



Name: NNENESI KGABI

Current Appointment: Professor, Department of Civil and Environmental Engineering, Polytechnic of Namibia

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Area of Research/Teaching

Broad Field: Environmental Sciences - Earth and Atmospheric Sciences

Focus: Physical and chemical interactions in the lower atmosphere with special emphasis to Aerosol dynamics i.e. the formation, growth, movement, composition, and removal of aerosols in the troposphere. The air and water quality research conducted is relevant to, and often applied to human health, climate change adaptation and mitigation, as well as human welfare and development.

Research interests and direction: 1. Atmospheric Water-Climate Interactions: Mainly physical and chemical interactions in the troposphere, 2. Air Quality - Pollutant source apportionments and Atmospheric toxic/trace metals, 3. Environmental radioactivity (soil, water, air), and 4. Isotope studies.

Biography

Nnenedi Kgabi is a Professional Natural Scientist registered with the South African Council for Natural Scientific Professions, Environmental Assessment Practitioner - Environmental Assessment Practitioners Association of Namibia, Outcomes-Based Assessment Designer and Developer, Outcomes-Based Moderator and Assessor. Her academic preparation involved acquisition of PhD (Environmental Science), MSc (Physics), BSc Hon (Physics), and BSc ED (Chemistry & Physics); and several professional training certificates. She currently serves the Polytechnic of Namibia as Professor in the Department of Civil and Environmental Engineering.

Her eighteen years teaching experience includes offering of Environmental Engineering, Engineering Research Methodology, Water Treatment Technologies, Solid Waste Management, Thermofluids, Environmental Quality Management, Environmental Pollution Procedures, Environmental Pollution, Air Pollution and Noise, Water and Sanitation, Physics, and Electronics at undergraduate level; and Environmental Water Quality Processes, Principles of Aquatic Ecology, Water Quality and Environmental Management, and Research Methodology at masters level. Her research experience yielded several outputs including one Book, sixty peer-reviewed publications, several conference abstracts and presentations, sixteen government and/or industry reports, twenty nine Bachelor Honors research projects - supervision, fifteen Master Thesis supervision (5 graduated + 8 ongoing), and one PhD (ongoing).

During her professional preparation and service, Nnenedi earned her several awards, grants and recognition in the form of TWAS-UNESCO Associateship Award - The World Academy of

Sciences (TWAS) from 2012 to 2015; Polytechnic of Namibia, Institutional Research and Publications Grant (2011 - 2013); Polytechnic of Namibia Rector's Award for Institutional Researcher of the Year (2011); Best Faculty Researcher for School of Health and Applied Sciences (2011); UNESCO/ African Network for Scientific and Technological Institutions (ANSTI) Travel Grant (2010); The Finnish Environment Institute - Doctoral Studies Research Grant (2003 - 2005); National Research Foundation (NRF) – Women in Research Grant (2008 - 2009); National Research Foundation (NRF) – Researchers in Training Grant (2003 - 2007); Best PhD Presentation Award - 10th Joint Universities Postgraduate Student Symposium held at Potchefstroom University in December 2003; Best MSc Presentation Award in Applied Physics - 46th Annual Conference of the South African Institute of Physics, Natal University, July 2001.

Her project management and/or leadership abilities reflected in her duties as Member of the International Scientific Advisory Committee of the International Conference on Management of Natural Resources, Sustainable Development and Ecological Hazards organised by the Wessex Institute, Southampton, UK (2010 - 2015); Project Manager for Aerosol Particles in Southern Africa (APSA) – a joint research project by the North-West University and University of Helsinki in Finland (2006 - 2009); Team leader of the South African delegation to the Second International Union of Pure and Applied Physics (IUPAP) Conference on Women in Physics held in Rio de Janeiro, Brazil (2005); Member of the working group on Women in Physics in South Africa (WiPiSA), a committee of the South African Institute of Physics (SAIP) from 2005 to 2009; and Member of the Applied and Industrial Physics Interest Group (AIPSG) of the South African Institute of Physics (SAIP) (2002 – 2009).

She also demonstrated her research leadership and coordination at the Polytechnic of Namibia as Research Seminars Coordinator for School of Engineering (2014 - 2015); Research Change Agent (2014 - 2015); Initiator & Editor: PROGRESS Multidisciplinary Research Journal – ISSN: 2026 - 7096 (2011 - 2013); Chairperson of School of Health and Applied Sciences Research and Publications Committee (2010 - May 2012); Member of Institutional Higher Degrees Committee (2010 - May 2012); Organiser of the Annual School of Health and Applied Sciences Research Day (2012 - 2013); Coordinator of Departmental Research activities (2010 - 2013); and as Member of Institutional Higher Degrees Committee (2008 - 2009); Chairperson of the Faculty Research Committee (2007 - 2009); Coordinator for Postgraduate studies in the Faculty of Agriculture, Science and Technology at the North-West University, South Africa.