SAIP2014

Tuesday 08 July 2014

Applied: Biophysics - D Les 103 (10:00-10:40)

-Conveners: Tjaardt Kruger

time [id]	title	presenter
	Investigation of carotenoid excited electronic states in the main plant t-harvesting complex (LHCII) via femtosecond pump-probe spectroscopy	Ms SINGH, Asmita
envi	7] Using single-molecule spectroscopic methods to investigate the ironmental dependencies of photoprotection in main plant light harvesting uplex.	Mr BOTHA, Joshua

Applied: Biophysics, Materials. - D Les 103 (11:10-12:10)

-Conveners: Frederik Vorster

time	[id] title	presenter
	[381] The role of low-energy fluorescence bands in the photoprotection of the major plant light harvesting complex.	Mr STOLTZ, Herman
	[370] Investigation of the involvement of specific carotenoids in the major plant light harvesting antenna during photoprotection	Mr PARADZAH, Alexander
11:50	[57] Preparation and characterization of poly(vinyl alcohol)/graphene composite nanofibers via electrospinning	Mr BARZEGAR, Farshad

Applied: Materials, Optics, Radiation. - D Les 103 (14:00-15:40)

-Conveners: phil ferrer

time	[id] title	presenter
14:00	[217] Thermal measurements on epoxy-expandable graphite composite material	Ms MODIBA, Fortunate
14:20	[335] An all printed LRC resonant circuit	Mr ASHEBIR, Getinet
14:40	[197] Using a VCSEL to Accurately Measure the Chromatic Dispersion in Single Mode Fibre by the Phase Shift Technique	Mr WASSIN, Shukree
15:00	[224] Simulation of the Egyptian 2nd Testing Research Reactor (ETRR-2) experimental benchmark in aid of verification and validation of the OSCAR-4 system.	Mr MASHAU, Maurice
15:20	[8] Microstructure evolution of rutheniumwith 6H-SiC interface under vacuum annealing and the implications for the performance of its Schottky contact for high temperature operating diodes.	Mr MUNTHALI, Kinnock Vundawaka

SAIP2014 / Programme Wednesday 09 July 2014

Wednesday 09 July 2014

Applied: Materials - D Les 103 (10:00-10:40)

-Conveners: Ernest van Dyk

time	[id] title	presenter
10:00	[26] Investigation of Fatigue-Type Processes in Polycrystalline Diamond Tools Using Raman Spectroscopy	Mr VHARETA, Maxwell
10:20	[432] X-ray reflectivity and surface Brillouin studies of rf magnetron sputtered NbN thin films	Mr KURIA, Jonah

Applied: Modelling - D Les 103 (11:10-12:10)

-Conveners: Indresan Govender

time [id] title	presenter
11:10 [56] Granular Flow Modelling of an Annular Shear	Cell Ms BREMNER, Sherry
11:30 [63] An investigation of granular rheology using Po	ositron Emission Particle Mr PATHMATHAS, Thirunavukkarasu
11:50 [64] Axial Segregation in Rotating Drum - Extension Model	n of the Basic Axial Diffusion Mr ELBASHER AHMED, Elbasher Mohamed

Applied: Optics, General. - D Les 103 (14:00-15:40)

-Conveners: Frikkie De Beer

time	[id] title	presenter
14:00	[141] Improving the laser brightness of a commercial laser system	Mr NAIDOO, Darryl
	[196] A single DFB laser for multilevel directly modulated signal for high speed optical fibre communication system	Mr CHABATA, Tichakunda Valentine
14:40	[354] Polarization alignment system for quantum key distribution	Mr MARIOLA, Marco
15:00	[46] Characterization of Corona Ionization Based Micro-thrusters	Mr WRIGHT, William
	[131] The Alan Cousins Telescope - A Multi-Purpose Automatic and Remote Access Telescope	Mr VAN HEERDEN, Pierre

SAIP2014 / Programme Thursday 10 July 2014

Thursday 10 July 2014

Applied: Renewable Energy - D Les 103 (10:00-10:40)

-Conveners: Frederik Vorster

time [id] title	presenter
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[278] The evaluation and simulated performance of the potential current produce from Multi-junction cells.	Mr SCHULTZ, Ross
[350] Simulation of Thermal Processes in a Hot Mirror Parabolic Trough Solar Receiver	Mr KALUBA, Victor Siuluta

Applied: APF Meeting, Modelling (11:10-12:10)

-Conveners: Frederik Vorster

time	[id] title	presenter

11:10	APF Meeting	
11:30	[425] Modelling Flow Phenomena in Time Dependant Store Release from Transonic Aircraft	Dr GLEDHILL, Irvy (Igle)

Applied: General - D Les 103 (14:00-15:40)

-Conveners: Trevor Derry; Indresan Govender

time	[id] title	presenter
14:00	[30] Non-Specialist Lecture: Optimization of the PEGASES plasma thruster	Dr LAFLEUR, Trevor
	[186] Characterisation of plume and thrust for the corona ionisation space propulsion system	Dr FERRER, Phil
15:00	[430] Discrete Element Models applied to Aggregate Properties in Pavement Design	Dr GLEDHILL, Irvy (Igle)
	[40] The design and development of a force comparator standard machine to provide national traceability in force measurement to industry.	Mr DLAMINI, Sipho

SAIP2014 / Programme Friday 11 July 2014

Friday 11 July 2014

Applied: Radiation - D Les 103 (10:00-10:40)

-Conveners: Joseph Asante

time [id] title									presenter
10.00									

[73] A new probe to detect multiple turn extraction of a beam bunch from Injector Cyclotron 1 at iThemba LABS.	Dr DE VILLIERS, John Garrett
[328] Research projects Utilising Penetrating Radiation: What to Expect when using Radiation Beams for Imaging	Mr DE BEER, Frikkie

Applied: Renewable Energy - D Les 103 (11:10-12:10)

-Conveners: Mmantsae Diale

time	[id] title	presenter
	[85] Analysis of the temperature models for the evaluation of global solar radiation in the coastal and interior regions of South Africa.	Dr MALUTA, Eric
	[320] Performance analysis of a 3.2 kWp grid-connected PV system in the Eastern Cape, South Africa	Dr OKELLO, Denis
	[283] Enhanced light harvesting and conversion efficiency by plasmonic Ag nanoparticles incorporated in organic photovoltaics	Dr RANGANATHAN, Kamalakannan