

SAIP2023

Tuesday 04 July 2023

Physics for Development, Education and Outreach (10:00-10:40)

Physics for Development, Education and Outreach (11:00-12:00)

Physics for Development, Education and Outreach (14:00-15:20)

Wednesday 05 July 2023

Physics for Development, Education and Outreach (09:40-10:40)

-Conveners: Mark Herbert

time	[id] title	presenter
09:40	[67] DEVELOPING GRADE 12 LEARNERS CONCEPTUAL UNDERSTANDING OF CHEMICAL EQUILIBRIUM USING PROBLEM-BASED LEARNING	Ms MAMABOLO, Prudence Modjadji
10:00	[84] The case for using diagrams to navigate between multiple representations in physics in order to improve conceptual understanding	WILLIAMS, Jennifer
10:20	[219] Vectors in Physics: Challenges for First-Year University Entering Students	NEKHUBVI, vhutshilo 1st mountaineer

Physics for Development, Education and Outreach (11:00-12:00)

-Conveners: Jennifer Williams

time	[id] title	presenter
11:00	[238] Improving novice Physical Sciences teachers learning and understanding of basic dynamics by multiple representation in physics	Dr HERBERT, Mark
11:20	[180] Biogas upgrading and bottling	MAPANTSELA, Yolanda
11:40	[331] The need for an integrated approach to physics/science capacity building in South Africa, SADC region, and Africa	Prof. MURONGA, Azwinndini

Physics for Development, Education and Outreach (14:00-15:00)

-Conveners: MAKONDELELE NETSIANDA

time	[id] title	presenter
14:00	[83] Surreptitiously feeding education theory to physics students	WILLIAMS, Jennifer
14:20	[237] First year mainstream physics students' conceptions about Kinematics position and displacement concepts	Dr HERBERT, Mark
14:40	[202] Low-cost methods and devices to measure the heat capacity of gases.	Dr MARIOLA, Marco

Physics for Development, Education and Outreach (15:20-17:40)

-Conveners: molamo Letsoalo

time	[id] title	presenter
15:20	[30] Evaluating Essential Skills	Dr FISH, Derek
15:40	[243] Re-Positioning the Department of Physics and Astronomy at UWC for Natural and Physical Sciences teachers training and development	Dr HERBERT, Mark
16:00	[85] Intentional design of learning material for high school physics teaching based on physics education research	WILLIAMS, Jennifer
16:20	[31] Studying the other 95 %: free-choice learning evaluation for Physics.	FISH, Derek
16:40	[257] Repositioning the Department of Physics and Astronomy at the University of the Western Cape for Learners Programme	AUDU, Bako Nyikun
17:00	[204] Educational device for Electrochemical Impedance Spectroscopy	Dr MARIOLA, Marco

17:20	[335] Decolonising the first year physics module at the University of Zululand.	Dr NGCOBO, Phumlani Zipho
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Thursday 06 July 2023

Physics for Development, Education and Outreach: PHYSICS IN INDUSTRY DAY (09:40-10:40)

time	[id] title	presenter
09:40	[371] Nanoscience innovations: On the trapping of cold neutrons in nano-scaled Fabry-Perot resonating cavities & neutron lifetime considerations	Prof. MAAZA, Malik

Physics for Development, Education and Outreach: PHYSICS IN INDUSTRY DAY (11:00-12:00)

time	[id] title	presenter
11:00	[372] Intellectual Property, Innovation Management and the Role of NIPMO in Innovation Support in South Africa	Mr JASE, Thabang

Physics for Development, Education and Outreach: PHYSICS IN INDUSTRY DAY (14:00-15:20)

-Conveners: Azwinndini Muronga

time	[id] title	presenter
14:00	[373] Innovation and Technology Transfer	Prof. MUDALI, Pragasen
14:40	[366] Physics in Business: survival in the jungle	GLEDHILL, Irvy (Igle)

Friday 07 July 2023

Physics for Development, Education and Outreach: SAIP BIRTHDAY CELEBRATION (09:40-10:40)

-Conveners: Irvy (Igle) Gledhill

time	[id] title	presenter
09:40	[48] A review of the South African Institute of Physics (SAIP) roles in Physics for development, Education, and Outreach: Hindsight, foresight, and opportunities for South Africa through the hub-and-spoke model	MASARA, Brian CHITHAMBO, Makaiko

Physics for Development, Education and Outreach: REVIEW OF SAIP TEACHER DEVELOPMENT PROGRAMME (11:00-12:20)