



## 4<sup>th</sup> Pan-African Science Education Research (PASER) Conference hosted by the University of Johannesburg-2025.

**Theme: Reimagining Science Education: Inspiring Innovation for social impact and sustainability.**

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### PROGRAMME: 18 July 2025

PROGRAMME CO-CHAIRS: Prof Umesh Ramnarain & Miss Noluthando Mdlalose		
08:45 – 09:00	Opening and Welcoming	Miss Noluthando Mdlalose
09:00 – 09:30	Official Start: Introduction of the Guests and Discussants	Prof Umesh Ramnarain
09:30 – 09:40	Conference procedures	Prof Nadaraj Govender
SESSION 1: DISCUSSANT – Prof Clement Simuja (Rhodes University)		
09:40 – 11:00	<i>Integrating Augmented Reality-enhanced Inquiry-based learning applications to foster career aspirations in Grade 9 Natural Sciences from Township Schools. <b>Linda Mzamo; Siphe Kave; Thato Mashishi &amp; Umesh Ramnarain.</b></i>	
	<i>Teachers using Inquiry-Based Science and Information and Communication Technology to teach The Atom in Grade 10. <b>Fadeela Kirsten &amp; Nadaraj Govender.</b></i>	
	<i>Exploring Grade 8 Teachers' Knowledge on Learners' Misconceptions and Errors in Exponent-Based Mathematics Problems. <b>Lusanda Mzimane &amp; Freddie George.</b></i>	
	<i>Exploring Grade 10 Learners' Perceptions of Augmented Reality for Active Participation, Motivation, and Engagement in Life Sciences. <b>Unarine Ndou &amp; Mafor Penn.</b></i>	
SESSION 2: DISCUSSANT – Dr A. Sondlo (UNIZULU)		
11:00 – 12:00	<i>Learner Voices on the integration of Indigenous Knowledge in Heat Energy Conservation: Insights from journal reflections. <b>Lindiwe Godlo; Kenneth Ngcoza &amp; Chrispen Mutanho.</b></i>	
	<i>Decolonising Science Classrooms: Indigenous Technology as a Gateway to Conceptual Understanding. <b>Martha Ndeyatila Aimwata &amp; Kenneth Ngcoza.</b></i>	
	<i>Fostering cultural knowledge brokerage for grade 11 chemistry teachers through a practical demonstration on traditional soap making. <b>Johannes Neporo &amp; Kenneth Ngcoza.</b></i>	
12:00 – 12:20	Break	
12:20 – 12:30	Introduction of the Plenary Speaker by Prof Umesh Ramnarain	
12:30 – 13:10	Plenary Talk: <i>The Classroom as a Catalyst: Partnering with Science Teachers to inspire Research that Matters:</i> Prof Daniel Capps, University of Georgia, USA.	

SESSION 3: DISCUSSANT – Prof Nadaraj Govender (UKZN)		
13:10 – 14:30	<i>Teaching Grade 6 Food and Nutrition through Indigenous Knowledge Systems: Insights from Selected Schools in the Umhlatuze Circuit.</i> <b>Simangele Khumalo; Aviwe Sondlo; Nomzamo Xaba.</b>	
	<i>Legitimate Code Theory as an object to work with in understanding computational thinking applications in the Physical Sciences Methods course.</i> <b>Cosmas John Kathumba &amp; Clement Simuja.</b>	
	<i>Secondary Physics Students’ Ability and Engagement in Asking Questions.</i> <b>Sechaba Koma &amp; Umesh Ramnarain.</b>	
	<i>Developing Technological Pedagogical Content Knowledge in Practice: A community-of-Learning Intervention with Rural Natural Science Teachers in Namibia.</i> <b>Secilia Silvanus &amp; Clement Simunja.</b>	
SESSION 4: DISCUSSANT – Prof M. Penn (UJ)		
14:30 – 16:20		
	<i>Cultural Knowledge Brokerage: An Intergration of Indigenous Technological Practices in Chemistry Lessons.</i> <b>Rauha Mika &amp; kenneth Ngcoza.</b>	
	<i>Upper Secondary School Chemistry Teachers’ Construction of Teaching-Learning Sequences for Stoichiometry.</i> <b>Ekias Zvirevo &amp; Doras Sibanda.</b>	
	<i>Exploring how the Virtual Lab enables and/or hinders rural Grade 9 Life Science Education learners develop self-regulated learning in Namibia: A case study.</i> <b>Raina Hatutala; Clement Simuja &amp; Brian Shambare.</b>	
	<i>Teachers’ Beliefs about the Use of Simulations in Inquiry-based Science Teaching in Mozambique.</i> <b>Luis José Brás &amp; Nadaraj Govender.</b>	
16:20 – 16:35	<i>Quo Vadis?</i>	PROF Kenneth Ngcoza
16:35 – 16:45	Vote of Thanks	PROF Mafor Penn