

LECTURER'S VITAE

IAEA-ARGONNE TRAINING COURSE

Name: Jacob Van Dyk
Present Position: Professor Emeritus
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Scope of Present Duties:

Retired; however, remain professionally involved in various consulting and teaching activities for the International Atomic Energy Agency (IAEA) and various professional organizations including the Canadian Organization of Medical Physicists (COMP) and the American Association of Physicists in Medicine (AAPM). Also co-chairman of one of the workgroups for the Union of International Cancer Control (UICC) Global Task Force on Radiotherapy for Cancer Control (GTFRCC). Presently, in the process of setting up a new organization called Medical Physicists Without Borders. Its primary function is to provide support activities, especially in low-to-middle income countries, which will yield effective and safe use of physics and technologies in medicine through advising, training, demonstrating and/or participating in medical physics-related activities.

Most Relevant Past Experience:

He has over 40 years of experience in the practical facets of radiation oncology physics with 24 years at the Princess Margaret Hospital (PMH) in Toronto, Ontario, Canada and 15 years at the London Regional Cancer Program, London, Ontario, Canada. During his tenure at PMH, he took a one year leave of absence (1974-75) to work at the Centre de Radiothérapie, Hôpital Cantonal de Genève, in Geneva, Switzerland. His research includes multiple aspects of the implementation of modern technology into clinical practice. His recent research addresses outcome optimization and uncertainty propagation in conformal and intensity modulated radiation therapy as well as the assessment of normal tissue response to radiation treatment with an emphasis on radiation-induced lung damage. He continues to

work with the IAEA both as a consultant in Vienna and as a lecturer in various venues around the world. In addition to about 200 publications, he has published 3 books (~2100 pages) in 1999 (Volume 1), 2005 (Volume 2) and in 2013 (Volume 3) on "The Modern Technology of Radiation Oncology: A Compendium for Medical Physicists and Radiation Oncologists". He has won various teaching awards and, in 2011, he was awarded the Gold Medal by the Canadian Organization of Medical Physicists (COMP) to recognize an outstanding career as a medical physicist who has worked mainly in Canada. In 2014 he was awarded an Honorary Doctorate degree from Western University for a very successful career in Medical Physics.

Educational Background:

B.Sc. Physics (1968); M.Sc. Radiation Physics (1971). Certified as Fellow of the Canadian College of Physicists in Medicine (1980). Honorary Fellow of the American Association of Physicists in Medicine (1997) and of the Canadian Organization of Medical Physicists (2012). Honorary Doctor of Science from Western University in 2014.

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