# SAIP2012

# Tuesday 10 July 2012

### Education **(11:00-12:20)**

  **-Conveners: Deena Naidoo**

| time | [id] title | presenter |
|------|-----------|-----------|
| 11:00 | [51] An informal teaching of light and lasers through the CSIR-NLC PULSE programme | Mr SHIKWAMBANA, Lerato |
| 11:20 | [41] Curriculum reform – Does it provide the divide between developed and developing countries? | Dr RAMAILA, Sam |
| 11:40 | [46] The African School of Fundamental Physics and its Applications | Dr ASSAMAGAN, Ketevi Adikle |
| 12:00 | [111] Making problem solving in physics explicit | Dr HERBERT, Mark |

### Education **(14:30-15:50)**

  **-Conveners: Douglas Clerk**

| time | [id] title | presenter |
|------|-----------|-----------|
| 14:30 | [112] Using Clickers as a tool in classroom instruction to facilitate student learning | Dr HERBERT, Mark |
| 14:50 | [183] Physics III Laboratory Module at the University of the Witwatersrand | Dr KEARTLAND, Jonathan |
| 15:10 | [220] Practicals make percentage: A student's perspective | Dr BEZUIDENHOUT, Jacques |
| 15:30 | [228] Adjusting the height of the hurdle | Mr VAN DER MERWE, Johan |

# Wednesday 11 July 2012

**Education (08:00-09:20)**

   **-Conveners: Derek Fish**

| time | [id] title | presenter |
|---|---|---|
| 08:00 | [257] The symmetry of Gauss's law and Ampère's law | Dr KROON, Ted |
| 08:20 | [42] Exploring large group dynamics | Dr RAMAILA, Sam |
| 08:40 | [263] An evaluation of students' performance in a typical first year non-calculus based Mechanics Module | Dr NAIDOO, Deena |
| 09:00 | [268] The problem of motivation: what students want, what students need, and what works well within a Physics context. | Mr VAANDRAGER, Paul |

**Education (10:55-11:55)**

   **-Conveners: CABLE MOJI**

| time | [id] title | presenter |
|---|---|---|
| 10:55 | [295] Probing students' problem-solving ability in physics – a possible role for a typology of errors | Mr CLERK, Douglas |
| 11:15 | [296] Active Learning in Thermal and Statistical Physics at the University of the Witwatersrand | Dr KEARTLAND, Jonathan |
| 11:35 | [381] Investigating the causes of unsatisfactory performance on the Physics section involving vectors in basic mechanics | Mr MOLEFE, Paul |

**Education (16:30-17:50)**

   **-Conveners: Sam Ramaila**

| time | [id] title | presenter |
|---|---|---|
| 16:30 | [353] Correlation between first year physics students' understanding of the nature of science (NOS) and their academic performance | Mr BALOYI, Vonani |
| 16:50 | [378] How much do first year physics students really understand? An entry-level test | Mr MOLEFE, Paul |
| 17:10 | [335] Investigation of the understanding of heat-time graphs by extended program students at the Mamelodi Campus of the University of Pretoria | Dr MOJI, CABLE |

# Thursday 12 July 2012

<u>Education</u> **(08:00-09:20)**

**-Conveners: Diane Grayson**

| time | [id] title | presenter |
|------|-----------|-----------|
| 08:00 | [420] The missing link between conceptual theories and reasoning | Mr MOTSOENENG, John |
| 08:20 | [43] National Senior Certificate results: Steady improvement versus output quality | Dr RAMAILA, Sam |
| 08:40 | [426] Identifying and Nurturing Future Scientists: From High School to Undergraduate Research Program and onwards to PhD and science-related careers. | Prof. MURONGA, Azwinndini |
| 09:00 | [438] Is Foundation Provision the solution to first year students' performance? | Ms SONDEZI-MHLUNGU, Buyi |

<u>Education</u> **(11:00-12:20)**

**-Conveners: Paul Molefe**

| time | [id] title | presenter |
|------|-----------|-----------|
| 11:00 | [446] Setswana Astronomical Nomenclature as a Tool in (Astro)Physics Education | Dr LEEUW, Lerothodi |
| 11:20 | [484] Best-fit Physics: Adapting presentations to diverse school backgrounds. | Mr FISH, Derek |
| 11:40 | [471] Using Easy Java Simulations in the first year classroom | Mr JANSE VAN RENSBURG, Johan |
| 12:00 | [512] The Use of Models and Simulation in the Teaching of Thermal Physics | Dr WHEATON, Spencer |

<u>Education</u> **(14:10-15:30)**

**-Conveners: Sam Ramaila**

| time | [id] title | presenter |
|------|-----------|-----------|
| 14:10 | [541] Physics Education Division Group Meeting | Mr RAMAILA, Sam |
| 14:40 | [514] Incorporating an engineering project into an augmented Physics course | Prof. GRAYSON, Diane |

<u>Education</u> **(16:00-17:20)**

# Friday 13 July 2012

**Education** (08:00-09:20)

**Education** (11:00-12:20)