

D.W.O. Rogers

Canada Research Chair in Medical Physics
Physics Department, Carleton University
Ottawa K1S 5B6

Born in Toronto, married, 4 children

Education:

BSc(1968), MSc(1969), PhD (1972), all University of Toronto.

PhD Thesis: "The Nuclear Structure of ^{19}F "; Supervisor: A.E. Litherland.

Work Experience:

Dec 2003–: Professor/Canada Research Chair in Medical Physics, Physics Department, Carleton University, Ottawa.

1984–2003: Head of 14–20 person Ionizing Radiation Standards Group at NRC.

1979–84: Coordinator of the Radiation Dosimetry Group of NRC.

1979: Seconded for 6 months to the NRC Renewable Energy Project as an energy analyst.

1973–79: Research officer at NRC working on neutron dosimetry.

1972–73: PDF at the Oxford Nuclear Physics Lab working on structure of light nuclei.

Related Professional Activities:

2009-2011: Member of NSERC's Physics Evaluation Group, responsible for peer review of physics Discovery Grants and RTI grants.

2009–: Member of the AAPM's Science Council.

2008–2009: Co-director of AAPM's 2009 Summer School on Clinical Dosimetry Measurements for Radiotherapy, June 20-25. Edited the associated 1112 page book.

2006–: Member of International Advisory Board of journal Physics in Medicine and Biology

2005–2010: Founding Chair of the COMP Gold Medal Committee.

2005–: Deputy Editor of the journal Medical Physics (one of two)

2004: Member of AAPM's Ad-hoc Journal Editor Search Committee to recruit and select a new editor for the journal Medical Physics.

2003–2007: Member, AAPM's Task Group on Monte Carlo Treatment Planning.

2002–2007: Member, AAPM's Journal Business Management Committee which oversees the business side of Medical Physics.

1999–2001: AAPM Board of Directors,

1995–1999: Member, Atomic Energy Control Board's Advisory Committee on Radiation Protection.

1994 –1996 Founding chair, Canadian Organization of Medical Physicist's Awards Cttee.

1991–93: Member of AAPM's TG–39 on the Calibration of Parallel Plate Ion Chambers.

1990–1999: Member of AAPM's TG-51 on developing a new radiation dosimetry protocol.

1990–1996: Lecturer for graduate physics course at Carleton University and Secretary(until 1991) of the Ottawa area Medical Physics Organized Research Unit.

1988–1997: Member of AAPM's Radiation Therapy Committee.

1987–2003: Canadian representative on the Comité Consultatif pour les Étalons de Mesure des Rayonnements Ionisants (Section I, Rayons X et γ , électrons) of the BIPM.

1987–: Associate Editor of Medical Physics, the official journal of the AAPM.

1987: Co-director of 10 day course on "*Monte Carlo Transport of Electrons and Photons Below 50 MeV*" held at the Ettore Majorana Centre for Scientific Culture in Erice, Italy.

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CV for D.W.O. Rogers (cont)

1986–2003: Adjunct Professor, Physics Department of Carleton University

1981–85: On the executive of the Division of Medical Physics of the Canadian Association of Physicists, including Chairperson, 1983/84.

1968–70: Chairman of Canadian Concerned Scientists, a staff-student organization at the U of T to promote the socially beneficial use of science in society.

1967–68: President, U of T Undergraduate Maths and Physics Society.

Publications:

About 147 refereed journal papers, 9 full papers and 30 extended abstracts in conference proceedings, 15 book chapters, edited two books, 100 formal internal reports.

Research Interests:

Radiation dosimetry, radiotherapy treatment planning, Monte Carlo methods for simulation of electron and photon transport .

Awards/Honours:

2011 Carleton University **Research Achievement Award**.

2010 Awarded the **William D Coolidge Award** of the 7000 member AAPM. “The AAPM’s highest honor is presented to a member who has exhibited a distinguished career in medical physics, and who has exerted a significant impact on the practice of medical physics.”

2009 **Lifetime Achievement Award**: Upstate New York Ass. of Physicists in Medicine
2009 **Awarded a plaque at MCTP2009** “in recognition of his outstanding contributions on Monte Carlo simulation in Medical Physics”.

1991, 1999, 2003, 2007, 2011 **Farrington–Daniels Award** of the American Association of Physicists in Medicine (AAPM) for authoring the “best article on radiation dosimetry” in the journal Medical Physics during previous year.

2001 **FPTT Team Award** for technology transfer from the federal government (Federal Partners in Technology Transfer) for work on licensing VMC++ to MDS Nordion.

1997, elected **Fellow of the AAPM** “in recognition of distinguished contributions to the field of Medical Physics”.

1994 **NRC “Outstanding Achievement Award”** for work with the EGS4 code.

1994 **Landauer Memorial Lectureship** awarded jointly by the Bay area chapters of the Health Physics Society and AAPM. “Awarded for distinguished contribution to the field of Radiological Physics and Radiation Health Protection.”

1989 CAP’s **Sylvia Fedoruk Prize** in Medical Physics awarded for co-authoring the “best” Canadian paper in the field of medical physics in 1988 (honourable mention 1992/93/98/99).

Grants Held:

CRC grant, 2003–2010, \$1.4M. CFI/OIT grant \$328K, NSERC Discovery Grant, 2009-13, \$69K/y, 2004-08, \$32K/y. Carleton U internal grant, 2007: \$50K. Three NSERC grants (totalling \$102K), 1986–1994; Co-PI on 2 NIH grants (totalling \$800K to NRC) on Monte Carlo Treatment Planning (1990-1996); PI on NIH grant (for \$534K) re clinical dosimetry (1996–00); co-investigator on NIH brachytherapy grant (\$250K to NRC, 1997 - 2001).

Teaching:

Organized and lectured at 28 Monte Carlo courses on EGS4, EGSnrc, BEAM. I have taught Radiotherapy Physics grad course 5 times and 1st year E&M for engineers 5 times. I have supervised: 8 PhD and 4 MSc theses and am currently supervising 3 PhD students; 17 PDFs/RAs; 11 foreign visitors to my lab for 3 months or more.