

SAIP 2011

Thursday 14 July 2011

Poster2: NPRP, Theoretical, APSS, LOS, Education - Asteria (17:00-19:00)

-Conveners: Patrick Woudt; Frederik Vorster; Frederik Scholtz; Erich Rohwer; Sam Ramaila; Simon Mullins; Andrew Collier

[id] title	presenter	board
[346] Elemental magnetic vector charges linked to zero outward magnetic flux from any surface enclosing non-dipolar magnetic sources	Dr CHIRWA, Max	
[347] Ultrafast Transient Absorption measurements on Indoline D149 Dye	Mr ROHWER, Egmont	
[348] The pair-model of monopolar and dipolar moments of elemental electric scalar and magnetic vector charges	Dr CHIRWA, Max	
[297] The effect of ventilation on the thermal performance of an energy efficient house	Mr MTHIMUNYE, Thabiso Vincent	
[196] Generation of a Laguerre-Gaussian TEM01 mode in a monolithic microchip laser	Mr NAIDOO, Darryl	
[192] Analysis of aberrations generated in aerodynamic random media using computational fluid dynamics	Mr MAFUSIRE, Cosmas	
[271] Mathematical Modeling of a Concentrator-Diffuser Wind Energy system	Mr MASUKUME, Peace-Maker	
[274] Batch anaerobic co-digestion of cow dung and donkey manure	Mr MUKUMBA, Patrick	
[444] Ion irradiation effects on the formation of metal nanoparticles in crystals	KOZAKIEWICZ, Anna	
[33] Vanadium Dioxide Nanoplatelets Based nanocomposites for IR Solar Radiation Modulation	Ms SIMO, Aline	
[31] A Diagnostic 'tool' to prevent the consequences of material failure	Dr SIKAKANA, Ike	
[36] Influence of solvent effects on Qy transitions in chlorophyll	Dr SMIT, Jacoba	
[6] Testing the Cosmic Ray-Lightning Connection Hypothesis	COLLIER, Andrew	
[98] Atmospheric turbidity over Gauteng	Mr SETHABANE, Thabang	
[91] Towards Scientific Establishment and Validation of Quality Standards for Digital Thermal Neutron Imaging	Mr RADEBE, Mabuti Jacob Radebe	
[92] The extent of the chorus observed at Marion Island	Dr COLLIER, Andrew	
[94] Computational study of some Carbon modification	Ms SHAI, MOSHIBUDI	
[230] The Effects Of High Atomic Material On Photon Beams At The Interface	Dr SITHOLE, Enoch	
[145] Polarization Encoded QKD in Fibre	Ms PILLAY, Sharmini	
[29] Evaluation of WC-9Co-4Cr laser surface alloyed coatings on stainless steel	Mr OBADELE, BABATUNDE	
[20] Clay/sawdust porous pots for water treatment	Dr VARKEY, Joseph A	
[403] Schottky contact on GaN	Dr DIALE, Mmantsae	
[374] Ionospheric response during the geomagnetic storm events on 24-27 July 2004: Long-duration positive storm effect	Mr NGWIRA, Chigomezoyo	

