

KEYNOTE SPEAKER: YOGESH NARSING

Yogesh joined PPC in May 2013 as executive: special projects.

Prior to PPC, he was part of the Secretariat of the National Planning Commission (NPC), in the Presidency. At the NPC, he occupied the position of Sector Expert, tasked with the management and coordination of infrastructure, human settlements and the environmental aspects of the work of the NPC. He is a former executive director and MD of Yard Capital, an investment holding company, and has played various roles in the finance, investment, parastatal, academic and NGO sectors.

Yogesh hold a master's degree in education from Wits University and an MBA from Henley.

BANNISTER, MARK Department of Water Affairs

Bannister has been with the Department of Water Affairs since June 2009 to the present as Chief Engineer: Water Services. Bannister provides engineering support to the P&R Branch, Inc. Chief Dir.: Water Services, Regulation, Policy and Institutional Oversight. He is responsible for developing policies, guidelines and legislation documentation; guiding resolution of disputes between water service authorities and water boards; providing engineering solutions to issues at a local and national level; and providing technical support to the Minister of Water Affairs. He is also a specialist in issues pertaining to disability and environmental access issues.

Bannister is a very high profile and respected international professional/chartered engineer with a BEng (Honours) in Mechanical Engineering from Loughborough University (UK). He has some 23 years' experience in the planning, design and implementation of multi-disciplinary water and sanitation, health and education related programmes. His experience has given him excellent knowledge pertaining to water services delivery from 'tap to source', from National to Local Government and from urban to rural community level, culminating national legislative requirements, engineering and financial disciplines, social, human rights, gender and disability issues. In 2005, he also published a book entitled Eyes Wide Open, which relates his own experience of disability to educate and motivate others.

BELMONTE, HAL Aurecon



Dr Belmonte has a degree in Materials Science and Engineering and a PhD in Engineering (specialising in Composites, Fracture Mechanics and Materials modelling). Professionally, he is a Chartered Engineer with the Engineering Council of the UK and a Chartered Scientist with the Science Council of the UK. Dr Belmonte previously worked for Thames Water in the UK. His key knowledge lies in the field of materials engineering, determining the condition of pipe networks and failure investigations.

More recently, Dr Belmonte has been working in Infrastructure Asset Management at Aurecon for the last four years, from compiling asset registers to infrastructure asset management plans covering all the key sectors.

CHRYSTAL, CLINTON eThekweni Municipality



Chrystal's career objective is to work in a position where he can develop his existing skills in an environment that requires him to solve problems in an effective and creative manner. In the long term, Chrystal's objective is to gain experience in the field of coastal engineering and work on interesting and challenging projects. He has a BSc in Civil Engineering at the University of KwaZulu-Natal.

Chrystal has an MSc in Engineering (cum laude) from the University of KwaZulu-Natal. This research-based masters focused on the management of pollution through detection and mitigation.

Chrystal began studying a PhD in Engineering in April 2007, which he is still studying at the University of KwaZulu-Natal. The MSc was awarded with an upgrade to PhD level, however an opportunity in the field of coastal and fluid engineering became available and Chrystal decided to take on the new project. The research focused on the morphodynamics of the St Lucia and Mfolozi River estuary mouth systems. The PhD study has been presented at the South African Marine Science Symposium (SAMSS), the South African Network for Coastal and Oceanic Research (SANCOR) conference and the Mfolozi Indaba workshop 2010.

Chrystal is currently employed at eThekweni Municipality: Coastal Stormwater & Catchment Management. He has been the project manager on several interesting projects. These include rebuilding collapsed sea walls, the design of complex detention ponds, maintenance and rebuilding of Durban Central Piers and extension of stormwater culverts into the coastal zone.

COETZER, CASPER Aurecon



Coetzer is a technical director at Aurecon South Africa and office manager of the Rustenburg Satellite Office. He is also a Professional Engineer and has project management and design experience spanning three continents and ranging from major mixed-use developments in the United Arab Emirates (UAE), to major highway schemes in the United Kingdom (UK) and wastewater treatment works in South Africa. He holds a BEng degree from the University of Stellenbosch and is completing his research thesis for the degree MBA at the University of Stellenbosch Business School (USB).

