

SAIP2021

Monday 26 July 2021

Physics for Development, Education and Outreach: Physics In Industry - Potchefstroom Campus (11:30-13:00)

-Conveners: Iyabo Usman

time	[id] title	presenter
11:30	[371] Advanced Electronics in South Africa : Speaker: Benjamin Hlope, Director of Technology Operations at Kutleng Engineering Technologies	USMAN, Iyabo
12:00	[372] Data Convergence, a showcase of incubation in Artificial Intelligence: Speaker: Dominique Adams, Project manager at Data Convergence	USMAN, Iyabo
12:30	[373] Bridging the gap between academia and industry : Speaker: Rinae Nduvheni, Intelligence and Insights Lead at EY Consulting	USMAN, Iyabo

Physics for Development, Education and Outreach - Potchefstroom Campus (15:00-16:30)

-Conveners: Paul Molefe

time	[id] title	presenter
15:00	[107] The impact of the field model on pre-service students' qualitative understanding of basic DC circuits.	KHWANDA, Mphiriseni
15:15	[38] Online classes and the effects on conceptual understanding	Prof. CORNELL, Alan
15:30	[182] Unlocking Education lockdown with the iNethi platform	JOHNSON, David
15:45	[276] Grey Rationale Analysis for the sustainable rural community project success in Manghweni community , Limpopo: A physics approach	Mr MALULEKE, Ndzalama Heighten
16:00	[106] Cascade Outreach model	ODMAN, Carolina
16:15	[125] Science for Development at Honours level	ODMAN, Carolina

Tuesday 27 July 2021

Physics for Development, Education and Outreach - Potchefstroom Campus (11:30-13:00)

-Conveners: Miriam Lemmer

time	[id] title	presenter
11:30	[21] THE INFLUENCE OF LOCATION AND GENDER ON SHAPING STUDENT PERFORMANCE IN PHYSICS	SADARE, oluseye
11:45	[74] Classification of Sound Conceptions	Dr FISH, Derek
12:00	[82] The effects of global radical changes on students' attitudes in the new mode of teaching and learning	Mr MOLEFE, Paul SONDEZI, Buyi
12:15	[48] Teaching measurement and uncertainty the SI way	Prof. BUFFLER, Andy
12:30	[300] Evolution of the 3rd Year Major Project at WITS	KEARTLAND, Jonathan

Physics for Development, Education and Outreach: Herbert - Potchefstroom Campus (15:00-16:30)

-Conveners: Mark Herbert

time	[id] title	presenter
15:00	[303] Using the Arduino in the laboratory	LEMMER, Miriam
15:15	[127] GRADE 11 PHYSICAL SCIENCES LEARNERS' PERCEPTIONS OF SCIENTIFIC INQUIRY	Mrs ZUNGA, Rosemary
15:30	[266] South Africa and the Joint Data-backed Study of Publication Patterns of the Global Gender Gap project	GLEDHILL, Irvy (Igle)
15:45	[289] Leveraging Artificial Intelligence and Quantum Machine Learning for economic growth in Africa	Mr KARABO, Keaotshepha
16:00	[108] DOING DIGITAL OFFLINE – THE COVIDEO PROJECT	FISH, Derek
16:15	[262] Quantum technology: A potential tool for development in Africa	Dr SENEKANE, Makhamisa

Thursday 29 July 2021

Physics for Development, Education and Outreach: Keartland - Potchefstroom Campus (11:30-13:00)

-Conveners: Jonathan Keartland

time	[id] title	presenter
11:30	[151] 10 years of Astronomy for Development	GOVENDER, Kevindran
11:45	[163] Music, Context-Based Inquiry and Computer Simulation as Engagement Strategy	Mrs DJAN, Grace
12:00	[211] Science teachers' beliefs about the impact of 4IR on their classroom practices	MAVURU, Lydia
12:15	[336] First year physics students perception of online learning	Dr HERBERT, Mark
12:30	[335] Modular logic gate emulator for online laboratory	Dr MARIOLA, Marco
12:45	[338] The SAIP Benchmark Statement and Physics Graduate Preparedness: A Case Study of University of the Western Cape.	AUDU, Bako Nyikun

Physics for Development, Education and Outreach: Govender - Potchefstroom Campus (15:00-16:30)

-Conveners: Kevindran Govender

time	[id] title	presenter
15:00	[339] Creating the Support for High School After-Hour-Tutorial Programme: A Pilot Study	AUDU, Bako Nyikun
15:15	[295] Quantum Computing in the Industry 4.0: A Review and Applications	Ms GOSENYANG, Tshepiso Amber
15:30	[286] Inaugural Quantum Computing School in Lesotho: Its impact and the Lessons Learnt	Dr SENEKANE, Makhamisa
15:45	[272] Energy assessment in tertiary institution laboratory for a sustained learning and teaching experience during COVID-19 restrictions	Mr SELELO, Pitsi Regan
16:00	[285] Data Science Skills Development with Big Data Hackathons	MADHANPALL, Nikhita

Friday 30 July 2021

Physics for Development, Education and Outreach: Ramaila - Potchefstroom Campus (11:30-13:00)

-Conveners: Sam Ramaila

time	[id] title	presenter
11:30	[191] GA2024: an opportunity for physics in Africa	MCBRIDE, Vanessa
11:45	[265] The global Gender Gap project: fair treatment, and some recommendations for South Africa	GLEDHILL, Irvy (Igle)
12:00	[290] Determining the water isotope compositions in the North West Province, South Africa	Mr MATHUTHU, Joseph Prof. MATHUTHU, Manny Mrs MOKHINE, Naomi, Dikheledi
12:15	[332] Astronomy as a tool for human capacity development: the Namibian example	DALGLEISH, Hannah
12:30	[26] Effective remote learning	MAZUR, Eric