

SAIP2015

Tuesday 30 June 2015

DPCMM: PhD for award (10:00-10:40)

-Conveners: Odireleng Ntwaeborwa

time [id]	title	presenter
10:00	[52] Why MnO ₂ is used as a catalyst in Li-air batteries and not TiO ₂	Ms MAENETJA, Khomotso
10:20	[60] Study of the interdiffusion in Ni/Cu multilayer thin films by Auger electron spectroscopy depth profiling	Mr YAN, XinLiang

DPCMM: M.Sc. for Award (10:00-10:40)

-Conveners: JJ (Koos) Terblans

time [id]	title	presenter
10:00	[8] Electrodeposited Ni Nanowires-Track Etched P.E.T. Composites As Selective Solar Absorbers	Mr LUKHWA, Rendani
10:20	[27] Evolutionary algorithm simulation study of Manganese dioxide nanoclusters	Mr MASOGA, Wesley

DPCMM: M.Sc. for award (11:10-12:10)

-Conveners: JJ (Koos) Terblans

time [id]	title	presenter
11:10	[40] Computational Modelling Studies of Platinum Telluride Minerals	Mr SELOWA, Phatholo
11:30	[55] Synthesis, structural and optical characterisation of cobalt (Co) and indium (In) co-doped ZnO nanoparticles	Mr MASWANGANYE, Mpho
11:50	[84] Comparison of optical and luminescence properties of as prepared and annealed ZnO nanoparticles synthesized using sol-gel method.	Mr UNGULA, Jatani

DPCMM: PhD for award (11:10-12:10)

-Conveners: Odireleng Ntwaeborwa

time [id]	title	presenter
11:10	[64] Selenization dependence of morphological, structural and electrical properties of Cu ₂ ZnSn(S,Se) ₄ thin films deposited by one-step sputtering	Dr YIHUNIE, Moges Tsega
11:30	[85] Exciton energies of chalcopyrites AgAlX ₂ (X=S,Se,Te) from GW and BSE calculations	Mr DONGHO NGUIMDO, Guy Moise
11:50	[98] Structural and magnetic properties of NiFe ₂ O ₄ /NiFe bi-magnet and NiFe nano-alloy synthesized from thermal reduction of NiFe ₂ O ₄	Mr EZEKIEL, ITEGBEYOGENE

DPCMM: PhD for award (14:00-15:40)

-Conveners: Mmantsae Diale

time	[id] title	presenter
14:00	[103] <i>Ab</i>-<i>initio</i> studies of Tm³⁺ interstitial defects in Germanium (Ge) using Hybrid Functional HSE06	Mr IGUMBOR, Emmanuel
14:20	[113] Electronic and Optical Properties of monolayer MX 2 M= Zr, Hf; X= S, Se from first principles calculations	Mr ABDULSALAM, Mahmud
14:40	[146] Formation of chemical compound layer due to reaction-diffusion process	Mr AKINTUNDE, Samuel
15:00	[176] Computer simulation study of water adsorption on {110} surface of nickel-rich pentlandite (Fe₄Ni₅S₈) mineral	Mr MKHONTO, Peace
15:20	[183] Ferromagnetism in Chromium-doped Rutile, Anatase and Brookite phases of Titanium dioxide	Ms MULWA, Winfred Mueni

DPCMM: M.Sc. for award (14:00-15:40)**-Conveners: Walter Meyer**

time	[id] title	presenter
14:00	[108] Hydrogenation of Ti6Al4V alloy and Commercially Pure (CP) Ti	Ms MAZWI, Sive
14:20	[154] First principle study of Xanthate and Diethyldithiophosphate adsorption on PtS (010) surface	Ms MASENYA, Mamogo
14:40	[182] Phosphorescence of phototransferred thermoluminescence in annealed synthetic quartz	Mrs KOMBE, Elizabeth Fende Midiki nee Atang
15:00	[233] Multi-Dimensional Analysis of Precipitates in a 12% Cr Steel	Ms DEYZEL, Geneve
15:20	[278] Surface Brillouin Scattering Characterization of Bismuth Ferrite Thin Films	Mr AYELE, Fekadu

Wednesday 01 July 2015

DPCMM: M.Sc. for award (09:40-10:40)

