (2010).
12. L.J. Schreiner, C. Joshi, J. Darko, A. Kerr and G. Salomons. **The Role of Cobalt-60 in Modern Radiation Therapy: Dose Delivery and Image Guidance**. Book of Abstracts – Joint International Conference on Medical Physics (ICMP-2008) and 29th Annual Conference of Association of Medical Physicists of India, I-28, p19, 2008.
13. S. Dhanesar, N. Chng, M. Rogers, C. Joshi, J. Darko, G. Salomons, A. Kerr, J. Schreiner. **Experimental Validation of Conjugant Gradient Based Inverse Treatment Planning System for Cobalt-60 Tomotherapy**, *Radiotherapy & Oncology* **84**, S21, 2007.
14. L.J. Schreiner, Chandra P Joshi, M. Rogers, Greg Salomons, Johnson Darko and Andrew Kerr. **Development of Cobalt-60 Based Tomotherapy**, World Congress on Medical Physics and Biomedical Engineering CD Proceedings, ed. Sun I Kim and Tae Suk Suh, **Vol 2**, 4561 (IOMP, Toronto, ON, 2006).
15. J Darko, C Joshi, E Osei, T Halsall, J Dai, G Salomons, and A Kerr, **Dosimetry of Small Lung Lesions with EGSnrc Monte Carlo and Treatment Planning Systems**, *Med. Phys.* 33, 2094, 2006.
16. GJ Salomons, MV Rogers, N. Chng, AT Kerr and LJ Schreiner, **Cobalt-Based Tomotherapy using a MIMiC Multi-Leaf Collimator**. *Int. J. Rad. Oncol. Biol. Phys.*, 66 (suppl) S683-S84, 2006.
17. C. Peters, M. Rogers, D. Eyles, A. Kerr, G. Salomons and L.J. Schreiner, **3rd Generation Co-60 based megavoltage Computed Tomography**. *Med. Phys.* 33, 2662, 2006.
18. M. Rogers, N. Chng, G. Salomons, A. Kerr, L.J. Schreiner, **Preliminary Analysis of a Cobalt-60 Beam Under a MIMiC**, *Med. Phys.* **33**, 2667, 2006.
19. C. Peters, M. Rogers, D. Eyles, A. Kerr, G. Salomons, L.J. Schreiner, **3rd Generation Co-60 based Megavoltage Computed Tomography**, Imaging Network Ontario 5th Annual Imaging Symposium, 151, (OCITS, Toronto, ON, 2006).

