



# SAIP2013

## Tuesday 09 July 2013

### **DCMPM1: MSc for Award (10:30-12:10)**

-Conveners: Francis Dejene

time	[id] title	presenter
10:30	[50] Low-Energy Electronic Structure and Fermi Surface of the itinerant metamagnet Sr <sub>3</sub> Ru <sub>2</sub> O <sub>7</sub>	Ms SOHANFO NGANKEU, Arlette
10:50	[25] Investigation of Diffusion for the ion implanted Xenon in 6H-SiC	Ms THABETHE, Thabsile
11:10	[55] Modification of glassy Carbon under Strontium ion implantation	Ms ODUTEMOWO, opeyemi
11:30	[77] Luminescent properties of pulse laser deposition (PLD) thin films of SrGa <sub>2</sub> S <sub>4</sub> :Ce <sup>3+</sup> coated with metallic TaSi <sub>2</sub>	Ms MOLEME, Pulane
11:50	[133] Relative stability of graphene and carbon nanotube structures	Ms SHAI, MOSHIBUDI

### **DCMPM1: MSc for Award (14:10-15:10)**

-Conveners: Cinzia Ceppek

time	[id] title	presenter
14:30	[168] Synthesis of NIS nanostructures by microwave-assisted hydrothermal technique	Ms LINGANISO, Ella
14:50	[148] The effects of substrate temperature on the structure, morphology and photoluminescence properties of pulsed laser deposited Y <sub>3</sub> (Al, Ga) <sub>5</sub> O <sub>12</sub> :Ce <sup>3+</sup> nano thin films.	Mr DLAMINI, Sipho

### **DCMPM1 (15:40-16:40)**

-Conveners: Max Chirwa

time	[id] title	presenter
15:40	[443] Computational modelling studies of structural, electronic and mechanical properties of palladium sulphide	Ms MASENYA, Mamogo
16:00	[474] Computer Simulation Study Of Manganese Dioxide Nanotubes	Mr TSHWANE, DAVID
16:20	[444] Spectral selectivity of doped Zinc and Aluminium oxide thin films prepared by spray pyrolysis for Solar Energy applications	Mr SIMPEMBA, Prosperity C.

# Wednesday 10 July 2013

## DCMPM1: MSc for Award (09:00-10:00)

-Conveners: Vijay Kumar

time [id]	title	presenter
09:00	[248] Advanced Power Sources for Electronic Devices and Electric Vehicles.	Mr MASEDI, Cliffton
09:20	[198] High temperature conductance fluctuations and Tomonaga - Luttinger liquid behaviour of aligned metallic SWCNT ropes.	Ms NCUBE, Siphephile

## DCMPM1: MSc for Award (10:30-11:50)

-Conveners: Vinod Kumar

time [id]	title	presenter
10:30	[508] Analysis of controlled structural disorder in few layer graphite and graphene	Ms SANDERS, Kirsty
10:50	[517] Electronic Transport Properties of Silicon-germanium Nanowires	Mr ASLAN, Tahir
11:10	[515] Magnetic Properties of CoFe <sub>2</sub> O <sub>4</sub> /CoFe <sub>2</sub> nanocomposites reduced by activated charcoal in argon atmosphere	Mr EZEKIEL, Itiegbeoyogene
11:30	[263] Mott's Variable Range Hopping Model: an Easy Method for Identification of Phase Transition	Mr AKANDE, Amos

## DCMPM1: MSc for Award (13:50-15:10)

-Conveners: Japie Engelbrecht

time [id]	title	presenter
14:10	[37] The Electrical Transport Properties of Bulk Nitrogen Doped Carbon Microspheres	Mr WRIGHT, William
14:30	[587] DIVISION MEETING	

## DCMPM1 (15:40-16:40)

-Conveners: Hafiz Abdallah

time [id]	title	presenter
15:40	[476] <i>Ab initio</i> simulation study of spinel LiMn <sub>2</sub> O <sub>4</sub> and nickel doped LiMn <sub>2</sub> O <sub>4</sub>	Mr MALATJI, kemeridge Tumelo
16:00	[481] Computer simulation studies of SPINEL LiTi <sub>2</sub> O <sub>4</sub>	Ms LEDWABA, Raesibe Sylvia
16:20	[480] Phase stability and martensitic transformation of TiPt shape memory alloys	Mr MASHAMAITE, Mordecai

# Friday 12 July 2013

## DCMPM1 (09:00-10:00)

-Conveners: Joseph Asante

time [id]	title	presenter
09:00	[491] Computational study of anatase TiO <sub>2</sub> nanotube as an anode material for lithium ion batteries	Mr GANDAMIPFA, Mulatedzi
09:20	[483] DFT+U study of Li adsorption on (110) $\beta$ -MnO <sub>2</sub> surface	Ms MAENETJA, khomotso
09:40	[564] Electronic and Optical properties of Si_3Al(P, As)	Dr AZEMTSA DONFACK, Hermann

## DCMPM1 (10:30-11:50)

-Conveners: Moise Bertin Tchoula Tchokonte

time [id]	title	presenter
10:30	[30] NON-SPECIALIST: Status of Aberration-corrected Transmission Electron Microscopy in South Africa	Prof. NEETHLING, Johannes
11:30	[486] Computational Modelling Study of nickel-rich pentlandite {111} surface	Mr MKHONTO, Peace Prince