



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, Behavioural Cybersecurity, and User Experience.

Research in these areas have produced eight (8) journal articles, and sixteen (16) conference papers, with aspects of this research being presented locally as well as internationally in the United Kingdom, Zambia, Costa Rica, Germany, Portugal, China, and United States of America. 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 ten (10) PhD candidates, twelve (12) Masters students, and a class of thirty-three (33) Honours students. We celebrated the graduation of two (2) Doctoral candidates, and four (4) Masters students.

### Distinguished Visitors / International Visits

Distinguished visitors to the Department included Professor Sabine Koch from the Karolinska Institutet, Stockholm, Sweden. She gave a guest lecture to Postgraduate students on Health Information Systems.

Professor Sue Conger, a Visiting Professor from the Satish and Yasmin Gupta College of Business at the University of Dallas, continues to make a valuable contribution to the research efforts, with a number of publications of IT in developing countries.

Professor Graham Wright, a Visiting Professor of the Department, continues to make a valuable contribution to the research efforts, in the field of Health Information Systems.

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.

Professor Greg Foster and Professor Stephen Flowerday were each awarded grants by the South Africa Sweden University Forum (SASUF) to collaborate on joint Swedish South African research projects. Professor Foster's project falls within the Health Information Systems arena and Professor Flowerday's focusses on Information Security.

Professor Stephen Flowerday was invited by the Scottish Informatics and Computer Science Alliance (SICSA) as a Distinguished Visiting Fellow to Scotland, where he gave guest lectures and met with Doctoral candidates and staff from several Scottish universities concerning their research.

#### Professor Stephen Flowerday

*Head of Department*

*2019 Systems Development Project winners with Dr Karl van der Schyff (third from left) with Mr Sid Bwerinofa (fourth from left), Principal Consultant at BSG who handed over sponsored prize to student winners*  
 Credit: Department of Information Systems

## Concerts, Exhibitions, Performances, Workshops, Events

Pade-Khene, C.

**Pade-Khene, C.** Presenter. Combining Potential: Harnessing Technology & Youth Leadership in SRHR-#SAM4AYSRHR. *Launch of SAfAIDS Regional MobiSAfAIDS Application for Social Accountability Monitoring (SAM) of Adolescent and Young People's Sexual and Reproductive Health (AYSRH) and Rights in SADC.* Intercontinental Hotel, Lusaka. Zambia. 4 - 5 March 2019.

## International Visits

Pade-Khene, C.

**Pade-Khene, C.** United Nations University - Institute in Macau, Macau, Macau. *Fostering research collaboration on digital platforms and citizen engagement: MobiSAM.* 20 - 26 August 2019.

## Other Publications

Mallinson, B.J.

**Mallinson, B.J.** (2019). *Towards an Open Educational Resources Strategy for the Republic of Zambia.* UK: Commonwealth of Learning.

## Peer Reviewed Subsidy-Earning Journal Research Publications

Flowerday, S.

Maoneke, P.B. and **Flowerday, S.** (2019) Password Policies Adopted by South African Organizations: Influential Factors and Weaknesses. *Communications in Computer and Information Science.* 973 (2019). p.30-43.

Musarurwa, A., **Flowerday, S.** and Cilliers, L. (2019) The bring-your-own-device unintended administrator: A perspective from Zimbabwe. *Electronic Journal of Information Systems in Developing Countries.* 2019 (e12076). p.1-20.

Renaud, K.

Venter, I.M., Blignaut, R.J., **Renaud, K.** and Venter, M.A. (2019) Cyber security education is as essential as "the three R's". *Heliyon.* 5 (2019). p.1-8.

Thinyane, H.

**Thinyane, H.** (2019) Supporting the Identification of Victims of Human Trafficking and Forced Labor in Thailand. *Communications in Computer and Information Science.* 2019. p.61-74.

Poveda, S., Gill, M., Junio, D.R., **Thinyane, H.** and Catan, V. (2019) Should social enterprises complement or supplement public health provision? *Social Enterprise Journal.* 15 (4). p.495-518.

Ju, B., Sandel, T.L. and **Thinyane, H.** (2019) WeChat use of mainland Chinese dual migrants in daily border crossing. *Chinese Journal of Communication.* 12 (4). p.377-394.

Van Der Schyff, K.

**Motara, Y.M.** and **Van Der Schyff, K.** (2019) A functional ontology for information systems. *South African Computer Journal.* 32 (1). p.57-76.

Van Der Schyff, K. and Flowerday, S.

**Van Der Schyff, K.** and **Flowerday, S.** (2019) Social media surveillance: A personality-driven behaviour model. *South African Journal of Information Management.* 21 (1). p.1-9.

## Peer-reviewed Proceedings

Flowerday, S.

Gundu, T., **Flowerday, S.** and Renaud, K. Deliver Security Awareness Training, then Repeat: {Deliver; Measure Efficacy}. *ICTAS2019: Information Communication Technology and Society.* Blue Waters Hotel, Durban. South Africa. March 2019.

Mitchell, M. and Sieborger, I.

**Mitchell, M.** and **Sieborger, I.** Building a National Network through peered community area networks: realising ICTs within developing countries. *ICTAS2019: Information and Communication Technology and Society.* Blue Waters Hotel, Durban. South Africa. March 2019.

Renaud, K.

**Renaud, K.** and Dupuis, M. Cyber Security Fears Appeal: Unexpectedly Complicated. *New Security Paradigms Workshop (NSPW).* The Tilajari Hotel and Conference Centre, San Carlos. Costa Rica. September 2019.

