Proceedings of Research Group Workshop 15 to 16 August 2012

Steve Biko Campus Research Boardroom

Editor: Dr Bloodless Dzwairo

PART 2









Prof Fredrick A.O.Otieno OBJEO O.Otiens

Prof Fredrick A.O.orships

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Prof Fredrick A.O.orships

A.O.orships

Prof Fredrick A.O.orships

A.O.orships Dr Bloodless Dzwairo

Dr Bloodless DZWaing)

Drech Eng: Civil (Water quality modelling)

Integrated Water quality management DT Bloodless modelling,
MSc Integrated Water Resources Microbiology

BSC OF W-BSc Chemistry and Microbiology MSc Integrated Water Resources Microbiology

MSc Integrated Water Resources Microbiology

BSc Chemistry and Technology

BSc Chemistry Technology





Main objective of the workshop

To brief Research Group regarding the Post doctoral research focus and how each student's research topic contributed towards the Post Doctoral Fellowship outputs









1. To build team spirit among students and supervisors







- Prof Fred AO Otieno Host of Post Doc Research and Supervisor
- 2. Dr Bloodless Dzwairo Post Doc Fellow and Supervisor: DUT Institute for Water and Wastewater Technology
- 3. Prof George M Ochieng' Associate Professor and Supervisor: Tshwane University of Technology (TUT) Civil Engineering Department
- 4. Mr Graham J Barratt Head of Programme and Supervisor: DUT Department of Community Health Studies





- 5. Prof Innocent Nhapi Supervisor: University of Zimbabwe Civil Engineering Department
- 6. Mr Innocent Rangeti MTech student at DUT: Department of Environmental Health
- 7. Mr Eugine Makaya DTech student at DUT: Civil Engineering Department
- 8. Mr Nkwonta Onyeka DTech student at DUT: Civil Engineering Department







- 9. Mrs Annatoria Chinyama DTech student at TUT: Civil **Engineering Department**
- 10. Mr Talent D Banda MTech student at TUT: Civil **Engineering Department**
- 11. Mr Ramogale C Sekwele prospective doctorate student
- 12. Mr Mabaso Magezi DTech student at TUT: Department of Environmental, Water and Earth Sciences (registration in progress)





Specific objectives contd.

2. To expose the team to Vaal and Umngeni basins' research needs and challenges, from a stakeholder's perspective









- 1. Prof Faizal Bux welcomed the participants in his capacity as Director of the Institute for Water and Wastewater Technology, DUT
- 2. Ms Kim Hodgson from Umgeni Water (Water Quality Management) presented information on uMngeni and Msunduzi catchments' raw water quality challenges, as well as the water quality management research needs





- 3. Rachi Rajagopaul, Sachita Budhram, Naheen Toolsee and Debbie Trollip from Umgeni Water (Process Services) presented on water and wastewater treatment process research needs
- 4. A tour of uMngeni catchment was facilitated by Umgeni Water at Nagle dam (Mr Shabeer Khan spoke on catchment and dam water quality and sampling while Mr Artwell Mhlope provided information regarding dam operation and management) many thanks)





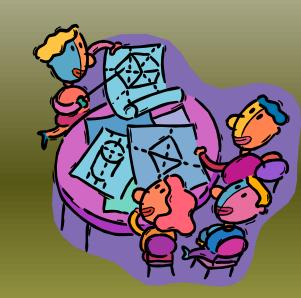
- 5. Prof Jannie Maree is the Rand Water Professorial Chair in Water Utilisation at Tshwane University of Technology (TUT), Department of Environmental, Water and Earth Sciences. He provided an overview of pollution challenges and on-going research activities in the Vaal basin
- 6. Prof Innocent Nhapi, provided a SADC water research perspective through the WaterNet Professorial Chair portfolio
- 7. Prof Thor-Axel Stenstrom provided an international perspective on water





Specific objectives contd.

3. To expose students to Postgraduate research tools and techniques







- 1. Prof Sibusiso Moyo, the Director of Research and Postgraduate Support at DUT, presented on postgraduate financial matters and DUT's research focus
- Dr Poovie Reddy, Head of Environmental Health and Community Health Studies at DUT, gave a talk on research methodology from an environmental perspective





- 3. Dr Josiah Adeyemo, Senior Lecturer at DUT Civil Eng. Depart. sensitised students to the importance of time management during postgraduate research and also talked about research design and methodology from an engineering perspective
- 4. Prof George M Ochieng', Associate Professor and Supervisor at Civil Eng. Depart. presented on importance of proper planning, data requirements and analysis, structure of dissertation and potential postgraduate student outputs





- 5. Prof Innocent Nhapi talked about literature review
- 6. Ms Avenal Finlayson, Postgraduate Librarian, exposed students and supervisors to Postgraduate facilities at DUT and conducted practical sessions







Specific objectives contd.

- 4. To critique students' work, all of which was still at proposal stage
- All delegates participated towards fulfilling this objective





15 AUGUST 2012

PRESENTATION SESSIONS

IN PICTURES









Making Knowledge Useful









16 AUGUST 2012

FIELD TOUR TO NAGLE DAM UMNGENI SUB-BASIN

IN PICTURES































Outputs:

Research Workshop Proceedings

Sponsorship:

- 1. Durban University of Technology
- 2. Rand Water Professorial Chair in Water Utilisation at Tshwane University of Technology

Future activities

A second Research Workshop is planned for early 2013 to report on progress



