

SAIP2016

Tuesday 05 July 2016

Applied Physics (1): APPLIED1 - LT2 (10:00-10:40)

-Conveners: Ernest van Dyk

time	[id] title	presenter
10:00	[376] Power Budget Analysis of Passive Components along an Optical Fibre Link of a Frequency Dissemination System within the MeerKAT Telescope Array	Mr WASSIN, Shukree
10:20	[245] Effect of 1.712 GHz RF-Clock Signal Distribution on 10 Gbps 1550.89 nm VCSEL Based Transmission over Single Optical Fibre for Square Kilometre Telescope Array	Mr ISOE, George

Applied Physics (1): APPLIED1 - LT2 (11:10-12:10)

-Conveners: Phil Ferrer

time	[id] title	presenter
11:10	[176] Free-space Optical Communications through Turbulence	Mr COX, Mitchell
11:30	[276] Laser Effect on the RF Signal Stability for Clock Signal Distribution over Optical Fibre	Ms DLAMINI, Phumla
11:50	[384] Ambient noise tomography (Passive Seismic) to image the Cape-Karoo transition near Jansenville, Eastern Cape.	Mr BEZUIDENHOUT, Lucian

Applied Physics (1): APPLIED1 - LT2 (14:00-15:40)

-Conveners: Hartmut Winkler

time	[id] title	presenter
14:00	[58] The relationship between solar irradiance and cloud cover in Durban.	Mr GANYA, Elison
14:20	[271] Study of the performance of a Cadmium Telluride photovoltaic system	Ms DOBREVA, Petja
14:40	[435] Application of Ag nanocubes for efficiency enhancement in organic photovoltaic (OPV) devices	Mr KOTANE, Lesias
15:00	[131] Synthesis and characterization of Titanium dioxide nanotubes using electrochemical anodization system for solar cell application.	Mr LUPIWANA, Mpheleki
15:20	[307] Characterisation of the optical thermometry properties of a phosphor material	Mr ERASMUS, Lucas

Wednesday 06 July 2016

Applied Physics (1): APPLIED - 4B (09:40-10:40)

-Conveners: Frederik Vorster

time	[id] title	presenter
09:40	[77] Fast neutron radiography observation of water absorption through porous media	Mr DANIELS, Graham
10:00	[412] Residual stress measurements in leached polycrystalline diamond using X-ray diffraction and Raman spectroscopy techniques	Mr VHARETA, Maxwell
10:20	[317] Optimising GPU Integration into the ATLAS Trigger	Mr SACKS, Marc

Applied Physics (1): APPLIED - 4B (11:10-12:10)

-Conveners: Alan Matthews

time	[id] title	presenter
11:10	[247] ADC trigger board for the PROMETEO test-bench of the ATLAS Tile Calorimeter	Mr SPOOR, Matthew
11:30	[340] Facile synthesis of mesoporous NiCo(OH) ₂ /CNT composite for high performance energy storage application	Ms UGBO, Faith
11:50	[489] Evaluation of the Technical Feasibility and Economic Viability of Solar Heated underground fixed dome household size digesters suitable for Vhembe district of South Africa.	Mrs MANDADA, Sharon Ntuwiseni

Applied Physics (1): APPLIED - 4B (14:00-15:40)

-Conveners: Irvy (Igle) Gledhill

time	[id] title	presenter
14:00	[367] ESKOM, Irradiance and Sunny Skies - the physics of solar irradiance in South African conditions	Prof. WINKLER, Hartmut
14:20	[354] Solar power prediction model using quantum machine learning algorithm	Mr SENEKANE, Makhamisa
14:40	[186] Effect of Solar tracking on a PV system operating in the CSIR (South Africa)	Dr RORO, Kittessa
15:00	[410] The study of organic photovoltaics with Illumination intensity	Dr RANGANATHAN, Kamalakannan
15:20	[505] Electrical design of and reticulation to solar energy triggered microwave single mode system for sandstones processing: A feasibility study	Mr MARWALA, Tshilidzi

Thursday 07 July 2016

Applied Physics (1): APPLIED - LT2 (09:40-10:40)

-Conveners: Daniel Wamwangi

time	[id] title	presenter
09:40	[237] Solar water geysers - a South African perspective	Dr FERRER, phil
10:00	[232] HYDROGEN FUEL CELL STUDIES USING NEUTRON RADIOGRAPHY	Mr DE BEER, Frikkie
10:20	[509] Physics behind the life cycle and life cycle analysis of artisanal clay brick making	Mr TSHIYOYO, Madjer Monatshiebe

Applied Physics (1): APPLIED - LT2 (11:10-12:10)

-Conveners: Trevor Derry

time	[id] title	presenter
11:10	[193] Simple models for cytoskeleton	Prof. MÜLLER-NEDEBOCK, Kristian
11:30	[535] Division Meeting: APPLIED	Prof. VAN DYK, Ernest

Friday 08 July 2016

Applied Physics (1): APPLIED (09:40-10:40)

-Conveners: Ncamiso Khanyile

time	[id] title	presenter
09:40	[298] Activated carbon derived from tree bark biomass for high performance electrochemical capacitors	Dr MOMODU, Damilola
10:00	[402] Measurements of Atmospheric Carbon Dioxide in South Africa	Mr MUDAU, Azwitamisi
10:20	[20] Dose perturbation effects of unilateral Ti prosthesis in the dosimetry of 6 MV photon beam	Dr ADE, Nicholas

Applied Physics (1): APPLIED - LT2 (11:10-12:10)

-Conveners: Ernest van Dyk

time	[id] title	presenter
11:10	[527] NON-SPECIALIST LECTURE: Photonics Prototyping Facility	Dr NAIDOO, Darryl
11:50	[272] Effect of atmospheric turbulence on entangled photon field generated by partially coherent pump beam	Dr JOSHI, Stuti

Applied Physics (1): APPLIED (14:00-15:40)

-Conveners: Timothy Gibbon

time	[id] title	presenter
14:00	[319] Heterogeneous powders ID by means of fracture mechanics	Dr VIGLIATURO, Ruggero
14:20	[266] Efficiency measurement system for thermoelectric devices	Dr MARIOLA, Marco
14:40	[422] Spark Plasma Sintering of 2507 duplex stainless steel	Dr SULE, Richard
15:00	[448] Physical stability of ionic liquid polymers for the recovery of Se and Te from metallurgical aqueous solutions	Ms MOGOMETSI, Mpho
15:20	[12] Preparation and characterization of nanoporous carbon from expanded graphite for high energy density supercapacitor in aqueous electrolyte	Dr BARZEGAR, Farshad