



Prof William Rae

Board Member

Profession & Current Position

Medical Physicist – Head of Department of Medical Physics, Deputy Head of School Research.

Area of Expertise

Imaging Medical Physics, Quantitative Image Analysis

Awards

- MRC Post Internship Bursary
- NRF Travel Grant

Qualification & Designation/s

Doctor of Philosophy – Immunology; Master of Medical Science -Medical Microbiology; National Higher Diploma Medical Technology Immunology & Pathophysiology; Specialist Diploma in Chemical Pathology IV; Nat. Dip. Medical Technology in Clinical Pathology

Top Publications

1. Rae, W.I.D., Willemse, C.A., Lötter, M.G., Engelbrecht, J.S., Swarts, J.C., "Chelator effect on Ion Diffusion in Ferrous Sulfate Doped Gelatin Gel Dosimeters as Analyzed by MRI", *Med. Phys.* 1996, 23 (1) 15-24.
2. Pui, M.H., Mitha, A., Rae, W.I.D., Corr, P., Diffusion-Weighted Magnetic Resonance Imaging of Spinal Infection and Malignancy, *Journal of Neuroimaging*, 2005 15 (2) 164-170.
3. Padayachee, J., Alport, M.J., Rae, W.I.D., Mammographic CAD: Correlation of regions in ipsilateral views – a pilot study *SA Journal of Radiology*, 2009 48-54.
4. Moodley, A., Rae, W.I.D., Bhigjee, A., Loubser, N., Michowicz, A., New Insights into the Pathogenesis of Cryptococcal Induced Visual Loss using Diffusion-Weighted Imaging of the Optic Nerve, *Neuro-Ophthalmology*, 2012 36(5) 186-192.
5. Shaw, W., Rae W.I.D., Alber, M.L., Equivalence of Gyn GEC-ESTRO guidelines for image guided cervical brachytherapy with EUD-based dose prescription., *Radiation Oncology* 2013, <http://www.ro-journal.com/content/8/1/266>, November 2013 8:266.

Association to the SAMRC

Prof Rae was awarded a Post Internship bursary with the SAMRC in 1986. As a result, he completed his internship and an MSc Med Medical Physics in 1987. Currently Prof Rae is a collaborator on an SAMRC Flagship Project running in Bloemfontein.