Coetzer also has experience in design and coordination of civil services ranging from bulk water transfer schemes, wastewater treatment works, full civil services including water distribution, sewage collection, roads and pumping stations (foul and storm) for residential, housing developments, signature golf course developments and industrial developments in the UAE, UK and South Africa. His site-based experience includes railway infrastructure upgrades in the UK (West Coast Main Line), the upgrading of a dual carriageway intersection in Cape Town and low-cost housing infrastructure projects in Gauteng, South Africa.

DANIELS, JOHN GODFREY

Cape Agulhas
Municipality



Daniels graduated from Cape Peninsula University of Technology with a BTech in Construction Management. He joined Cape Agulhas Municipality in 2004 as a senior superintendent: Roads and Stormwater and was promoted in 2006 to manager: Roads and Stormwater. Before joining Cape Agulhas Municipality he worked for two construction companies for 10 years. Daniels is a member of the Institute of Municipal Engineering of Southern Africa. In 2012, he completed his BTech and wrote a thesis on labour-based asphaltting.

DA SILVA, VENANCE

Afri-coast
Engineers



Venance da Silva was born and matriculated in Port Elizabeth and graduated from the University of Natal with a BSc degree in Civil Engineering in 1981. He joined the Port Elizabeth Municipality in 1984 as a graduate engineer and was promoted to Assistant Water Engineer in 1989 and then to Head of Design in 1994. Venance registered as a Professional Engineer in 1991 and registered as a Professional Construction Manager in 2006. He founded Silva McGillivray Inc consulting engineers in 1997 and restructured the company now known as Afri-coast Engineers in 2000.

Venance serves as a director of Afri-coast Engineers, responsible for infrastructure development, planning, design and implementation. Venance is a past president of the Concrete Society of Southern Africa (2005/06) and is a member of the Institute of Municipal Engineering. Venance has worked in a multi-disciplinary engineering and management environment ranging from structural engineering, water, energy, transportation and asset management. Venance is the author on papers submitted on various aspects of asset management relating to concrete structures, pipelines and bridge infrastructure.

HELLBERG, LEON

Sivest

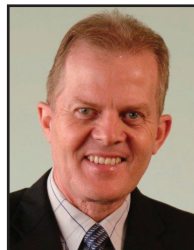


Hellberg was born in 1981 and grew up on a dairy farm near the town of Dundee in Northern KwaZulu-Natal. Schooled in the district, he went on to study BSc Civil Engineering at the Pietermaritzburg and Durban campuses of the (then) University of Natal, where he graduated in 2003. Upon graduation, Hellberg joined Stewart Scott as a junior design engineer, working on roads and water projects.

In 2005, Hellberg joined the SIVEST Civil Engineering Division, where he gained experience in water transfer, hydrology and stormwater design. Since 2008 he has headed up SIVEST's Specialist Water Services unit, which undertakes hydraulic, hydrological and sanitation modelling studies and the implementation of related construction projects.

MACLEOD, NEIL

eThekweni Municipality



Macleod was born and educated in Durban, South Africa. He graduated in 1972 with a BSc in Civil Engineering. Macleod is currently completing a PhD on the sustainable provision of water services to poor urban communities. Macleod is a fellow of the South African Institute of Civil Engineers (SAICE) and with the Institution of Municipal Engineers of South Africa (IMESA). He is also a member of The International Water Association (IWA) and the American Water Works Association (AWWA). Macleod has been the head of Water and Sanitation at the eThekweni Municipality since 1992 and overall has 39 years of experience in the Water and Sanitation sector. Macleod's fields of expertise lie in water supply: conservation, demand management, treatment and distribution; sanitation sewage collection and treatment and solid waste management; provision of water and sanitation services to poor communities; tariff design; public/private partnerships; and strategic management in the water sector and turnaround management.

