

Invited speakers for SAIE 28, October 2017



Willem Louw

Associate: Stellenbosch Business School
South Africa

Presentation: *The executive sponsor as key factor in mega-project success*

Willem Louw (63) is an Associate of the Transnet Centre for Business Management of Projects at USB-Executive Development, the public executive development company within the University of Stellenbosch Business School (USB). Willem is a former Managing Director of Sasol Technology, the technology/ project management business unit within the Sasol Group of companies. During his 25 year tenure with Sasol, Willem was extensively involved and accountable for the development and implementation of a portfolio of small to mega capital projects with an annual cash-flow in excess of \$1 billion in 2011 terms as well as being the integration manager for a Euro 1.3 billion multi-national acquisition by Sasol in early 2000. This work was performed both locally and internationally, primarily within the oil and gas/ petrochemical industries. He joined USB-ED in 2012. Willem is the holder of various educational qualifications including a B.Eng.(Civil)(1978) and M.Eng.(Civil)(Construction Management)(1985) from the University of Stellenbosch and a Graduate Development Program in Project Management from UNISA in 1978. Memberships include being a registered member of the South African Council of Project and Construction Management Professions (SACPCMP) as well as a fellow of the South African Academy of Engineering (SAAE) both since 2008. Willem is also currently the chairperson of the Council of the University of the Free State and a PhD student at USB. From mid 2014 to mid 2017 he was a Non-Executive Director of Group Five Limited.



Premier David Malemolla Makhura

Premier
Gauteng Province
South Africa

Presentation: *tbc*

Malemolla David Makhura was born on 22 February 1968 at Mara Buysdorp in Soutpansberg District of Limpopo province, near Mapungubwe World Heritage Site

Between 1984 and 2004, Makhura was involved in student and youth politics – Azanian Student Movement, Congress of South African Students, South African National Students' Congress and the South African Youth Congress. He held various leadership positions, including the President of the SRC at Turfloop University (1990, 1992), National President of the South African Student Congress (1994-1996); ANC Youth League National Executive Committee member (1998-2004).

Between 1997 and 2001, he was the National Education Secretary and subsequently the Deputy General Secretary of the National Education Health & Allied Workers' Union (NEHAWU). He was also a member of COSATU's Central Executive Committee and served in the Political Commission and Education Committee of the trade union federation during the same period.

Makhura was recruited to the ANC and SACP in 1986 and 1987, respectively. Between 2001 and 2014, he served as the ANC Gauteng Provincial Secretary and member of the PEC and an ex-officio member of the National Executive Committee. He served in several sub-committees of the ANC National Executive Committee – Drafting, Political Education, Organising & Campaigns. He was the First Convener of the South African Communist Party National Youth Desk (predecessor to the Young Communist League of SA).

Overseeing policy implementation and governance was one of Makhura's responsibilities as the ANC provincial secretary. This includes overseeing ANC Caucuses in the provincial legislature and municipalities. Makhura played an important role in the introduction of a performance monitoring and evaluation system in the ANC Gauteng province and overseeing the performance of provincial and local government in the province, working closely with all the ANC mayors and three successive ANC premiers over a decade.

Premier Makhura has been part of several delegations of the ANC and NEHAWU that visited sister parties and trade unions in the African continent, China, Cuba, Latin America and Europe to exchange experiences on party-building, socio-economic development and governance.

Premier holds a Master of Science (MSc) degree in Public Policy and Management from the University of London and is studying towards a Master of Philosophy (MPhil) in Future Studies at the University of Stellenbosch.

Premier Makhura is a trustee of the Board of the Ahmed Kathrada Foundation. He is married to his wife, Mpho and they have three children.

David Makhura was elected Premier of Gauteng, South Africa's most populous province and economic hub of the country, on 21st May 2014



Ing Beatriz Lorena Rodriguez Montenegro

Dean of Industrial Engineering
University Santo Tomas, Bogotá
Colombia

Presentation: *Trends of industrial Engineering in Colombia*

- For the past 5 years Ing Montenegro has been working in the administrative matters of Higher Education. Currently, she is working towards increasing her academic production. In her role as a leader in higher education, she has been working in events coordination, thesis guidance and management of high quality standards and achievements for the undergraduate and graduate programs related to industrial engineering.
- As a participant in international conferences she can account for:
 - EIEI (Spanish acronym of the International Meeting for Engineering Education of the Colombian Association of Engineering Faculties) last year; and this year she will be participating again
 - The International Meeting "Virtual Educa" which intended to gather the state of the art in virtual education in Latin America and Colombia;
 - The International Congress of the Colombian Association of Industrial Engineers (ACII). As an organizer, she participated in the international symposium of Industrial Engineering and in many other events related to Industrial Engineering, in collaboration with other High-quality accredited HEI from Colombia both private and public.
- She is particularly interested on Innovation Trends in the Engineering Industry and in Industrial Engineering programs, as well as in the impact of the management of Engineering Faculties in general in its curricular development.
- she has also researched and studied the impact of Social Networks and media in teaching in Engineering .These are my three main interests for you to know.



Prof Lukas Snyman

Director of the School of Engineering
College of Science, Engineering and Technology
UNISA
South Africa

Presentation: *Models for enhanced technology and skills transfer from SA universities to SA industries and communities*

Prof Lukas Snyman is currently Director of the School of Engineering at UNISA's College for Science and Engineering Technology (CSET) at Florida, Johannesburg. He serves in the Deanery of the College and also on the Senate of UNISA. For 2017, he is also the designated Chair of the Engineering Council of South Africa (ECSA) Deans Forum in South Africa.

He has expertise in fields of semiconductor physics, device physics, analogue and digital electronics, optoelectronics, high frequency and microwave engineering, telecommunication systems and electronic manufacturing technology. His high end research focuses on "Silicon Photonics", which a new and futuristic type of optical communication technology with access "directly to the chip". At the lower project levels, Prof Snyman's group focuses on the development of applied innovative electronic systems and products that have a market potential in South Africa and Africa. They have developed a number of such products which are currently manufacturing ready, including an electronic controller that can automate the flow of PV generated electricity into a domestic household, a so called thermal-to-electricity convertor system that can convert heat to electricity on a continuous basis at 10% efficiency, and an innovative low cost wind turbine system.

Lukas has published approximately 100 research outputs (patents, conference articles, journal articles), mostly at an internationally level. He is currently the main inventor and co-inventor of six granted USA patents, 4 granted European patents, 1 Korean Patent, 2 Chinese patents and about 10 SA granted patents. In 2015 and 2017 he was designated as a finalist by the National Science and Technology Forum (NSTF) Awards in the categories Photonics and Innovation and Applied Technology. In 2010, he was designated as "Innovator of the Year " at the Tshwane University of Technology. He is currently a regular reviewer for several journals in optoelectronics in the USA. He has collaborations with international universities in the UK, Europe and China; and is a Research Associate at the ESIEE Technical University at Paris, France.