

SAIP2016

Tuesday 05 July 2016

Division for Physics of Condensed Matter and Materials (1): PhD Orals for Award - LT1 (10:00-10:40)

-Conveners: Malili Matshaba

time	[id] title	presenter
10:20	[109] Beyond Lithium-Ion Batteries: A Computational Study on Advanced Lithium – Sulphur Battery	Mr MASEDI, CLIFFTON

Division for Physics of Condensed Matter and Materials (1): PhD Orals for Award - LT1 (11:10-12:10)

-Conveners: Mmantsae Diale

time	[id] title	presenter
11:10	[124] Evaluation of sputtering-induced surface roughness of polycrystalline Ni/Cu multilayers thin films with AES and ToF-SIMS depth profiling	Mr YAN, XinLiang
11:30	[127] Ultrafast Excited state dynamics of a direct hetroarylation derived bithiophene-isoindigo copolymer and application in inverted ITO free solar cells.	Mrs TEGEGNE, Newayemedhin
11:50	[182] Synthesis of ZrC coatings in a vertical-wall CVD system	Ms BIIRA, Saphina

Division for Physics of Condensed Matter and Materials (1): PhD Orals for Award - LT1 (14:00-15:40)

-Conveners: Francis Dejene

time	[id] title	presenter
14:00	[268] Interactions of xanthates and dithiophosphate on (110) nickel-rich pentlandite ($\text{Fe}_{4}\text{Ni}_{5}\text{S}_{8}$) mineral surface	Mr MKHONTO, Peace
14:20	[274] Colloidal InSe nanostructures: effect of morphology on their chemical sensitivity to methanol and formaldehyde fumes	Ms AIRO, Mildred
14:40	[329] Combustion synthesis and characterization of Eu^{3+} doped $\text{Ba}_5(\text{PO}_4)_3\text{OH}$ phosphors	Ms MOKOENA, Puseletso Pricilla
15:00	[338] Structural and optical properties of Holmium doped $\alpha\text{-Fe}_2\text{O}_3$ nanoparticles	Ms MATHEVULA, Langutani
15:20	[397] The SCC-DFTB study of H_2O interaction with TiO_2 supported Pd catalyst	Ms CHUMA, Moyahabo Hellen

Wednesday 06 July 2016

Division for Physics of Condensed Matter and Materials (1): Non-Specialist Lectures - LT1 (09:40-10:40)

-Conveners: Japie Engelbrecht

time	[id] title	presenter
09:40	[525] NON-SPECIALIST LECTURE: Optical Fibre Communication: Silica Information Super-Highways	Dr GIBBON, Timothy
10:20	[107] Characterization of inclusions and defects in natural zirconia	Prof. LEE, Mike

Division for Physics of Condensed Matter and Materials (1): PhD Orals for Award - LT1 (11:10-12:10)

-Conveners: Mike LEE

time	[id] title	presenter
11:10	[398] Characterization of elastic constants and electronic property of diamond-like carbon films.	Mr MBIOMBI, wilfred
11:30	[432] Optical and electronic properties of silicon nanowires fabricated by Metal Assisted Chemical Etching	Mr KHANYILE, Sfiso
11:50	[478] Tuning the Energetic Driving Force of P3HT-ZnO heterostructures for Enhanced Electron Transfer in Organic PV solar cells	Mr KABONGO, GUY LEBA

Division for Physics of Condensed Matter and Materials (1): PhD/MSc Orals for Award - LT1 (14:00-15:40)

-Conveners: Craig Comrie

time	[id] title	presenter
14:00	[502] Modelling of Pyrite ($\text{FeS}_{2\text{}}$) surfaces and adsorption of dithiophosphate (DTP) onto pyrite surface.	Mr MULAUDZI, Masilu Godfrey
14:20	[395] A study into the rate of photo-bleaching undergone by radiation damaged plastic scintillators	Ms JIVAN, Harshna
14:40	[47] Investigation of Luminescence Properties of Dy^{3+} Doped different Alkaline based White-light emitting Phosphors	Dr AVULA, Balakrishna
15:00	[531] Division Meeting: DPCMM	Prof. ENGELBRECHT, Japie

Thursday 07 July 2016

Division for Physics of Condensed Matter and Materials (1): MSc Orals for Award - LT1 (09:40-10:40)

-Conveners: Richard Harris

time	[id] title	presenter
09:40	[400] Room temperature CH ₄ gas sensor based on Au loaded ZnO nanorods: The effect of Au loading concentration on sensing properties.	Ms SHINGANGE, Katekani
10:00	[405] Effect of Hydrochloric Acid on the Structure, Defect States and Gas Sensing Properties of TiO ₂ Nanotubes by Hydrothermal Method	Mrs TSHABALALA, Zamaswazi
10:20	[492] Sol-gel Synthesis and Characterization studies of Er ³⁺ doped TiO ₂ nanoparticles	Mr TALANE, Tsholo

Division for Physics of Condensed Matter and Materials (1): MSc Orals for Award & General Orals - LT1 (11:10-12:10)

-Conveners: Hendrik Swart

time	[id] title	presenter
11:10	[100] Formation of a Thin Film of AB compound Layer at a Low Irradiation Temperature under the Influence of Radiation Induced Interstitial.	Mr AKINTUNDE, Samuel
11:50	[373] Computational modelling of sulphides mineral (FeS ₂)	Dr LETSOALO, Thabo

Friday 08 July 2016

Division for Physics of Condensed Matter and Materials (1): General Orals - LT1 (09:40-10:40)

-Conveners: Max Chirwa

time	[id] title	presenter
09:40	[34] Exceptionally Crystalline TiO ₂ Mesocrystals with Enhanced Light Harvesting Characteristics for solar energy conversion	Dr HEGAZY, Aiat
10:00	[39] Structural and luminescence properties of sol-gel derived BaMg ₂ Al ₆ Si ₉ O ₃₀ : Eu ²⁺ +nanophosphors	Dr KUMAR, Ashwini
10:20	[45] NIR quantum-cutting OF Pr ³⁺ and Yb ³⁺ Codoped Fluoride crystal	Dr YAGOUB, Mubarak

Division for Physics of Condensed Matter and Materials (1): General Orals - LT1 (11:10-12:10)

-Conveners: Shunmugam Ramsamy Naidoo

time	[id] title	presenter
11:10	[72] Spectroscopic investigation of Tm ³⁺ containing Lithium borate glasses	Dr RAMTEKE, Durgaprasad
11:30	[132] Ferromagnetism in magnetic 4f-systems	Dr NOLTING, Volkmar
11:50	[206] Effect of calcination on structural and magnetic properties of nickel chromite	Dr MOHANTY, Pankaj

Division for Physics of Condensed Matter and Materials (1): General Orals - LT1 (14:00-15:40)

-Conveners: Volkmar Nolting

time	[id] title	presenter
14:00	[279] Simonkolleite nano-platelets: Synthesis and temperature effect on hydrogen gas sensing properties	Dr SITHOLE, Joseph
14:20	[379] Ion beam modification of diamond to DLC: A SBS, Raman and HRTEM study.	Prof. NAIDOO, Shunmugam Ramsamy
14:40	[452] Electrical characterisation of defects induced in GaN by electron beam exposure	Mr NGOEPE, Phuti
15:00	[455] Sustained pairing frees dipolar traits and the circular current's own magnetic dipolar nature	Dr CHIRWA, Max
15:20	[476] Search for dilute magnetism in <i>d</i> -doped III-Nitrides - Results from Mössbauer Spectroscopy	Dr MASENDA, Hilary