

SAIP2021

Monday 26 July 2021

Applied Physics - Potchefstroom Campus (11:30-13:00)

Applied Physics - Potchefstroom Campus (15:00-16:30)

Tuesday 27 July 2021

Applied Physics - Potchefstroom Campus (11:30-13:00)

time	[id] title	presenter
11:30	[78] Heat Transfer Improvement of a Thermal Interface Material for Heat Sink Applications Using Carbon Nanomaterials	MOUANE, Othmane NKADIMENG, Edward
11:45	[98] The Physics of Vacuum Arc Propulsion Systems	STANSELL, Paul
12:00	[188] Plasma Diagnostics of Miniaturised DC Glow Discharge Thruster Concept	PARBHOO, Maheen Prof. FERRER, Philippe
12:15	[245] Birefringence from digital phase-shifting measurements	SINGH, Keshaan
12:30	[267] Kinetics study of thiosulphate gold dissolution from primary leaching precipitates of refractory gold ores	Ms OWIREDU, Danielle
12:45	[281] NUCLEAR-MEDICAL TECHNIQUES IN 4IR DIAMOND MINING	Mr GIDEON BENTUM, Gideon Mr NEMAKHAVHANI, Thendo

Applied Physics - Potchefstroom Campus (15:00-16:30)

time	[id] title	presenter
15:00	[370] Non Specialist Presentation: Bridging scales in materials simulations - Quantum versus classical simulations	Prof. SEIFERT, Gotthard
15:30	[116] Solar irradiance in Gauteng during the 2020 COVID-19 lock-down – can we detect decreased aerosol loading?	Mr FOURIE, Charles H.
15:45	[138] A REVIEW ON MODELLING OF SOLAR FOOD DRYERS WITH THERMAL ENERGY STORAGE	Ms RAMOKALI, Masodi
16:00	[155] Optimization of processing parameters of dip coated CuO films for photoelectrochemical water-splitting	MOSALAKGOTLA, Mano
16:15	[316] An experimental study of a combined solar cooking and thermal energy storage system for domestic applications	Mr LENTSWE, Katlego

Thursday 29 July 2021

Applied Physics - Potchefstroom Campus (11:30-13:00)

time	[id] title	presenter
11:30	[179] In situ test results for a cavity solar receiver	FERRER, phil
11:45	[205] Injection dependent dark IR imaging of PV modules as an alternative to EL imaging for individual cell characterisation	Dr DIX-PEEK, Ross
12:00	[214] Performance analysis of thin-film Photovoltaic (PV) technologies in an embedded generation network	ROODT, Roelof
12:15	[386] Carbon Nanostructures beyond Graphene	SEIFERT , Gotthard
12:30	[152] Effect of methoxy functionalized group on the photocatalytic properties of diphenylaniline organic Chromophores	Dr ELEGBELEYE, ife Fortunate
12:45	[220] Computational study of electronic and optical properties of graphene/brookite (210) composite	Mr PHUTHU, Lutendo

Applied Physics - Potchefstroom Campus (15:00-16:30)

time	[id] title	presenter
15:00	[287] Density functional theory study of Ni doped NaMnO ₂ cathode material	RANWAHA, Tshifhiwa Steven
15:15	[55] Programming the load readout board micro-controllers used in the development of a Burn-In test bench for the ATLAS TileCal Phase-II Upgrade	NJARA, Nkosiphendule
15:30	[58] The characterization and functionality of the interface boards used on the burn-in test station for the ATLAS Tile Calorimeter Low Voltage Power Supplies phase II upgrade	LEPOTA, Thabo
15:45	[201] Spatial resolution in positron emission particle tracking (PEPT)	LEADBEATER, Thomas
16:00	[156] A new instrumental activation analysis facility at UCT	MHLONGO, Sizwe
16:15	[174] Enhancing PEPT: high fidelity analysis with augmented detection	Mr VAN DER MERWE, Robert

Friday 30 July 2021

Applied Physics - Potchefstroom Campus (11:30-13:00)

time	[id] title	presenter
11:30	[248] Characterising laser beams through turbulence using vector beams and a simple quantum trick	NAPE, Isaac
11:45	[121] Glancing Incidence X-ray Diffraction (GIXRD) analysis of induced nanocrystalline boron nitride (BN) on ion-implanted poly-crystalline hexagonal BN.	Mr LISEMA, Lehlohonolo
12:00	[153] Structural and optical properties of shape-dependent gold nanoparticles	Ms NGUNYULU, Tlangelani
12:15	[146] Density modified tracer particles for Positron Emission Particle Tracking (PEPT)	MIKE, Michael
12:30	[99] Development of ¹⁸ F Radiochemistry for Positron Emission Particle Tracking (PEPT)	Ms CAMROODIEN, Ameerah
12:45	[95] Development of a digital data acquisition system for neutron metrology	SOLE, Chloé