MAUMELA, KHATHUTSHELO GODFREY

Rand
Water



Maumela (Pr Cert Eng) is an engineer and has 18 years' experience in various industries such as mining, energy and water. He is a certificated engineer according to the Mine Health and Safety Act, and professionally registered with the Engineering Council of Southern Africa (ECSA).

For the past 10 years, Maumela has held various positions within Rand Water, such as operations manager for Bulk Water Distribution, executive manager for Vereeniging Water Treatment Plant, business unit manager for Africa Operations as well as his current position being executive manager for Bulk Water Distribution.

He currently heads Rand Water's bulk water distribution, which is one of the largest and complex bulk water distribution networks in the country, supplying Gauteng, the economic heartland of South Africa. He has experience in working with metros and municipalities in South Africa as well as technical assistance to other water boards both locally and in other African countries such as Ghana, Mozambique, Malawi and Botswana.

MEIJER, LEO

Evides Water



Meijer was born and raised in the Netherlands. He completed his master's degree in Water Supply and Sanitation at Delft University in 2006.

In his master's thesis on waste water reuse for domestic water supply, the various methods of reuse and its costs and benefits were compared. Meijer is currently employed by Evides Water Company. Evides is a private company, with local municipalities as its shareholders and is the second largest water company in the Netherlands, supplying drinking water to a large portion of

the country. Meijer was a strategic advisor at Evides with a focus on investment planning, water demand forecasting, contingency planning, benchmarking, non-revenue water calculations and internal transfer pricing. In 2012 Meijer was seconded to Vitens Evides International.

Vitens Evides International is a shared daughter company between Evides and Vitens (the largest water supply company in the Netherlands) for the international affairs.

MOOIMAN, LINDSAY

George Municipality



Lindsay Mooiman is Head: Infrastructure Planning and Project Management in the Civil Engineering Services Department at George Municipality. She has a BTech degree in Civil Engineering and is a registered Professional Engineering Technologist. Lindsay has been employed in the Civil Engineering Services department for 10 years and has been head of the section for six years. She was previously also

Head: Bulk Services (Water and Waste Water Purification). Currently all aspects of the GIPTN planning function for George Municipality are included in her portfolio until a GIPTN unit has been established. She is a permanent member of both the technical and negotiation team for government. Mooiman started her career at the Department of Water Affairs in 1984 as an in-service trainee technician, but soon moved to the Department of Agriculture in the Soil Conservation Structures section. She has spent time in the private sector working for a civil construction company and has been part of the George Municipality's engineering team for the past 10 years.

MUSERERE, SIMON TAKAWIRA

Harare Water



Muserere holds a Bsc Hons in Civil Engineering from the University of Zimbabwe (1995). He is currently studying a MPhil in Wastewater Treatment: Modelling Fille Sewage Biological Nutrient Removal Treatment Process at the University of Zimbabwe. Muserere is a Co-operate Member of the Zimbabwe Institution of Engineers. He joined the city of Harare as an Engineer 4-1 in 1996. He is currently Harare Water's Wastewater Manager

and Coordinator, 24/7 Water Support Unit for Harare Water reform programme.

PIENAAR, MORNE

Aurecon



Pienaar is a civil engineer focusing on structural and municipal engineering in Aurecon's Port Elizabeth office. His experience includes designs, compilation of contract documentation, facilitation of the tender process, award of tenders, site monitoring, payments and commissioning of completed projects. He has worked on sewer reticulations, water reticulations, pipelines, pump stations, water and waste water treatment works

and desalination plants. He is an experienced Project Leader, who is skilled at leading multi-disciplinary teams, as well as the preparation of schedules, budgets and project reports. He has undertaken project work in South Africa, England and Uganda.

PRICE, GUY

Re-Solve

Price has been instrumental in the development and implementation of water loss management strategies for a number of municipalities in Southern Africa and Australia. As a water loss management specialist appointed by UN Habitat, Price has been involved in the development of Climate Change Adaptation and Mitigation Strategies for Small Scale Utilities in the Lake Victoria Region.