20. M. Brundage, M. Rogers, A. Kerr, G. Salomons, W. Mackillop and L.J. Schreiner, **“Is There an Increased Role for Megavoltage CT Imaging in Radiation Therapy (and Beyond)?”**, *Radiotherapy and Oncology* **76**, S32, (2005).
21. Greg Salomons, Myron Rogers, Andrew Kerr and L. John Schreiner, **Metal Artefact Suppression in Megavoltage Computed Tomography**, *Technical Program/Summary Digest*, pp 84, 2005. San Diego, USA.
22. Myron Rogers, Andrew Kerr, Greg Salomons and L. John Schreiner, **Quantitative Investigations of megavoltage Computed Tomography**. *Technical Program/Summary Digest*, pp 85, 2005. San Diego, USA
23. Myron Rogers, Andrew Kerr, Greg Salomons and L. John Schreiner, **Quantitative Investigations of Megavoltage Computed Tomography**. Imaging Network Ontario 4th Annual Imaging Symposium. pp 135, 2005. Toronto, ON.
24. Greg Salomons, Myron Rogers, Andrew Kerr and Dr. L. John Schreiner. **Metal Artefact Suppression in Megavoltage Computed Tomography**. Imaging Network Ontario 4th Annual Imaging Symposium, pp. 139, 2005. Toronto, ON.
25. Greg Salomons, Myron Rogers, Andrew Kerr and L. John Schreiner **Metal Artefact Suppression in Megavoltage Computed Tomography**. Proceedings of the Imaging Network Ontario 4th Annual Symposium, 33, 2004.
26. Myron Rogers, Andrew Kerr, Greg Salomons and L. John Schreiner **Quantitative Investigations of Megavoltage Computed Tomography**. Proceedings of the Imaging Network Ontario 4th Annual Symposium, 27, 2004.
27. Andrew Kerr, Myron Rogers, Greg Salomons, and L. John Schreiner. **Metal Artifact Suppression in High Energy Photon CT Imaging**. *Med. Phys.*, Vol. **31**, p. 1719, July. 2004.
28. Greg Salomons, Andrew Kerr, George, Hajdok, Myron Rogers, Christine Dyck and L. John Schreiner. **Further Progress in Cobalt-Tomotherapy at KRCC**. *Med. Phys.*, Vol. **30**, No. 7, p. 1940, July. 2003.
29. G. J. Salomons, A. T. Kerr, Chandra P. Joshi and L. J. Schreiner. **Investigations of Radiation Delivery using Cobalt 60 Tomotherapy**. Proceedings of the Imaging Network Ontario 2nd Annual Symposium, 37,91, 2002.
30. G. Hajdok, G. J. Salomons, A. T. Kerr and L. J. Schreiner. **Megavoltage Computed Tomography Using a Cobalt-60 Gamma Ray Source for Radiotherapy Treatment Verification**. Proceedings of the Imaging Network Ontario 2nd Annual Symposium, 38,92, 2002.
31. L.J. Schreiner, A.Kerr, A. Hsu, G. Salomons and G. Gallant. **Cobalt Tomotherapy: Something Old And Something New**. Cancer Care Ontario 18th Biennial Research Conference, Physicists Meeting, 40, 2001

32. Yong S. Park, Greg J. Salomons, Jane Zhang, Kim B. McAuley and L. John Schreiner. **Polymer Gel Dosimetry: A Unique Tool for Three-Dimensional Dosimetry.** Cancer Care Ontario 18th Biennial Research Conference, Physicists Meeting, 26, 2001
33. L. John Schreiner, Andrew Kerr, Annie Hsu, Greg J. Salomons and Gregg Gallant. **Cobalt Tomotherapy: Something Old And Something New.** Cancer Care Ontario 18th Biennial Research Conference, Physicists Meeting, 40, 2001
34. Andrew Kerr, Greg J. Salomons, and L. John Schreiner. **Dose delivery accuracy of a scanned pencil beam for cobalt-60 tomotherapy studies,** *Med. Phys.*, Vol. **28**, No. 9, p. 1986, Sept. 2001.
35. G. J. Salomons, G. Gallant, A. Kerr and L. J. Schreiner. **CT imaging for Cobalt-60 tomotherapy.** In CD-ROM Proc. World Congress Medical Physics and Biomedical Engineering, Chicago IL, (IEEE, Piscataway NJ, 2000).
36. A. Kerr, G. J. Salomons, and L. J. Schreiner. **Dosimetric modeling of a scanned pencil beam apparatus for evaluation of Cobalt-60 tomotherapy.** In CD-ROM Proceedings of the World Congress on Medical Physics and Biomedical Engineering, Chicago IL, (IEEE, Piscataway NJ, 2000).
37. L.J. Schreiner, A Kerr, G.J. Salomons, G Gallant. **Cobalt-60 as a Radiation Source for Tomotherapy Radiation Treatment.** *Clinical and Investigative Medicine*, **20**, S47, 1999
38. G.J. Salomons, B. Kim, G Gallant, A Kerr, L.J. Schreiner. **CT Imaging with a Prototype Cobalt-60 Tomotherapy Unit.** *Medical Physics*, **26**, 1431, 1999
39. G.J. Salomons, L.J. Schreiner. **Temperature Changes in Irradiated PAG Gel Dosimeters.** *Medical Physics*, **26**, 1419, 1999
40. L.J. Schreiner, G. Gallant, G. Salomons, C. Cartile, and A. Kerr. **Viability of a Cobalt-60 Tomotherapy Unit.** *Medical Physics*, **25**, 1584, 1998.

