

Official Launch of African Journal of Science, Technology, Innovation & Development

Innovative & Renaissance



Tshwane University
of Technology
We empower people



SARCHI Innovation Studies



About the journal

Aims and Scope

African Journal of Science, Technology, Innovation & Development (AJSTID) is a multidisciplinary journal covering economics, science, engineering, and technology, with the core focus on economics of innovation and development. *AJSTID* provides an important outlet to research on process and impact of science, technology and innovation at two levels: the narrow objective of achieving industrial growth, and the broader objective of achieving socio-economic development, particularly in Africa and other developing economies.

AJSTID aims to undertaking and promoting the scientific research in a broader sense. It provides an outlet for research works by scientists, academia, engineers, practitioners, doctoral scholars and post graduate students concerned with the impact of science, technology and innovation process on industrial, economic, and social development. *AJSTID* brings publishing to the doorstep of every emerging researcher in Africa and other developing countries.

All submitted manuscripts should be original, previously unpublished and are subject to initial appraisal. If found suitable for further consideration, the manuscripts will be sent to independent, anonymous expert referees for peer review. *AJSTID* follows the double blind review system. However, peer review is single blind in some exceptional cases, such as highly specialized scientific papers.

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SARChI Innovation Studies



Day 1: 14 September 2016

**Official Launch of Tshwane University of Technology's
African Journal of Science, Technology, Innovation and Development
(<http://www.tandfonline.com/toc/rajs20/current>)
Supported by Globelics, Africalics & Medalics Networks**

Venue: Prestige Auditorium Hall, Tshwane University of Technology, Pretoria Campus

Programme Director: Dr Rita Raseleka – Director: Research and Innovation, TUT

- 12:00 - 12:20 **Official Welcome** - Dr Edgar Nesamvuni – Acting DVC: Postgraduate Studies, Research and Innovation, TUT
- 12:20 - 13:00 **Origin and Development of the TUT's AJSTID Journal** - Prof Mammo Muchie – Founding Co-Chief Editor of AJSTID
- 13:00 - 13:05 **Supporting and Dissemination of Research in Africa** by Taylor & Francis Africa (Podcast)
- 13:05 - 13:45 **Promoting African Research to the Global Platform** - Mr Sibabalwe Oscar Masinyana, Managing Editor, Taylor & Francis Africa
- 13:45 - 14:30 **Essential Factors for Journals to Qualify in the Web of Science** - Ms Tracey October, Director of African Research, Thomson Reuters
- 14:30 - 15:15 **R & I: Technology, Innovations and Entrepreneurship** – Mr Hamilton Mphidi – Manager CITSI, TUT
- 15:15 - 15:30 **Introducing Pan African Talent Initiative (PATI) & Closing Remarks:** Prof Mammo Muchie – Founding Co-Chief Editor of AJSTID
- 15:30 – 16:00 Refreshments

NB:

- **There will be displays of AJSTID, TAYLOR & FRANCIS and THOMSON REUTERS**
- **AJSTID is listed in ESCI, SCOPUS, IBSS, Department of Higher Education and Training (DHET) and in other citations like EBSCO**

