

	SAAPMB 2017 Programme		
	Applications have been made for CPD accreditation of the SAAPMB 2017 Congress		
	Monday 25 September		
08:00 - 09:00	Registration		SARS AGM
09:00 - 09:30			Tea/Coffee
09:30 - 09:50	WELCOME AND OPENING ADDRESS		
09:50 - 10:20	Session A Dr Graeme L Lazarus	A1 Prof Jake Van Dyk	Responding to cancer crisis: Global access to radiotherapy by 2035
10:20 - 10:35		A2 Mr Stalyn Mutsakanyi	A study to determine pMLC collimated electron beam characterization using film measurements
10:35 - 10:50		A3 Mr Courage Mahuvava	A study to determine the relationship between the integral quality monitor (IQM) [®] output signal and absorbed dose
10:50 - 11:05		A4 Mr Lourens Strauss	Linac logfiles: Digital data as an alternative to physical verification measurements
11:05 - 11:20		A5 Mr Arlindo Fernandes	Exploring EPID based electron beam quality measurement.
11:20 - 11:35		A6 Mr Matthias Dessein	An accurate shortcut for checking electron energy in water
11:35 - 11:50		A7 Dr Jacob Liebl (PTW)	DICOM RT Studio: One Platform for All Patient QA Needs’
11:50 - 12:50	Lunch		
12:50 - 13:20	Session B Dr Freek du Plessis	B1 Prof Yakov Pipman	AAPM's International educational endeavors and resources
13:20 - 13:35		B2 Mr Karl Sachse	Development and Validation of an Electron Monte Carlo Model for an Elekta Synergy Linear Accelerator
13:35 - 13:50		B3 Mr Liebner Koen	High resolution dose verification – Do we really gain anything?
13:50 - 14:05		B4 Mr Willie Boonzaier	Digitization of multi leaf collimator quality assurance
14:05 - 14:20		B5 Mr Hector Leboea	An inter-comparison of 6MV and 6MV FFF IMRT and VMAT treatments for head and neck lesions
14:20 - 14:35		B6 Mr Lourens Strauss	Dosimetric quantification of composite MLC positional errors in advanced radiotherapy treatments
14:35 - 15:05	Tea/Coffee		
15:05 - 15:25		C1 Prof Debbie van der Merwe	Feedback on the IAEA ICARO2 meeting held in June 2017
15:25 - 15:40		C2 Mr Nkosingiphile Maphumulo	Summary of a joint ICTP-IAEA international workshop on the implementation of Image Guided Radiation Therapy (IGRT)
15:40 - 15:55		C3 Ms Daniella Violante	Implementing a modified Winston-Lutz Test for stereotactic radiotherapy at Universitas Hospital Annex
15:55 - 16:10		C4 Mr Mpho Mokwena	A review of current specifically targeted nanoparticle drug delivery systems for photodynamic treatment of Lung cancer.
16:10 - 16:40 POSTER PRESENTATIONS	Session C Mr David Venter	P1 Ms Elsie Nolte	Targeting actin dynamics with a novel LIM kinase inhibitor results in radiosensitization of breast cancer cells and pro-apoptotic bystander effects
		P2 Dr Charlot Vandevoorde	Assessment of out-of-field DNA damage and the impact of neutron RBE on secondary cancer risk in pediatric proton therapy
		P3 Mrs Monique Du Toit	Validation of a contrast orientated algorithm to delineate the target volume from FDG-PET/CT images using a novel gelatin phantom
		P4 Dr Ade Nicholas	A study of 6 MV multi-field photon-beam dose distributions in a pelvic prosthetic phantom
		P5 Ms Sekai Shambira	Quantification of penumbra size for small static fields for 6MV and 10MV beams produced by the Apex TM MLC.
		P6 Mr Oluwaseyi Oderinde	On the sensitivity of the integral quality monitoring system to MLC positional error using BEAMnrc Monte Carlo simulation
		P7 Mr Ayron Rule	Quality control procedure development for linear accelerator multileaf collimators in radiotherapy as presented ICARO2
		P8 Mr Edward Mokhure	Development of an Incident reporting and learning database at the Charlotte Maxeke Johannesburg Academic Hospital
16:40 - 17:10	SARPS AGM		
17:10 - 19:30	Cocktail Function		