Presentations to Research Conferences (Presenting author underlined)

1. Rink A, Salomons G, Vandermeer A, et al. **Best-Practice Guidelines for Radiation Treatment Plan Physics Review: Report of a Provincial Working Group**, 2020 Joint AAPM/COMP Virtual Meeting. August 2020.
2. Alireza Sedghi, Gregory Salomons, Jean-David Jutras, Jim Gooding, John Schreiner, William Wells, Parvin Mousavi, Andrew Grebenisan, **Image registration with deep probabilistic classifiers: application in radiation therapy**, SPIE Medical Imaging, Houston, Texas, United States, 15 - 20 February 2020.

3. Thomas. N. Bulenga; C. Jechel; Chandra. P. Joshi; G. Salomons and L. J. Schreiner. **Dosimetric Commissioning of an upgraded Equinox-100 Cobalt-60 unit in the Varian Eclipse Treatment Planning System**, Canadian Organization of Medical Physicists (COMP) 65th Annual Scientific Meeting, Kelowna, British Columbia, Sep 24 - 27, 2019.
4. Gordon Chan, Lee Chin, Harald Keller, Keith Nakonechny, Cathy Neath, Greg Salomons, **Physics Plan Checking Practices**, World Congress, Toronto, June 7-12, 2015.
5. Gordon Chan, Lee Chin, Harry Keller, Keith Nakonechny, Cathy Neath, and Greg Salomons, **Physics Plan Checking Practices**, COMP Winter School, Kelowna, BC, February 2015.
6. G. Salomons, and D. Kelly **A knowledge based approach to guidelines for software safety**, COMP Winter School, Kelowna, BC, February 2015.
7. G. Salomons, and D. Kelly **Exploring the use of Software Written by Medical Physicists at Radiation Therapy Clinics within Canada**, COMP Winter School, Quebec City January 2014.
8. D. Kelly, and G. Salomons **Clinical Software Assessment**, COMP Winter School, Quebec City January 2014.
9. D. Yip; G. Salomons; G. Bracken; M. Brundage **Electron Therapy for Nonmelanoma Skin Cancers: Computer Simulated Bolus Versus Actual Physical Bolus for Treatment Planning**, 54th Annual Meeting of ASTRO, Boston MA, Oct 28-31 2012.
10. G.J. Salomons, J. Darko. **The effect of Smoothing on the Uncertainty in the Dose Distributions for a Commercial Electron Monte Carlo Algorithm**, 52nd Annual Meeting of the AAPM, Philadelphia, Pennsylvania, July 18-22 2010.
11. L.J. Schreiner, C. Joshi, J. Darko, A. Kerr and G. Salomons. **The Role of Cobalt-60 in Modern Radiation Therapy: Dose Delivery and Image Guidance**. ICMP-2008, Mumbai, India.
12. S. Dhanesar, N. Chng, M.V. Rogers, C.P. Joshi, J. Darko, G. Salomons, A.T. Kerr, L.J. Schreiner. **Experimental Validation of Conjugate Gradient based Inverse Treatment Planning system for Cobalt-60 Tomotherapy**. COMP 2007
13. L.J. Schreiner, A. Kerr, G. Salomons, J. Darko, C. Joshi, M. Rogers, N. Chng, C. Peters. **Cobalt-60 based IMRT with image guidance: Is it possible?** International Conference on Quality Assurance and New Techniques in Radiation Medicine, Vienna, Austria, Nov. 13-15, 2006
14. M. Rogers, G. Salomons, A. Kerr and L.J. Schreiner, **Feasibility of Conformal Dose Delivery with Co-60 Tomotherapy**, Queen's Cancer Research Institute Annual meeting, Gananoque, ON. Jan.30, 2006

