

The Department of Information Systems is particularly interested in the generation of knowledge in the areas of ICT4D, eGovernment, eLearning, IT Project Management, Social Networks, Information Security, and User Experience. Research in these areas have produced one (1) book chapter, three (3) journal articles, and seven (7) conference papers, with aspects of this research being presented locally as well as internationally in Mauritius, Portugal, Indonesia, and Rwanda.



Dr Ingrid Sieborger training Makana Municipality staff to use MobiSAM.
Photo: Department of Information Systems.

In addition to producing research outputs, staff in the Department of Information Systems contribute to their discipline as journal editors and reviewers, conference reviewers and panel members, and external examiners of theses for other academic institutions.

Postgraduates / Graduations

Postgraduate numbers in the Department include six (6) PhD candidates, sixteen (16) Masters candidates, and a class of thirty-five (35) Honours students. In April 2017, we celebrated the graduation of two (2) PhD students.

Distinguished Visitors / International Visits

Distinguished Visitors to the Department included Dr Adele Botha and Professor Marlien Herselman from the Meraka Institute who participated in research workshops.

Dr Hannah Thinyane from the United Nations University (Computing and Society) and Associate Professor Caroline Khene continued to collaborate as co-directors of the digital citizen engagement initiative called MobiSAM (Mobile Social Accountability Monitoring) in Makana Municipality. Their collaboration has resulted in being invited in November 2017, to implement a similar initiative for the SAfAIDS NGO over three (3) years, on monitoring access to sexual reproductive health services by adolescent youth in six (6) SADC countries.

Professor Sue Conger from the Satish and Yasmin Gupta College of Business at the University of Dallas has also continued to collaborate with researchers in the department around IT in developing countries. She collaborated with Mr Clement Simuja and Professor Kirstin Krauss.

Ms Brenda Mallinson, a Research Associate of the Department, continues to make a valuable contribution to the research efforts, with a number of publications in the field of eLearning.

Significant Research Aligned Events

Associate Professor Caroline Khene continues to be actively involved in the development of the Open budget portal called VulekaMali over five (5) years, by the South African National Treasury. The portal is to launch in February 2018 and will be instrumental in opening access to key expenditure and performance by national government for advancing transparency and accountability.

The MobiSAM application was released in March 2017 in Makana Municipality for reporting basic service delivery - co-directed by Associate Professor Caroline Khene and Dr Hannah Thinyane from the UN University. The aim of the project is to support two-way dialogue between citizens and local government - which has been progressively instrumental in promoting active citizenship and addressing numerous water leaks around Grahamstown during the drought. It has been funded in the past by the Ford Foundation and the Making All Voices Count initiative.



Professor Greg Foster, Acting Head of Department

PUBLICATIONS

Books/Chapters/Monographs

Krauss, K.

Krauss, K. (2017) Research Supervision In Information Systems: A Critical Approach. In: McKenna, S., Clarence-Fincham, J., Boughey, C., Wels, H. and van den Heuvel, H. (eds.). *Strengthening Postgraduate Supervision*. Stellenbosch: SUN PRESS. p.173-195. ISBN: 9781928357315.

Concerts, Exhibitions, Performances, Workshops, Events

Mallinson, B.J.

Mallinson, B.J. and Mbogela, S. Presentation. Exploring the Digital Fluency course for academic staff professional development. *Pre-conference workshop at DETA*. Kigali. Rwanda. 22 August 2017.

Peer Reviewed Subsidy-Earning Journal Research Publications

Baduza, G. and Pade-Khene, C.

Baduza, G. and Pade-Khene, C. (2017) A Needs-ICTD Strategy Alignment Foundation for the Measurement of ICTD Impact: Three Case Studies in South Africa. *African journal of information systems*. 9(2). p.128-148.

Conger, S. and Simuja, C.

Conger, S., Krauss, K.E.M. and Simuja, C. (2017) New Pedagogical Approaches with Technologies. *International Journal of Technology and Human Interaction*. 13(4). p.62-76.

Mthoko, H. and Pade-Khene, C.

Mthoko, H. and Pade-Khene, C. (2017) Building theory in ICT4D evaluation: A comprehensive approach to assessing outcome and impact. *Information Technology for Development* (2017). p.1-27.

Pade-Khene, C.

Pade-Khene, C. and Lannon, J. (2017) Learning to Be Sustainable in ICT for Development: A Citizen Engagement Initiative in South Africa. *IFIP Advances in Information and Communication Technology*. 504 (2017). p.475-486.

Peer-reviewed Proceedings

Mallinson, B.J.

Nihuka, K.A. and **Mallinson, B.J.** Enabling Conditions for Successful Integration of Open Educational Resources for Professional Development in a Developing Context Institution. *6th biennial International Conference on Distance Education and Teachers' Training in Africa (DETA): "The Future We Want": Teacher Development for the Transformation of Education in Diverse African Contexts*. Mauritius Institute of Education, Reduit. Mauritius. July 2015.

Mnjama, J.J. and Foster, G.

Mnjama, J.J., Foster, G. and Irwin, B. A Privacy and Security Threat Assessment Framework for Consumer Health Wearables. *2017 Information Security for South Africa*. 54 on Bath, Rosebank, Johannesburg. South Africa. August 2017.

Moongela, H. and McNeill, J.

Moongela, H. and McNeill, J. Perceptions of social media on students' academic engagement in tertiary education. *SAICSIT 2017: Computing for humanity in today's world*. Thaba 'Nchu, Free State. South Africa. September 2017.

Pade-Khene, C., Thinyane, H. and Machiri, M.

Pade-Khene, C., Thinyane, H. and Machiri, M. Building Foundations before Technology: An Operation Model for Digital Citizen Engagement in Resource Constrained Contexts. *17th European Conference on Digital Government (ECDG 2017)*. Military Academy, Lisbon. Portugal. June 2017.



MobiSAM Makana Process Reengineering.
Photo: Department of Information Systems.

Thinyane, H., Pade-Khene, C. and Mthoko, H.
Thinyane, H., Sieborger, I., Pade-Khene, C. and Mthoko, H.
 Communicative ecologies and mobile phones: Forging a way to increased citizen engagement. *17th European Conference on Digital Government (ECDG 2017)*. Military Academy, Lisbon. Portugal. June 2017.

Monyemangene, R. and Mallinson, B.J. Exploring Openness as an approach to Mitigate Gender Inequality in Stem Education. *DETA conference (Distance Education and Teachers Training in Africa)*. Kigali. Rwanda. August 2017.

Research Papers Presented at Academic/Scientific Conferences (Non-peer-reviewed Proceedings)

Mallinson, B.J.
Mallinson, B.J., Monyemangene, R. and Augusti, M. Modelling Openness in Academic Professional Development: case study of developing the Digital Fluency course at Open University of Tanzania. *International Open Education (OE) Global 2017 Conference*. Cape Town. South Africa. March 2017.