PROVISION OF LABORATORY AND FIELD SUPPORT TO FOUNDATION GRANTEES AND 3RD PARTY SANITATION PRACTITIONERS IN THE DEVELOPMENT OF FAECAL SLUDGE MANAGEMENT SYSTEMS

UNIVERSITY OF KWAZULU-NATAL
INYUVESI YAKWAZULU-NATALI

PRG — pollution research group

Pollution Research Group, University of KwaZulu-Natal, Durban, South Africa

Prof Chris Buckley — PRG Head

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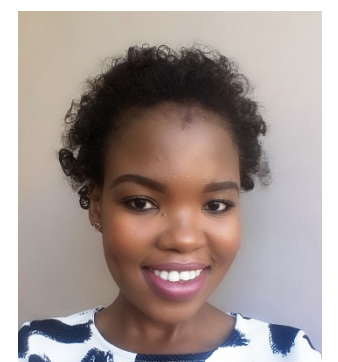**Dr Santiago Septien** — Project Engineer

Merlien Reddy — Laboratory Manager

Kerry Philp — Admin Manager

Kenn Jack — Workshop Manager

Lungi Zuma — EWS Engineer

OVERVIEW OF PROJECT

Funds have been provided for the upgrade and expansion of the Pollution Research Group (PRG) laboratories to improve health and safety aspects, enable the accommodation of a greater number of visiting researchers, and to increase the range of analyses that can undertaken. The time of the PRG staff members is also covered by the Grant, thereby reducing costs to sanitation practitioners (with priority given to other Grantees) working in the field of Faecal Sludge Management (FSM), who are then only responsible for covering running costs. The close relationship of the PRG with eThekwini Municipality - Water and Sanitation Division (EWS) provides an enabling environment for sanitation research.

SERVICES OFFERED

Access to different types of on-site sanitation systems and associated Faecal Sludge (FS).

Use of a fully equipped laboratory for the analysis of FS (including pathogens).

Determining the physical, chemical and biological properties of FS and other excreta streams (and sharing this data).

Laboratory training in FS analysis and advice on the establishment of a FS laboratory.

Access to experimental field sites for testing of prototypes in a controlled environment.

Collaborative research, assessment of sanitation technologies (STeP programme), consulting and capacity building.

ORGANISATIONS WE HAVE SUPPORTED

Agriprotein (SA)	Asian Institute of Technology (Thailand)
Bangladesh University of Engineering & Technology	Bath University (UK)
Beaumont (USA)	BORDA (Germany)
Bristol University (UK)	California Polytechnic University in Pomona (USA)
CDD (India)	Centre for Science and Environment (India)
CEPT University (India)	Climate Foundation (USA)
Cranfield University (UK)	CSTEP, Bangalore (India)
Duke University (USA)	Durban University of Technology (SA)
Eawag (Switzerland)	E3energy Partners (USA)
Egerton University (Kenya)	eThekwini Water and Sanitation (SA)
ETH Zurich (Switzerland)	Firmenich (Switzerland)
Hochschule Zittau-Görlitz (Germany)	Ifakara Health Institute – IHI (Tanzania)
INSA (France)	Imperial College, London (UK)
Isidima (SA)	Janicki Industries (USA)
Jimma University (Ethiopia)	Khanyisa Projects (SA)
Laval University (Canada)	Loughborough University (UK)
Makerere University (Uganda)	Mott Macdonald (UK)
Mzuzu University (Malawi)	Nanyang Technological University (Singapore)
North Carolina State University (USA)	North-West University (SA)
Oklahoma State University (USA)	Pan African University Institute of Water and Energy Sciences (PAUWES) (Algeria)
Partners in Development, PID (SA)	Plymouth Marine Laboratory (UK)
Research Triangle Institute (USA)	San Diego State University (USA)
Sanergy (Kenya)	SANTEC Company (USA)
SEI International (Sweden)	Stanford University (USA)
Swedish University of Agricultural Sciences (Sweden)	Synapse (USA)
TU Delft (The Netherlands)	Umea University (Sweden)
UNESCO IHE (The Netherlands)	Unilever (UK)
University of Botswana (Botswana)	University College, London (UK)
University of Cape Town (SA)	University of Colorado (USA)
University of Dar es Salaam (Tanzania)	University of Illinois (USA)
University of Malawi (Malawi)	University of McGill (Canada)
University of San Diego (USA)	University of Toronto (Canada)
University of Zambia (Zambia)	Wageningen (The Netherlands)
Water for People (Uganda)	Westminster University (UK)

BIGGEST CHALLENGES

- Delays in the construction of the upgraded laboratory
- Working within the confines of the University system
- Equipment breakdown and time to repair

http://prg.ukzn.ac.za