15. Greg Salomons, Myron Rogers, Andrew Kerr and L. John Schreiner, **Metal Artifact Suppression in Megavoltage Computed Tomography**, Imaging Network Ontario, 4th Annual Imaging Symposium, March 1-3, 2005, Toronto, Canada.
16. Myron Rogers, Andrew Kerr, Greg Salomons and L. John Schreiner **Quantitative Investigations of Megavoltage Computed Tomography**. Proceedings of the Imaging Network Ontario 4th Annual Symposium, March 1 2005.
17. G. Salomons, A. Kerr, G. Hajdok, M. Rogers, C. Dyck and L.J. Schreiner, **Further Progress in Cobalt-Tomotherapy at KRCC**. In Proceedings of the 49th COMP Annual Meeting & CCPM Symposium on The Move to Image-Guided and Adaptive Radiation Therapy, June 5-7 2003, Edmonton, Alberta.
18. G. J. Salomons, A. T. Kerr, Chandra P. Joshi and L. J. Schreiner. **Investigations of Radiation Delivery Using Cobalt 60 Tomotherapy**. Imaging Network Ontario 2nd Annual Symposium, Toronto, Ontario, Sept. 24 2002.
19. G. Hajdok, G. J. Salomons, A. T. Kerr and L. J. Schreiner. **Megavoltage Computed Tomography Using a Cobalt-60 Gamma Ray Source for Radiotherapy Treatment Verification**. Imaging Network Ontario 2nd Annual Symposium, Toronto, Ontario, Sept. 24 2002.
20. Q. Jane Zhang, Kim B. McAuley, Greg Salomons and L. John Schreiner. **Dynamic Mathematical Modeling of a Polyacrylamide Gel Dosimeter**. 2nd International Workshop on Radiation Therapy Gel Dosimetry, Brisbane, Australia, Nov 18-21, 2001.
21. Chandra P. Joshi, Andrew Kerr, L. John Schreiner and Greg Salomons. **An estimation of treatment times, source activity and other parameters for a ⁶⁰Co Tomotherapy Unit**. Proceedings of the International Conference on Medical Physics and Radiation Safety and 22nd AMPI Annual Conference on Medical Physics, Mumbai, India. Nov 26-29, 2001.
22. Yong S. Park, Greg J. Salomons, Jane Zhang, Kim B. McAuley and L. John Schreiner. **Polymer Gel Dosimetry: A Unique Tool for Three-Dimensional Dosimetry**. Cancer Care Ontario 18th Biennial Research Conference, Orillia, ON, Nov 12-14 2001
23. Andrew Kerr, Greg J. Salomons, and L. John Schreiner. **Dose delivery accuracy of a scanned pencil beam for cobalt-60 tomotherapy studies**. Annual Conference of COMP, Kelowna, BC, July 11-14, 2001
24. G.J. Salomons, B. Kim, G Gallant, A Kerr, L.J. Schreiner. **CT Imaging with a Prototype Cobalt-60 Tomotherapy Unit**. Canadian Organisation of Medical Physicists, 45th Annual Scientific Meeting (Sherbrooke, PQ, June 1999)

25. J.P. Harrison, M Kohl, and G.J. Salomons. **The Effects of Silver Doping on the Flux Dynamics in YBCO** Canadian Association of Physicists Annual Conference (University of Manitoba, June 1991)
26. J.P. Franck, J. Jung, G.J. Salomons, W.A. Miner, M.A. Mohamed, J. Chrzanowski, S. Gygax, J.C. Irwin, D.F. Mitchell, and G.I. Sproule. **Isotope Effect in Superconducting $Y_1Ba_2Cu_3O_{7-x}$** . ICMC 1990 Topical Conference on Materials Aspects of High Temperature Superconductors (Garmish-Parlenkirchen, FRG, May 1990)
27. J.P. Franck, J. Jung, G.J. Salomons, W.A. Miner, M.A. Mohamed, J. Chrzanowski, S. Gygax, J.C. Irwin, D.F. Mitchell, and G.I. Sproule. **Oxygen Isotope Effect in Superconducting $Y_1Ba_2Cu_3O_{7-x}$** . International Conference on Materials and Mechanisms of Superconductivity: High Temperature Superconductors II, (Stanford University, USA, July 1989)

