

SAIP 2011

Wednesday 13 July 2011

Applied: Solar Energy - Acro3 (11:00-12:45)

-Conveners: Ernest van Dyk

time	[id] title	presenter
11:00	[107] Determining optical performance and current generation of a CPV due to intensity distribution	Mr SCHULTZ, Ross
11:15	[164] On the Thermal and Electrical Properties of Low Concentrator Photovoltaic (LCPV) Modules	Mr GERBER, Jacques
11:30	[169] Optical design of low concentration photovoltaic modules	Mr BENECKE, Mario
11:45	[208] Monitoring a grid-assist photovoltaic system	Mr ALISTOUN, Warren
12:00	[236] Application of Electroluminescence and Thermal Imaging in Defect Identification in Photovoltaic Modules	Ms CROZIER, Jacqui
12:15	[294] Comparative Efficiency Study of a Solar Trough Receiver: Hot mirror and Selective coating	Ms CYULINYANA, Marie Chantal
12:30	[302] Fabrication of MWCNT/NiO nanocomposite thin films for optically selective solar absorbers	Dr RORO, Kittessa

Applied - Acro3 (13:45-15:30)

-Conveners: Trevor Derry

time	[id] title	presenter
14:00	[336] Indoor temperature predictions in an energy efficient solar house	Mr ZIUKU, Sosten
14:15	[375] Construction and thermal analysis of a parabolic collector for small scale concentrating thermal system	Mr NHABETSE, Tomas
14:30	[165] Miniaturization of electrostatic ion engine through ionization/acceleration coupling: corona model	Mr TCHONANG POKAHA, Marius
14:45	[265] Miniaturization of electrostatic space thrusters using ionization/acceleration coupling in discharge mode	Dr FERRER, phil
15:00	[356] The effective ionization region and its variation with geometrical and electrical properties of the HVDC transmission system	Mr KASEKE, Richmore
15:15	[352] Industrial application for Global Quantum Communication	Mr MIRZA, Abdul

Thursday 14 July 2011

Applied: Biophysics - Acro3 (08:00-09:30)

-Conveners: Martin Myer

time	[id] title	presenter
08:15	[53] Predicting human epidermal melanin concentrations for different skin tones	Dr SMIT, Jacoba
08:30	[55] Optical Coherence Tomography as a diagnostic tool (Biophysics)	Ms SINGH, Ann
08:45	[58] Resin phantoms as skin simulating layers	Mrs KARSTEN, Aletta

Applied: Biophysics - Acro3 (11:00-12:45)

-Conveners: RAYMOND WALTER SPARROW

time	[id] title	presenter
11:15	[141] Inflammatory response of injured diabetic fibroblasts after low intensity laser irradiation at a wavelength of 830 nm	Ms SEKHEJANE, Palesa
11:30	[151] Effect of Low Intensity Laser Irradiation (LILI) and Epidermal Growth Factor (EGF) on Adult Human Adipose Derived Stem Cells (hADSCs)	Mr MVULA, Bernard
11:45	[108] Laser Irradiation: A Complementary Treatment for Wounds?	Dr HOURELD, Nicolette
12:00	[293] Protein localization and folding mechanisms revealed by molecular dynamics simulations	Dr GUMBART, James
12:15	[391] Nuclear and related analytical techniques for biotechnology	Dr FRONTASYEVA, Marina
12:30	[419] Three-dimensional electron microscopy and molecular modelling studies of a spiral-forming biocatalyst	Dr WATERMEYER, Jean

Applied: Biophysics - Acro3 (13:45-14:30)

-Conveners: phil ferrer

time	[id] title	presenter
13:45	[418] X-ray crystallographic studies and quantum mechanical modeling of the amidase reaction mechanism	Prof. SEWELL, Bryan Trevor
14:00	[443] The structure and flexibility of the photosynthetic machinery in plants and algal cells	Prof. GARAB, Gyözö

Friday 15 July 2011

Applied - Acro3 (08:00-09:30)

-Conveners: Frederik Vorster

time	[id] title	presenter
08:15	[87] Identification of compounds in materials using tomography imaging, a possibility at the SANRAD facility	Mr NSHIMIRIMANA, Robert
08:30	[155] Remote detection of light organic elements using PET	Mr COOK, Martin
08:45	[178] Ionizing Radiation as Imaging Tool in Coal Characterization and Gasification Research	Mr HOFFMAN, Jakobus
09:00	[201] The Unique Capabilities of Radiation Beam Lines at Necsa as Probes	Mr DE BEER, Frikkie

Applied - Acro3 (11:00-12:45)

-Conveners: Frikkie De Beer

time	[id] title	presenter
11:00	[65] A synthetic diamond probe for both low-energy mammography X-rays and high-energy electron therapy beams	Mr ADE, Nicholas
11:15	[4] Numerical Field Analysis of the Magnets for a proposed Ionisation Beam Profile Monitor for High Current Synchrotron and Cooler Rings.	Dr DE VILLIERS, John Garrett
11:30	[207] Application of Dual Energy X-ray Radiography/Tomography on Nuclear and Related Materials	Mr NDANDULENI, Takalani
11:45	[283] Transmission electron microscopy investigation of radiation damage caused by keV implantation in single-crystal diamond.	Mr NSHINGABIGWI, Emmanuel Korawinga
12:00	[306] Carbon structures generated by carbon ion implantation into FeCr thin films	Dr WAMWANGI, Daniel
12:15	[327] Characterization of the Phase Transition of h-BN - c-BN Nanoparticles by Ion Implantation	Ms ARADI, Emily