[377] Performance monitoring of a downdraft System Johansson Biomass Gasifier™	Dr MAMPHWELI, Sampson	
[393] An investigation of high velocity flows in HF radar data during northward interplanetary magnetic field, non-substorm intervals	Mr MTUMELA, Zolile	
[397] Investigating the effect of atmospheric dynamics on HF propagation	Ms ATHIENO, Racheal	
[396] Simulation of a pencil proton beam in a water phantom using various monte carlo codes.	Ms JACOBS, Carmen	
[85] Effect of carbon modification on the electrical, structural and optical properties of TiO2 electrodes and their performance in lab-scale dye sensitized solar cells	Mr TAZIWA, Raymond	
[7] Trajectories of electrons in a realistic model of the Earth's magnetic field	NEMAIR, Mahassin	
[249] Stellar Masses of Star Forming Galaxies in Galaxy Cluster	Mr RANDRIAMAMPANDRY, Solohery	
[175] Femtosecond amplifier pulse characterization: FROG and shaper-assisted techniques	Mr HENDRIKS, Attie	
[171] Efficiency Dependence of Tm ³⁺ -Doped Silica Triple-Clad Fiber Laser	Mr NDEBEKA, Wilfrid	
[182] An automated temperature control model for a well-mixed biomass reactor	Mr PAGONA, FELIX	
[15] Metal-Semiconductor Ohmic Contacts: An ab initio Density Functional Theory Study of the Structural and Electronic Properties of Metal-Diamond (111)-(1x1) Interfaces.	Mr MOTOCHI, Isaac	
[324] A Magnetic Field Study Using Polarized Dust Emission of Nearby Starburst Galaxies	Dr LEEUW, Lerothodi	
[328] Spectral response as a diagnostic tool for PV and PC solar cells	Mr MALAPE, Maibi	
[75] Daytime modeling of VLF radio waves over land and sea, comparison to DEMETER satellite data.	Dr COLLIER, Andrew	
[314] Search for the Standard Model Higgs boson to WW with a hadronic tau channel	Prof. CONNELL, Simon	
[74] Development of a laser cooling and magneto-optical trapping experiment for Rubidium 87 atoms	Mr RIGBY, Charles	
[362] Ultraluminous X-ray Sources in Nearby Galaxies	Mr FOSTER, Deatrick	
[410] Direct water cooling effect on a photovoltaic module	Mr MTUNZI, Busiso	
[412] Variability of methanol maser in the massive star formation regions	Mr MASWANGANYE, jabulani Paul	
[413] Observations of the 22GHz Water maser in the source Orion KL	Ms OTTO, Sunelle	
[318] Space Weather Prediction and Forecast in South Africa	Ms TSHISAPHUNGO, Mpho	
[3] Simulating chorus generation via Particle-in-cell simulations	Ms VAN ZYL, Marlie	
[366] Investigating the thermal performance of a hybrid PV solar system	Dr SIMON, Michael	
[382] Radiation Shielding calculations using MCNPX transport code for cost optimization of the shielding material to be used in the new cyclotron vault at iThemba Labs	Mr NGCOBO, Zipho	
[168] Current Status of Ultrafast Electron Diffraction at the Laser Research Institute	Ms BOSHOFF, Ilana	
[254] Cross phase modulation induced depolarization of a probe signal and its impact on polarization mode dispersion compensators	Dr GIBBON, Timothy	

[162] Atomic processes in gaseous nebulae	Ms PROZESKY, Andri	
[214] Magneto-optical trap - First step towards BEC	Ms SEMONYO, Malehlohonolo	
[260] Hi-speed Random Number Generator	Mr OLATINWO, Adedayo	
[59] Enhancement of hydrogen production using biomass gasification process	Dr MAMPHWELI, Sampson	
[110] Micromachining of optical fibers with a Nd:YAG laser at 532 nm using a spatial filter	Dr SCHMIEDER, Diethelm	
[253] Super star clusters in nearby Luminous Infrared Galaxies	Ms RANDRIAMANAKOTO, Zara	
[422] Intra-cavity beam control: a comparison of spatial light modulators and adaptive mirrors	Mrs BURGER, Liesl	
[308] Developing a laser ionization test bench for radioactive beams	Mr MAKHATHINI, Lucky	
[221] Identification of isotopes using time differential, event-by-event gamma spectroscopy	Mr COOK, Martin	
[154] X-ray Timing and Spectral Analysis of the Propeller Driven Pulsar-like White Dwarf AE Aquarii	Mr ORURU, Bosco	
[399] Radon from building materials	Ms THELEDI, RABECCA RAMOKONE	
[46] KIC Rumpel, the binary system with eclipses and δ Scuti pulsations	Mr MIDDLETON, Christopher	
[41] Simple Pendulum: A first year students' dilemma.	Mr PHAGE, Itumeleng	
[5] PLASMON: Data Assimilation of the Earth's Plasmasphere	COLLIER, Andrew	