-Conveners: Johannes Neethling

time [id]	title	presenter
09:40	[297] Armorphization and Recrystallization of spinel LiMn ₂ O ₄ nano-architectures	Ms LEDWABA, Raesibe Sylvia
10:00	[314] Thermodynamic and mechanical stability studies of Zr-Nb(Co) alloys	Mr MALEBATI, Magoja Martinus
10:20	[353] Density functional theory study of methane dissociation over Pd nanoclusters	Ms CHUMA, Moyahabo Hellen

DPCMM: M.Sc. for award (11:10-12:10)

-Conveners: Johannes Neethling

time [id]	title	presenter
11:10	[441] Investigation of the annealing behaviour of the donor-vacancy complex in alpha-particle irradiated Ge.	Mr BARNARD, Willem

DPCMM: PhD for award (14:00-15:40)

-Conveners: Michael Hayes

time [id]	title	presenter
14:00	[188] Simultaneous substitution of Ba, Mn and Co into Fe ₃ O ₄ spinel structure: Magnetic and electrochemical sensing properties of the synthesized nanoparticles	Mr OSMAN, Nadir
14:20	[223] Dependence of the photo-ionization cross-section of α-Al ₂ O ₃ :C on the measurement temperature	Mr NYIRENDI, Angel
14:40	[239] Computational Study on Advanced Lithium – Sulphur Battery for Future Portable Energy Storage	Mr MASEDI, Cliffton

Thursday 02 July 2015

DPCMM: DPCMM1 (09:40-10:40)

-Conveners: Andrew Venter

time [id]	title	presenter
09:40	[152] Embedding of noble metal nanoparticles and study of optical and photoluminescence properties induced by ion irradiation	Dr PRAKASH, Jai
10:00	[210] Investigation of nuclear reactor materials using modern electron microscopy techniques	Prof. NEETHLING, Johannes
10:20	[70] The PITSI neutron powder diffractometer at the SAFARI-1 Research Reactor	Ms SENTSHO, zeldah

DPCMM: DPCMM1 (11:10-12:10)

-Conveners: Hendrik Swart

time [id]	title	presenter
11:10	[463] Division Meeting	Prof. SWART, Hendrik

DPCMM: DPCMM1 (14:00-15:40)

-Conveners: Hendrik Swart

time [id]	title	presenter
14:40	[29] Role of defects in the emission of undoped and doped ZnO thin film prepared by pulsed laser deposition	Dr KUMAR, Vinod
15:00	[368] NON-SPECIALIST LECTURE: Neutron diffraction facilities MPISI and PITSI at SAFARI-1	Prof. VENTER, Andrew

DPCMM: DPCMM1 (16:10-17:10)

-Conveners: Francis Dejene

time [id]	title	presenter
16:10	[381] Characterisation of traditional ceramic materials used in the Sotho culture (South-Africa) for clay pot making	Ms HLEKANE, Phindile
16:30	[300] SBS observation of higher order resonances in annealed, carbon implanted CVD	Dr MATHE, Bhekumusa
16:50	[440] An ab-initio study of the metastability of the boron-vacancy (B-V) complex in silicon.	Dr MEYER, Walter

Friday 03 July 2015

DPCMM: DPCMM1 (09:40-10:40)

-Conveners: Simon Connell

time [id]	title	presenter
09:40	[114] Effect of pH on ZnO nanostructures prepared by chemical bath method	Dr KOAO, Lehlohonolo
10:00	[125] Developing Iron Oxide Nanoparticle Biosensors through Simulation and Modelling	Mr HARRIS, Richard
10:20	[162] Optimization of a small-angle neutron scattering instrument using the VITESS model	Mr TJEBANE, Tjatji

DPCMM: DPCMM1 (11:10-13:10)

-Conveners: Aletta Prinsloo

time [id]	title	presenter
11:10	[15] Collective Electronic Excitations in Ferromagnetic Metals	Dr NOLTING, Volkmar
11:30	[16] Study of Electrical Conductivity of Pr ³⁺ Containing Lithium Borate Glasses by Impedance Spectroscopy	Dr RAMTEKE, Durgaprasad
11:50	[252] Scanning probe microscopy in material science and biology	Dr URGESSA, Zelalem N.