He project managed the development and implementation of water system loss management plans for a number of Eastern Australian municipalities in Queensland, Victoria and New South Wales and most recently for the Nelson Mandela Bay Municipality. In South Africa he has project managed and been the technical specialist for Water Demand Management (WDM) Projects for Rustenburg Local Municipality, Ekurhuleni Metropolitan Municipality, the City of Tshwane and Anglo Platinum Rustenburg Mine. He has also played an integral role in a variety of other local, national and sub-Saharan water demand management projects.

PURCHASE, ROGER BISMARCK

tpa Consulting CC



Roger Purchase has been involved in Pavement Management Systems (PMSs) and Road Asset Management Systems (RAMs) since 1988. In that time he has developed and operated several PMSs and RAMs for municipal authorities across South Africa. Purchase obtained his BSc in Civil Engineering from Witwatersrand University in 1982 and then a Graduate Diploma in Engineering (GDE) in 1987. His focus for most of his professional career has been on road and bridge construction, rehabilitation and maintenance.

Purchase has managed tpa Consulting since 1996. In that time the company has built a strong professional relationship with various municipal authorities and especially with the KwaZulu-Natal Department of Transport. He has been the Lead Consulting Engineer for the Ladysmith Region for the KwaZulu-Natal Department of Transport where he was responsible for developing business plans for a R200 million annual budget. He was Project Engineer on several road maintenance and upgrading contracts totalling R18 million in the Inanda/Ntuzuma area. Purchase has recently been a member of the COTO Committee tasked with redeveloping the Technical Methods for Highways (TMH9) Document for Standard Visual Assessment Procedures for Roads. He has previously co-presented a paper on "Managing Unpaved Roads in Urban Areas" for an International Conference.

RAMPHAO, MPHO

Aurecon



Ramphao is a Professional Engineer and works in the water sector of Aurecon. He is an Associate and Process Engineer specialising in the design and optimisation of water and wastewater treatment systems. He has developed expertise in the project management of these multi-disciplinary projects. He has sound skills in contract preparation and administration, both for traditional employer-designed contracts, and plant and design-build contracts. He obtained his BSc Engineering degree with honours from the University of Cape Town, and also MSc Engineering degree specialising in Water and Wastewater treatment. His experience ranges from design, construction, commissioning and operation, conventional facilities and nutrient removal treatment works, as well as membrane bioreactors, including research into biological treatment of wastewater treatment works. His expertise in wastewater treatment discipline include activated sludge treatment with biological nutrient removal, phosphorus precipitation, primary and secondary sedimentation, membrane bioreactor treatment and filtration, biological trickling filtration, anaerobic digestion, aerobic digestion of waste activated sludge, sludge dewatering, disinfection, and pumping. Further, he has experience in testing and commissioning of water and wastewater treatment equipment. In addition, Mpho was awarded 2011 Consulting Engineers South Africa's Young Engineer of the Year. His recent work in leading the design and implementation of the second municipal wastewater treatment MBR project in South Africa keeps him at the forefront of treatment technology.

RASIKHANYA, TENDA

Department of
Water Affairs (DWA)



Rasikhanya is employed by Department of Water Affairs as Chief Development Expert: Technical under Policy and Strategy Directorate. He has worked for 9 years in the water industry culminating potable and industrial water supply. His responsibilities have included project management of different phases of water treatment infrastructure and the evaluation of site water challenges for remedial treatment, project management for implementation of Regional Bulk Infrastructure Programme at Regional level. As a Graduate in Chemical engineering (B-Tech – Tshwane University of Technology), Rasikhanya is a Registered Professional Technician with the Engineering Council of South Africa.