Poster Presentations and Exhibits to Research Conferences (Presenting author underlined)

1. Thomas. N. Bulenga; Chandra. P. Joshi; C. Jechel; G. Salomons and L. J. Schreiner. **Dosimetric Commissioning of an upgraded Equinox-100 Cobalt-60 unit in the Varian Eclipse Treatment Planning System.** 24th International Conference on Medical Physics 2019, Santiago, Chile, Sept 8-11 2019
2. Jean-David Jutras, Greg Salomons. **Registration and Motion Uncertainties in Brain FSRT.** ICCR-MCMA 2019, Montréal, QC, June 17-21 2019
3. Harald Keller, Greg Salomons, Gordon Chan, Lee Chin, Keith Nakonechny, Cathy Neath. **Large Variability in Physics Treatment Plan Review Practice: Results from Two Surveys.** CARO-COMP-CAMRT 2018 Joint Scientific Meeting, Montréal, QC, Sept 12-15 2018
4. G Salomons, G Chan, L Chin, H Keller, K Nakonechny, C Neath. **A Survey of the Physics Initial Plan Review Process.** AAPM Spring Clinical Meeting, Las Vegas, NV, April 7-10, 2018
5. C Jechel, T Bulenga, C Joshi, G Salomons and LJ Schreiner. **Commissioning of an Equinox-100 Cobalt-60 Radiotherapy Unit in the Eclipse Treatment Planning System.** AAPM Annual Scientific Meeting, Denver, CO, July 30- Aug 3, 2017
6. G Salomons, D. Kelly, **A Knowledge Based Approach to Guidelines for Software Safety** AAPM 57th Annual Scientific Meeting, Anaheim, CA, (2015)
7. Alexander, K. M., C. Jechel, C. Pinter, G. Salomons, A. Lasso, G. Fichtinger, and L. J. Schreiner. **Cross-Validation of 3D Gamma Comparison Tools.** AAPM 57th Annual Scientific Meeting, Anaheim, CA, (2015)

8. C. Jechel, G. Salomons, L.J. Schreiner, **Electron Density Measurements of Metallic Implants with Cobalt-60 Computed Tomography**, World Congress on Medical Physics and Biomedical Engineering Toronto, ON (2015).
9. K. Alexander, T. Olding, G. Salomons, and L.J. Schreiner **Characterization of a camera and LED lightbox imaging system for radiochromic film dosimetry**, 11th Imaging network Ontario Symposium (ImNO), February 2013
10. Drever, L. and G. Salomons. **Detecting changes in IMRT QA using statistical process control**, Canadian Organization of Medical Physicists 58th Annual Scientific Meeting Halifax NS, July 11-14 2012
11. K Alexander, E Percy, T Olding, LJ Schreiner and G Salomons **Characterization of a camera and LED lightbox imaging system for radiochromic film dosimetry**, Canadian Organization of Medical Physicists 58th Annual Scientific Meeting Halifax NS, July 11-14 2012
12. Yousuf J, Salomons G, Gooding J, Thain S, Falkson CB. **Electron Breast Boost Radiotherapy Planning Using Monte Carlo Based Calculations**, 33rd Annual San Antonio Breast Cancer Symposium Dec 8-12 2010.
13. G.J. Salomons, J. Darko. **The effect of Smoothing on the Uncertainty in the Dose Distributions for a Commercial Electron Monte Carlo Algorithm**, 52nd Annual Meeting of the AAPM, Electronic Poster.
14. S. Dhanesar, N. Chng, M. Rogers, C. Joshi, G. Salomons, J. Darko, A. Kerr, L. J. Schreiner, **Co-60 Tomotherapy: A Move Towards Modern Radiation Therapy**, 10th Ann Mtg. for Health Sciences Research Trainees, Queen's University, Kingston, ON, May 29, 2007.
15. S. Dhanesar, N. Chng, M. Rogers, C. Joshi, G. Salomons, J. Darko, A. Kerr, L. J. Schreiner, **Co-60 Tomotherapy: A Move Towards Modern Radiation Therapy**, Ann. Mtg. and Retreat, Queen's Cancer Research Institute, Gananoque, ON, June 11, 2007.
16. G. Salomons, M. Rogers, N. Chng, A. Kerr and L.J. Schreiner, **Cobalt-based Tomotherapy using a MIMiC multi-leaf Collimator**. ASTRO Annual Meeting, Philadelphia, Nov 5-7, 2006.
17. L.J. Schreiner, Chandra P Joshi, M. Rogers, Greg Salomons, Johnson Darko and Andrew Kerr. **Development of Cobalt-60 Based Tomotherapy**, World Congress on Medical Physics and Biomedical Engineering 2006 (Aug 27 – Sept 1, 2006), Seoul, South Korea.
18. L.J. Schreiner, J Darko, C Joshi, M Rogers, N Chng, C Peters, G Salomons, and A Kerr, **Advances in Co-60 Based Tomotherapy Including Megavoltage CT**, AAPM Conference, Orlando, Florida, July 30 – Aug 3, 2006. (Moderated Poster).