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SARChI Innovation Studies



Day 2: 15 September 2016

FOURTH TUT- POST-GRADUATE ACADEMY

Title: Training Programme: Research Skills for High Quality Post-Graduates

Venue: Tshwane University of Technology – Business School, Floor 5

Background

The DST/NRF SARChI Chair in Innovation Studies in conjunction with the Directorate: Research and Innovation have previously conducted three postgraduate training seminars by involving all faculties, departments and schools to promote interdisciplinary masters and doctoral research training. The main mission of the TUT Post-graduate Academy (formally known as the Doctoral and Masters Academy) is to accelerate the education transformation in South Africa, to remove the unacceptable skills crisis, to make a difference by establishing novel approaches and to engineer powerful education. Two deficits need to be overcome: the quality supervision of post-graduate students and the creation of high quality masters and doctorates, fully equipped with the creative, inventive and innovative spark. Post-graduate Masters and Doctoral research is a complex and time-consuming process. It is an intriguing process that starts with the identification of a suitable research problem, followed by the formulation of a research strategy, sample selection, decision on the appropriate materials and methods and finally the thesis writing. In this long process, Masters and Doctoral level students generally face two types of challenges. Firstly, these students struggle to identify suitable research problems and how to address them. Secondly, many of the students lack the interdisciplinary knowledge to address the research questions. Hence, in all these challenging tasks, proper guidance is required. The 4th TUT Post-graduate Academy seminar is organized and designed to overcome such research challenges faced by these entry level researchers at their problem identification stage and also as advanced level candidates at their thesis writing stage. The main thrust is to enhance high quality research output and encourage all emergent Masters and Doctoral scholars to be inspired to publish in DHET listed journal outlets while they work to complete their studies. This Academy will include all South African Post-graduate researchers in 2017, the SARChI chairs of UJ & TUT respectively: Prof Chris Landsberg, DST-NRF SARChI Chair in African Diplomacy & Foreign Policy, UJ, and Prof Mammo Muchie, DST-NRF SARChI Chair in Innovation Studies, TUT, the Directorate: Research and Innovation, and Tshwane University of Technology as the leaders in the training, to accelerate higher education transformation processes.

TRAINING PROGRAMME: PRESENTATIONS AND MOTIVATIONS

08:30 – 08:45 Registration

8:45 – 9:00 **Welcoming Remarks: Prof Mammo Muchie**

Session I (09:00 – 13:30) RESEARCH LECTURES AND MOTIVATIONS

- 9:00 – 9:45 As Education is Life, Research Too is Knowledge for Life: Prof Mammo Muchie
- 9:45 – 10:30 Skills for Completing High Quality Research in the Natural Sciences: Prof Felix Dakora
- 10:30 – 11:15 Enhancing postgraduate studies through shared understanding of student-supervisor roles and responsibilities: Prof Sunday Ojo
- 11:15 – 12:00 Authorship Ethics and Integrity: Prof Kumbulani Mpofu
- 12:00 – 12:45 The function of firms in the National Systems of Innovation: Dr Lindile Ndabeni
- 12:45 – 13:30 Applied Econometrics: panel data models, simple dynamic models and simple cointegration models: Dr Mulatu Fekadu Zerihun
- 13:30 – 14:00 Lunch Break

Session II (14:00 – 17:50) POSTDOCTORAL/POST-GRADUATE PRESENTATIONS
Combined Panel session: Postdoctoral Research Fellows and Supervisors

- 14:00 – 16:00 Post-graduate presentations (15 minutes each and 5 minutes for discussion and feedback)
 - V.N. Ranko : An Ontology-based model for Computational Thinking for problem solving
 - Flavia Masubelele : Modelling Productivity in the South African Automotive Industry
 - John Ogbembe : Trajectory Planning of an Arc Welding Manipulator Using Parametric Path Representations
 - Enos Letsoalo : Impact of session hijacking attacks in wireless networks
 - P.M. Skhosana : The Periodic Solution of Numerical Method and Stability of Periodic Regimes of Duffing Equation
 - G. Temesgen : The Vibratory Disc Gyroscope and its Dynamics
- 16:00 – 16:45 Postdoctoral Panel – Learning from their experience of doing Doctoral research: (Dr Fritz Nganje, Dr Westen Shilaho, Ms Odilile Ayodele, Dr Byamukama John, Dr Shakespeare Mudombi, Dr Paul Marivate, and Dr Swapan Patra)
- 16:45 – 17:00 General discussion and feedback on Doctoral Research
- 17:00 -17:45 The Epistemic Roadmap: From the old to the new supervision: Prof Chris Landsberg
- 17:45 – 18:00 Final Closing Remarks: Prof Mammo Muchie and Prof Chris Landsberg: Founding of the South African Post-graduate Academy