

SAIP2021

Monday 26 July 2021

Photonics: Biophysics - Potchefstroom Campus (11:30-13:00)

-Conveners: Pieter Neethling

time	[id] title	presenter
11:30	[117] Inhibition of Lung Cancer Migration and Invasion Using a Gold Nano Photosensitizer Conjugate.	CROUS, Anine
11:45	[24] Nuclear translocation of Map Kinase and release of basic fibroblast growth factor following photobiomodulation at 660 nm in diabetic wounded cells.	Mrs KASOWANJETE, Patricia
12:00	[27] FACILITATING iADMSC DIFFERENTIATION INTO NEURONAL CELLS BY PHOTOBIMODULATION USING VISIBLE AND NEAR-INFRARED WAVELENGTHS	Ms JANSEN VAN RENSBURG, Madeleen Clasina
12:15	[92] Effects of photodynamic therapy on A375 Melanoma cells using aluminium phthalocyanine photosensitizer	Ms MKHOBONGO, Bridgette
12:30	[56] Targeted photodynamic treatment of colorectal cancer	NKUNE, Nkune
12:45	[274] Effect of Gold Nanoparticle-Hypericin Mediated Photodynamic Therapy on breast Cancer Cells.	MOKOENA, Dimakatso

Photonics: Spectroscopy and Imaging - Potchefstroom Campus (15:00-16:30)

-Conveners: Gurthwin Bosman

time	[id] title	presenter
15:00	[142] Interaction between the photo-induced electric fields of the front and rear Si/SiO ₂ interfaces of thin silicon membranes probed by Electric Field Induced Second Harmonic (EFISH) generation	Dr STEENKAMP, Christine
15:15	[226] Light Sheet Microscope Development	BADRODIEN, Imraan
15:30	[232] Fluorescence spectroscopy of quantum dots in an optical tweezer	Ms KRITZINGER, Ané
15:45	[133] Investigating optically trapped spherical particles by Mie scattering.	ERASMUS, Anneke
16:00	[134] Experimental Validation of Novel Point Spread Function Models	Ms HOLINIRINA DINA MIORA, Ratsimandresy
16:15	[145] Comparison of different techniques for resonance ionization spectroscopy and report on progress towards its application on tin isotopes	Mr WASO, Frederick

Tuesday 27 July 2021

Photonics: Lasers and Quantum Communication - Potchefstroom Campus (11:30-13:00)

-Conveners: Angela Dudley

time	[id] title	presenter
11:30	[143] Dr	NAIDOO, Darryl
12:00	[173] On the interaction of structured light fields and the atmosphere	KLUG, Asher
12:15	[305] Purity and Dimensionality measurements using Werner States	Mr SLABBERT, Donovan NEETHLING, Pieter
12:30	[299] Amplification of structured light in end-pumped solid-state amplifiers	HARRISON, Justin
12:45	[278] EFFECTS OF ATMOSPHERIC TURBULENCE ON HERMITE GAUSSIAN MODES VIA CONVOLUTIONAL NEURAL NETWORKS	Mrs ADEWALE, Kemi

Photonics: Beam Shaping and Quantum Applications - Potchefstroom Campus (15:00-16:30)

-Conveners: Andrew Forbes

time	[id] title	presenter
15:00	[331] Stokes polarimetry performed with a digital micromirror device	DUDLEY, Angela
15:15	[230] ACCELERATING POLARIZATION STATES AND STRUCTURES	TAVARES BUONO, Wagner
15:30	[190] Generation of a Hybrid Mode Vector Beam	Ms DROZDOV, Alice Vadimovna
15:45	[258] Beam shaping applied to Spontaneous Parametric Down-Conversion (SPDC)	LOVEMORE, Michael
16:00	[235] Changing colour for detecting spatial structures of light	SEPHTON, Bereneice
16:15	[251] Quantitative measurements of the purity and dimensionality of high dimensional entangled states	Mr NAPE, Isaac

Thursday 29 July 2021

Photonics - Potchefstroom Campus (11:30-13:00)

Photonics - Potchefstroom Campus (15:00-16:30)

Friday 30 July 2021

Photonics - Potchefstroom Campus (11:30-13:00)