Tuesday 26 September			
08:00 - 08:30	Registration		
08:30 - 09:00	Session D Mr Christoph Trauernicht	D1 Prof Moyed Miften	Advances in hybrid technologies (MRI/Linac - CT/Linac)
09:00 - 09:15		D2 Dr Andre Rose	Dosimetry utilisation and practices among South African interventionalists.
09:15 - 09:30		D3 Mr Frik Beeslaar	Determination of an environmental background spectrum and data to be used for routine analyses of whole body and lung counts
09:30 - 09:45		D4 Mr Mohlapoli Mohlapholi	Quantification of positron emission tomography brain imaging using 18F-Fallypride: a simulation
09:45 - 10:00		D5 Mrs Annemari Groenewald	Design of a universal phantom for quality assurance in diagnostic radiology x-ray imaging
10:00 - 10:15		D6 Mr Christoph Trauernicht	Scattered Dose Measurements around a Lodox Linear Slot Scanning X-Ray Unit
10:15 - 10:45	Tea / Coffee		
10:45 - 11:00	Session E Mr Frank Daniels	E1 Mrs Nomonde Tebekana	Quantification of room scatter component in the neutron laboratory of NMISA.
11:00 - 11:15		E2 Ms Ramakgahlela Thoka	Uniformity measurements for wide area reference sources
11:15 - 11:30		E3 Mr Vincent Maselesele	Pilot Study on the establishment of a national dosimetry audit programme Phase 1.
11:30 - 11:45		E4 Mr Sibusiso Jozela	Recent developments impacting traceability in dosimetry measurement in South Africa.
11:45 - 12:00		E5 Prof Ado van Rensburg CM Nuclear Systems	CM Nuclear Systems: Your one stop physics QA shop.
POSTER PRESENTATIONS 12:00 - 12:20		P9 Mrs Lelanie Nolan	Validation of radiation safety during administration of Lu-177 DOTATATE using the Tygerberg Hospital method
	P10 Ms Cheryl Johnson	Measurements on an Xray Irradiator	
	P11 Ms Monique du Toit	A new method to improve safety and radiation protection during administration of therapeutic radionuclides	
	P12 Mr Philip Beukes	Radiological safety assessment for the commissioning of a 3 MV Tandetron particle accelerator	
	P13 Mr Jonas Vuyisile	Evaluation of computed tomography protocols at Groote Schuur Hospital	
12:20 - 13:20	Lunch		
13:20 - 13:50	Session F Prof Debbie van der Merwe	F1 Prof Charles Shang	An Optimal Solution for Motion Management in Conformal Radiation Therapy - Clinical Experience with InCise MLC Equipped Cyberknife
13:50 - 14:05		F2 Mr Itumeleng Setilo	Cervical applicator source position check using the XR-RV3 radiochromic film and the MATRIX evolution 2-D array
14:05 - 14:20		F3 Mr Lourens Strauss	Inverse optimization for Image Guided Adaptive Brachytherapy in locally advanced cervix cancer
14:20 - 14:35		F4 Mr Sonwabile Ngcezu	Investigating nanodosimetric parameters in and around charged particle tracks
14:35 - 14:50		F5 Mr Jacobus Botha	Demonstration of a 3D graphical, interactive radiotherapy simulator for training and teaching
14:50 - 15:05		F6 Mr Ayron Rule	The commissioning and implementation of total body irradiation at Livingstone Hospital
15:05 - 15:25		F7 Ms Sabine Bernard	Achieving improvements in treatment planning through automation
15:25 - 15:55	Tea / Coffee		
15:55 - 17:30	SAMPS AGM		

	Wednesday 27 September		
08:00 - 08:15	Registration		
08:15 - 08:45	Session G Dr Alistair Hunter	G1 Prof Habib Zaidi	New horizons in multimodality molecular imaging (Zaidi)
08:45 - 09:00		G2 Mr Kelechi Sylvester	Hepatoprotective effects of Telfairia occidentalis Leaf Extract (TOE) in Radiation-induced Oxidative Stress Wistar Rats
09:00 - 09:15		G3 Ms Monique Engelbrecht	The interaction of 6 MV X-rays and p(66)/Be neutrons with spherical gold nanoparticles to induce cellular damage
09:15 - 09:30		G4 Mr Mogammad Hamid	Evaluation of the biological effectiveness of X-ray irradiation and epidermal growth factor receptor inhibition.
09:30 - 09:45		G5 Ms Jolene Helena	Radiosensitization capacities of a novel microtubule disruptor assessed on a deconstructed bone metastasis model
09:45 - 10:00		G6 Ms Elsie Nolte	A novel estradiol analogue delays deoxyribonucleic acid repair in triple negative breast cancer cells exposed to radiation in vitro
10:00 - 10:25	Tea / Coffee		
10:25 - 10:55	Session H Ms Monique du Toit	H1 Prof Cheng Saw	Advances in stereotactic body radiation therapy (SBRT)
10:55 - 11:10		H2 Mr Sechaba Maleka	A comparison of the effectiveness of targeted therapy and radiotherapy in human prostate cell lines
11:10 - 11:25		H3 Ms Angela Chinhengo	Evaluation of cellular sensitivity to split radiation dose and a combination of a single radiation dose and electromagnetic field exposure
11:25 - 11:40		H4 Mr Kelechi Sylvester	Effects of Telfairia occidentalis extract (TOE), Allium cepa extract (ACE) & Combined TOE/ACE Formulations in radiation-induced hepatotoxic wistar rats
11:40 - 11:55		H5 Ms Zakithi Msimang	What accuracies are we achieving in dosimetry for small static fields?
11:55 - 12:10		H6 Mr Itumeleng Setilo	Relative output factors for small photon fields measured using five different detectors
12:10 - 12:30		H7 Mr Markus Wenke (Raysearch labs)	RayStation - Innovations in Treatment Planning
12:30 - 13:30	Lunch / Meeting of the SAAPMB Council		
13:30 - 13:50	Session I Dr A Chamberlain	I1 Prof Ado van Rensburg(Sun Nuclear Corporation)	SunCHECK – Machine, patient and process QA.
13:50 - 14:05		I2 Mr Nicolaas van der Merwe	Mobile Hot Cell and Borehole Disposal Integration for High Activity Disused Radioactive Sealed Sources (DSRS) Conditioning and Final Disposal
14:05 - 14:20		I3 Mr Eskadmas Belay	Risk Analysis based on the Occurrence and Severity of Incidents from an Institutional Incident Learning System.
14:20 - 14:35		I4 Mrs Joline Lubbe	NMISA's secondary radioactivity calibration & measurement capabilities for nuclear medicine applications
14:35 - 14:50		I5 Mr Shaid Yusuf	Improvements of dose delivery at the superior and inferior borders during breast tangential in cobalt-60 external beam irradiation
14:50 - 15:00	Closing Address		
15:00 - 15:30	Tea / Coffee		
15:30 - 16:45	SAAPMB AGM followed by meeting of new SAAPMB Council		
18:00 - 23:00	Congress Dinner		