

SYNERGY SUMMIT: HIGH PERFORMANCE COMPUTING FOR SUSTAINABLE DEVELOPMENT IN GOVERNMENT, ACADEMIA AND INDUSTRY

We are delighted to present a series of thought-provoking lectures as part of the Synergy Summit: High-Performance Computing for Sustainable Development in Government, Academia and Industry.

These lectures, featuring esteemed speakers from various sectors, will delve into the latest advancements in high-performance computing and explore their applications in driving sustainable development. In recognition of the International Year of Basic Sciences for Sustainable Development, our programme seeks to underscore the transformative potential of advanced computing technologies in addressing critical global challenges and fostering a more sustainable future for all. Join us for an engaging and informative programme that promises to inspire new ideas, foster collaboration, and spark innovation in the pursuit of a more sustainable world.

TIME	MONDAY, 17 APRIL 2023 VENUE: NEELSIE CINEMA, STELLENBOSCH UNIVERSITY
13:00 - 14:00	ARRIVAL OF GUESTS – FINGER LUNCH
14:00 - 14:30	<p><i>Opening:</i> Mr Imraan Patel (Deputy Director General: Socio-economic Innovation Partnerships (Programme 5) - Department of Science and Innovation)</p> <p>Prof Francesco Petruccione (Interim Director: National Institute for Theoretical and Computational Sciences)</p> <p>Prof Atish Dabholkar (Director General: International Centre for Theoretical Physics)</p> <p>Dr Happy Sithole (Centre Manager: National Integrated Cyber Infrastructure System at the Council for Scientific and Industrial Research)</p>
14:30 - 15:00	<p><i>How Data-intensive Science can Drive Human Capital Development for the Fourth Industrial Revolution [virtual]</i> Prof Anna Scaife (University of Manchester)</p>
15:00 - 15:30	<p><i>High-Performance Computing is Enabling a Modernised Approach to Enterprise Risk Management (ERM)</i> Dr Mark Nasila (First National Bank)</p>
15:30 - 16:00	<p><i>Progress in the Development of Environmental Observation Networks, and Numerical Weather and Climate Models in South Africa</i> Dr Mary-Jane Bopape (Director: National Research Foundation - South African Environmental Observation Network)</p>
	BREAK
16:30 - 17:00	<p><i>High Performance Computing in an African Collaborative Research in Atomistic/Molecular Modelling</i> Dr Omololu Akin-Ojo (ICTP - East African Institute for Fundamental Research)</p>
17:00 - 17:30	<p><i>Brain-inspired energy efficient solution to hard optimization problems</i> Dr Gabriel Fonseca Guerra (Intel)</p>
17:30 - 18:00	<p><i>The Future of Computing – From Bits to Qubits</i> Dr Heike Riel (IBM)</p>
18:00 - 18:30	<p><i>Making your software correct</i> Prof Bruce Watson (Stellenbosch University)</p>
18:30 - 18:45	<p><i>Closing: Stellenbosch University's clusters of excellence and the Research and Innovation Blueprint 2030</i> Prof Sibusiso Moyo (Deputy Vice-Chancellor: Research, Innovation and Postgraduate Studies - Stellenbosch University)</p>
18:45 - 20:00	RECEPTION