RAYMER, DAVID

Uhambiso Consult



Raymer is a Professional Engineer with has extensive experience in all aspects of water management, having worked for the Port Elizabeth Municipality and Nelson Mandela Bay Municipality (NMBM) for 26 years. Since 2007 he has worked for Uhambiso Consult as a director and senior engineer, and has worked for many local authorities on water management projects. Raymer has co-authored a number of technical papers and published a book titled Streams of Life – The History of Port Elizabeth and Uitenhage's Water Supply.

ROSS, DUGALD

Re-Solve Consulting



Ross is a Professional Engineer who now serves as a Director of Re-Solve Consulting, focusing on project management and implementation of water demand management and water efficiency projects. Ross's engineering background and years of experience as a technical designer, project manager, programme manager, and accounts executive while in the employ of Rand Water have equipped him with a broad range of skills including the design, planning, implementation and commissioning of a wide range of technical, engineering and social projects. He has worked and interacted closely with many urban and rural municipalities around the country and also served as an accounts executive to some of the larger mines in South Africa, playing a vital role in ensuring service delivery to these clients. His experience has provided him with an acute understanding of the operations of these institutions as well as the constraints and challenges faced by these organisations to be able to provide engineering solutions to address any efficiency and engineering agenda.

SEIDEL, ANDREW

Underground Solutions

Seidel has been president and CEO of Underground Solutions since December 2005. Prior to that, he was employed as the president and CEO of, and then as a consultant to, USFilter Corporation, now known as Siemens Water Technologies (SWT), from August 2004 through to September 2005. SWT was acquired from USFilter by Siemens AG in August 2004. Seidel was employed by USFilter from its inception in 1991 until its acquisition by Siemens AG in 2004. He previously served on the Board of Directors of USFilter, Aqua America, Inc (formerly Philadelphia Suburban Water), National Waterworks, Inc. (prior to its acquisition by Home Depot in 2005), and as a director on the Management Board of France-based Veolia Environment. He presently serves on the Board of Directors of O'Brien & Gere, an employee-owned engineering and project delivery company, and Heckmann Corporation, an environmental services company. Seidel holds a bachelor's degree in Chemical Engineering and an MBA from the Wharton School at the University of Pennsylvania.

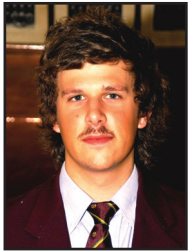
SHAND, MIKE

Aurecon



Shand graduated from the University of Cape Town and then undertook postgraduate studies at the University of California at Berkley. He then joined Ninham Shand in 1969 and for the next eight years worked at their CapeTown, Maseru, Port Elizabeth and Durban offices, as well as 18 months as resident engineer for the Xonxa Dam near Queens-town. He returned to Cape Town in 1977 and from then to 2005 he was responsible for hydrological and hydraulic design in Ninham Shand, including water resources planning, yield and flood hydrology, hydraulic design and model testing of spillways and other structures, stormwater management, floodline determination and the design of canals, bridges, pipelines and pump stations. He retired in 2006 but continued to provide specialist input on hydraulic, hydrological, water supply and water resources projects to Ninham Shand, and since 2009 to Aurecon, for which he currently works as a consultant.

VAN BAALEN, SAREL MIGAEL



Van Baalen is a BEng (Civil) graduate and MEng (Engineering Management) student at Stellenbosch University with a prominent interest in engineering management practices. He has delivered a prior manuscript with the title System Engineering during Civil Engineering Construction Projects in his final year of his BEng degree. Van Baalen's current research is related to municipal engineering with specific focus on the benefits of implementing organisational capacity self-assessments, an enabler for innovative capacity building initiatives and ultimate performance improvement. In 2012, he delivered project guidance to a final year BEng student, with the title, A Maturity Model to Evaluate the Engineering Capabilities of South African Municipalities. Van Baalen has done vacation work at various civil engineering consultancies, including Bigen Africa and BKS. In addition, he has acquired essential experience of the construction industry with frequent vacation work at Group Five Construction. In addition, he is also a Group Five bursary student. Van Baalen's wish is to pursue a career in civil engineering in both the public and private sectors. He will study towards a BComm (Law) degree from 2014 to 2017.