Theunissen, K.E. and Sieborger, I.

**Theunissen, K.E.** and **Sieborger, I.** The potential use of Tablet Computers to support Teaching and Learning activities in South African Schools. *ICTAS2019: Information Communication Technology and Society.* Blue Waters Hotel, Durban. South Africa. March 2019.

Thinyane, H.

**Thinyane, H.** and Bhat, K.S. Apprise: Supporting the Critical-Agency of Victims of Human Trafficking in Thailand. *CHI 2019: Weaving the Thread of CHI.* Glasgow, Scotland. United Kingdom. May 2019.

Tilbury, J.L., De La Rey, E. and Van Der Schyff, K.

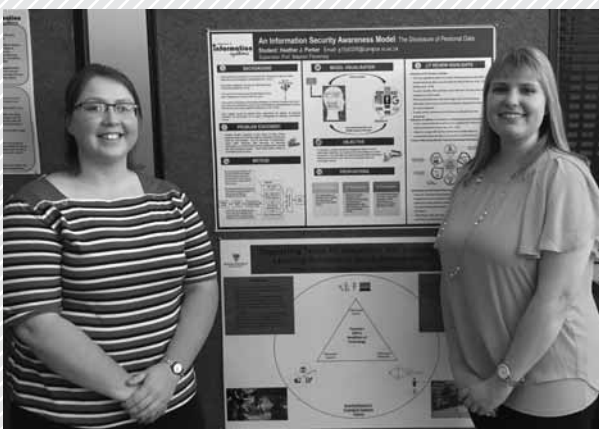
**Tilbury, J.L., De La Rey, E.** and **Van Der Schyff, K.** Business Process Models of Blockchain and South African Real Estate Transactions. *2nd International Conference on Advances in Big Data, Computing and Data Communication Systems.* Drakensberg Sun Resort, Winterton. South Africa. August 2019.

Tsegaye, T.A. and Flowerday, S.

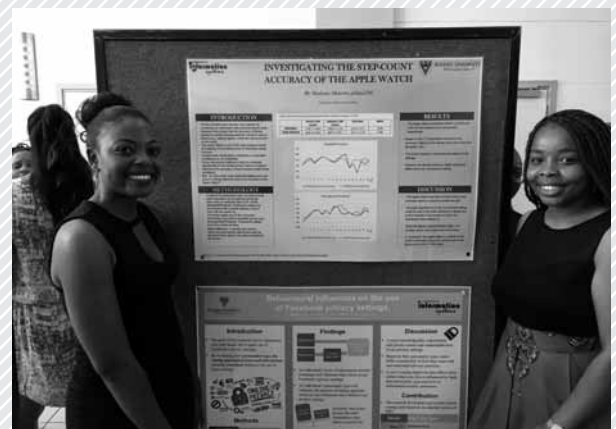
**Tsegaye, T.A.** and **Flowerday, S.** PoPI Compliance through Access Control of Electronic Health Records. *2019 SAICSIT Conference: digital eco-systems gone wild.* Skukuza Conference Centre, Skukuza. South Africa. September 2019.

Upfold, C.T. and Bell, K.J.

**Upfold, C.T.** and **Bell, K.J.** The Influence of Learning Style Theory within a Blended Learning Environment: A Systematic Review. *SACLA 2019 Conference - Computing Matters of Course!* Northern Drakensburg, KwaZulu-Natal. South Africa. July 2019.



Two Masters student's posters on display: Kristen Theunissen and Heather Parker  
Credit: Department of Information Systems



Two Honours student's posters on display: Shaloam Mutetwa and Wadzanai Muzondo  
Credit: Department of Information Systems



Two Rhodes students walking through campus  
Credit: Rhodes University Communications and Advancement Division

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

**Baduza, G. and Pade-Khene, C.**

**Baduza, G. and Pade-Khene, C.** A Holistic View of ICTD and Upscaling of Community Development Projects. *International Conference on Information Systems (ICIS) 2019. 12th Annual AIS SIG Global Development pre-ICIS Workshop*. Internationales Congress Center München (ICM), Munich. Germany. December 2019.

**Conger, S.**

Christie, O.E. and **Conger, S.** An Analysis of Expatriates Adjustment by Age. *European Academy of Management (EURAM) 2019*. Lisbon. Portugal. June 2019.

**Flowerday, S. and Musarurwa, A.**

**Flowerday, S. and Musarurwa, A.** Information Privacy and BYOD: a case study of a Zimbabwean bank. *18th Annual Security Conference: Securing the Interconnected World*. Tuscany Suites & Casino, Las Vegas. USA. May 2019.

**Mallinson, B.J.**

**Mallinson, B.J.** Open Educational Resources: Levering Educational Advantage. *Technology for Teaching and Learning Summit*. Johannesburg. South Africa. October 2019.

**Mallinson, B.J.** Evaluating the Design, Development, and Implementation Experiences of the Digital Fluency Course. *Pan-Commonwealth Forum 9 (PCF9)*. Edinburgh. Scotland. September 2019.

**Pade-Khene, C., Sieborger, I. and Thinyane, M.**

**Pade-Khene, C., Sieborger, I. and Thinyane, M.** Data-driven Citizen Engagement and Empowerment: Lessons and Reflections from MobiSAM. *CODATA 2019: Towards next-generation data-driven science: policies, practices and platforms*. The Friendship Hotel of Beijing, Beijing. China. September 2019.