



# SAIP2016

## Tuesday 05 July 2016

### Division for Physics of Condensed Matter and Materials (2): MSc Orals for Awards - 4B (10:00-10:40)

**-Conveners: Hasani Chauke**

| time  | [id] title   | presenter             |
|-------|--|-----------------------|
| 10:00 | [91] Structural and optical studies of cobalt and indium simultaneously doped zinc oxide nanopowders prepared using high energy ball milling technique | Ms MANAMELA, Mahlatse |
| 10:20 | [121] CZTS solar cell: CZT precursor layer deposition by electron beam evaporation and electroplating  | Mr FOURIE, Antonie    |

### Division for Physics of Condensed Matter and Materials (2): MSc Orals for Award - 4B (11:10-12:10)

**-Conveners: Walter Meyer**

| time  | [id] title  | presenter            |
|-------|---|----------------------|
| 11:10 | [136] Gas sensing applications of Cobalt and Indium double-doped ZnO nanoparticles prepared by sol-gel method | Mr MASWANGANYE, Mpho |
| 11:30 | [500] Investigation of the isochronal annealing profiles of the E centres in n-type silicon                   | Mr BARNARD, Abraham  |
| 11:50 | [264] Deep Level Transient Spectroscopy of GaSb/GaAs Quantum Dots   | Ms VENTER, Danielle  |

### Division for Physics of Condensed Matter and Materials (2): MSc Orals for Award - 4B (14:00-16:00)

**-Conveners: André Venter**

| time  | [id] title  | presenter                        |
|-------|---|----------------------------------|
| 14:00 | [240] Atomistic simulations studies on the structural change in $\text{Li}_{x}\text{TiO}_{2}$ (x: 2.82, 3.76, 6, 57) at high temperatures for energy storage in Lithium-ion Battery Applications. | Ms RIKHOTSO, B.N                 |
| 14:20 | [209] Understanding proton induced radiation damage in plastic scintillators using electron paramagnetic resonance and DFT modelling  | Mr PELWAN, Chad                  |
| 15:00 | [309] The photocatalytic degradation study of Rhodamine B using zinc oxide as an alternative catalyst to titanium dioxide   | Mr NKABINDE, Siyabonga           |
| 15:20 | [353] Boundary Current Response in $\text{Ba}_{0.34}\text{K}_{0.64}\text{Fe}_2\text{As}_2$ Single Crystals Probed by Non-Resonant Microwave Absorption.   | Ms RAMASHITJA, Tshiwela Caroline |

# Friday 08 July 2016

## Division for Physics of Condensed Matter and Materials (2): General Orals - 4B (09:40-10:40)

**-Conveners: Ezekiel Omotoso**

| time  | [id] title  | presenter                      |
|-------|---|--------------------------------|
| 09:40 | [37] Effect of Annealing Temperature on Optical and Electrical Properties of ZnO Thin Films Synthesized by Sol-Gel Method | Mr TRILOK KUMAR PATHAK, Trilok |
| 10:00 | [42] Thermal effects on the plasmonic properties of Ag embedded glass based metamaterials                                 | Dr KUMAR, Promod               |

## Division for Physics of Condensed Matter and Materials (2): General Orals - 4B (11:10-12:10)

**-Conveners: Promod Promod Thakur**

| time  | [id] title  | presenter           |
|-------|---|---------------------|
| 11:10 | [112] Dynamics of several ultra-cold particles in a double-well potential   | Dr SOWINSKI, Tomasz |
| 11:30 | [187] Internal quantum efficiency and energy transfer processes in Ce <sup>3+</sup> co-doped ZrO <sub>2</sub> : Eu <sup>3+</sup> nanorods | Dr AHEMEN, Iorkyaa  |
| 11:50 | [235] Effect of thermal annealing on the electrical characteristics of Au/Ni Schottky contacts on high doped n-type 4H-SiC                | Dr OMOTOSO, Ezekiel |

## Division for Physics of Condensed Matter and Materials (2): Division for Physics of Condensed Matter and Materials (2) - 4B (14:00-15:00)

**-Conveners: Japie Engelbrecht**

| time  | [id] title   | presenter           |
|-------|--|---------------------|
| 14:00 | [74] RBS-Channelling analysis into the effect of thermal annealing on GeSn strained layers | Prof. COMRIE, Craig |
| 14:20 | [119] Theory for diffusivity measurements when the temperature is ramped linearly          | Prof. THERON, Chris |