VAN RENEN, DUP IGNATIUS Afri-Coast Engineers



Dup van Renen matriculated at Swartland High School and graduated from the University of Stellenbosch with an honours BEng in Civil Engineering in 1975. He worked for Department of Water Affairs for five years and then joined the Uitenhage Municipality as Assistant Town Engineer (Water & Sanitation) in 1981. He started with the City Engineer's Department of Port Elizabeth Municipality in 1985 as Water Engineer (Planning & Design). After 13 years, he joined the newly formed Silva McGillivray Inc consulting engineers as a Director. In 2000 the company was restructured into the now known Afri-Coast Engineers. Van Renen serves as a director of Afri-Coast Engineers, responsible for water and sanitation projects and the management of the company's concrete durability laboratory. He registered as a Professional Engineer in 1980 and was the first chairman of the IMESA East Cape Branch when formed in 1997. Van Renen has been a part-time lecturer for 11 years until 1998 at Port Elizabeth Technikon on various water related courses for BTech students. Recently he has been lecturing nationally for the SAICE Candidate Academy on a Pressure Pipeline Design course. Van Renen is the author and presenter of papers on water conservation and demand management and structural deterioration and rehabilitation.

VIENINGS, ADRIENNE Water Concepts



Adrienne Vienings qualified as a civil engineer from the University of Cape Town in 1989. Since qualifying, Vienings has exclusively worked in the water sector, giving her 23 years' of experience in NGOs, government and the private sector. The first few years of her career were spent working with rural communities in Limpopo managing the construction of spring protection, ferro-cement

tanks, small water networks and the rehabilitation of boreholes and handpumps. In 1994 she moved to the Standing Committee on Water Supply and Sanitation (SCOWSAS) to support the development of the White Paper on Water Supply and Sanitation. It was a natural transition to then work full time for the Department of Water Affairs (DWA) to continue delivering services to rural communities. In 2000 Vienings took up a contract with the UK's Department for International Development (DfID) and, based in SALGA, supported local government in the transfer of water works from DWA to local government.

In 2005 she moved to the private sector working for three years in municipal revenue enhancement. Since 2008 she has done water and sewer master planning for the City of Tshwane. It was during this time that Water Concepts won a contract from the WRC to research the skills gap in the South African public water sector.

WALL, KEVIN

CSIR



Wall is a civil engineer and town planner and was, until recently, a Built Environment Fellow of the Council for Scientific and Industrial Research (CSIR), but is now contracted to the CSIR. He has for many years been a Fellow of IMESA. He is also a Past President of the South African Institution of Civil Engineering (SAICE) and a Fellow of the South African Academy of Engineering. Much of his recent work has been on the effectiveness

of government spending on infrastructure and ways to improve the quality, reliability and sustainability of that infrastructure. During the course of this year he was deployed to play a coordination role in Strategic Integrated Project 14, which is the SIP for higher education and training infrastructure.

Posts that he has held in the past include:

- Director of Ninham Shand consulting engineers
- Assistant City Engineer responsible for the development of low-cost housing areas for the City of Cape Town
- CEO of a non-profit housing development company.

ZANNONI, EDOARDO

Maccaferri



Zannoni completed his BSc in Civil Engineering and MSc in Environmental Engineering in Rome-Tre University in Rome, completing his degrees in 2008. He moved to South Africa in 2009 and is currently the Business Development Manager: Geosynthetics at Maccaferri Southern Africa. He has been part of the technical team assisting in hydraulic, coastal application and soil – basal reinforcement solutions. He is specialising in the

field of soil reinforcement, basal reinforcement and pavement solutions through the use of geosynthetics. He is a member of the Geosynthetics Interest Group of South Africa (GIGSA) as vice president, the International Geosynthetics Society (IGS) as a committee member and a member of the South African Institution of Civil Engineering (SAICE). He is actively involved in SABS subcommittee SC 81E: Geosynthetics and in international conferences with publications and papers on geosynthetics and geotechnical engineering.