19. J. Darko, C Joshi, E Osei, T Halsall, J Dai, G Salomons, and A Kerr, **Dosimetry of Small Lung Lesions with EGSnrc Monte Carlo and Treatment Planning Systems**, AAPM Conference, Orlando, Florida, July 2006.
20. J. Darko, L.J. Schreiner, C. Joshi, M. Rogers, N. Change, C. Peters, G. Salomons, A. Kerr, **Advances in Co-60 Based Tomotherapy Including Megavoltage CT**, 2006 AAPM Annual Meeting, Orlando, Florida, July 30, 2006.
21. C. Peters, M. Rogers, D. Eyles, A Kerr, G. Salomons, L.J. Schreiner, **3rd Generation Co-60 based Megavoltage Computed Tomography**, COMP, Saskatoon, Saskatchewan, 2006.
22. M. Rogers, N. Chng, G. Salomons, A. Kerr, L.J. Schreiner, **Preliminary Analysis of a Cobalt-60 Beam Under a MIMiC**, COMP, Saskatoon, Saskatchewan, 2006.
23. C. Peters, M. Rogers, D. Eyles, A. Kerr, G. Salomons, L.J. Schreiner, **3rd Generation Co-60 Based Megavoltage Computed Tomography**, 9th Annual Meeting for Health Sciences Research Trainees, May 30, 2006, Queen's University, Kingston, Canada.
24. M. Rogers, N. Chng, G. Salomons, A. Kerr, L.J. Schreiner, **Co-60 Tomotherapy: Conformal Dose Delivery without a LINAC**, 9th Annual Meeting for Health Sciences Research Trainees, May 30, 2006, Queen's University, Kingston, Canada.
25. M. Rogers, G. Salomons, A. Kerr, L.J. Schreiner, **Potential for Conformal Dose Delivery with Co-60 Based Tomotherapy**, Target Insight II: Innovative Strategies for Target Definition to Enhance Therapeutic Ratio, May 5&6, 2006, Toronto, Canada.
26. C. Peters, M. Rogers, D. Eyles, A. Kerr, G. Salomons, L.J. Schreiner, **3rd Generation Co-60 based Megavoltage Computed Tomography**, Imaging Network Ontario, 5th Annual Imaging Symposium, April 3&4, 2006, Toronto, Canada.
27. A. Kerr, G. Salomons, N. Chng, M. Rogers, C. Joshi, J. Darko, L.J. Schreiner. **Advances in image-guided radiation therapy with Cobalt-60 Tomotherapy**, 14th International Conference of Medical Physics of the International Organization for Medical Physics (IOMP), Nuremburg, Germany, September 14-17, 2005.
28. M. Brundage, A. Kerr, G. Salomons, W. Mackillop and L.J. Schreiner, **Cobalt-based Tomotherapy: State-of-the-art Radiotherapy Without a Linac**, CARO – ACRO Annual Scientific Meeting, Victoria, BC. Sept. 7-10/05.
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