



# AFRICAN CAPITAL CITIES SUSTAINABILITY FORUM

**25 June 2019, 09:00 – 13:00**

## **Buying better: Sustainable Public Procurement in South Africa Sustainable Public Procurement (SPP)**

SPP allows government to lead by example and use its market power to benefit the environment and society for cities and the country's economy. Join this session to learn more about SPP and learn how supply chain in cities are working to integrate SPP in to their purchasing practices.

Facilitator: Rebecca Cameron

### Programme & Speakers (TBC)

- 15 mins – MMC –City of Tshwane
- 30 mins – Why do we need Sustainable Public Procurement? - ICLEI
- 15 mins – A vision for SPP in the City of Tshwane – Tshwane
- 15 mins – Launch of South African SPP Network - Tshwane
- 60 mins – Implementing SPP – learning from pioneers - :
  - a) City of Ekurhuleni (TBC)
  - b) City of Johannesburg (TBC)
  - c) City of Cape Town (TBC)
- 30 mins – Implementing SPP in your organisation
- 15 mins – Close and Way forward

**26 June, 09:00 – 13:00**

## **Pathways to Net Zero Buildings in Tshwane: New developments and existing building**

As the world gears to limit global warming to 1.5 degrees, the City of Tshwane has committed to net zero buildings for new buildings by 2030 and for all buildings by 2050. This highly ambitious goal will require a re-calibrating of current practices and financing in the built environment. Join in to learn about a future with net zero buildings and help the City of Tshwane chart a way forward to get there!

Facilitator: Rebecca Cameron

### Programme & Speakers (TBC)

- MMC – City of Tshwane
- 15 mins - Welcome – Tshwane – MMC: Spatial Planning and Economic Development
- 30 mins - Where we are:
  - Building Efficiency in Africa – ICLEI Africa (Rebecca Cameron)/GBCSA (Hlompho Vivian)
  - City of Tshwane: Building Efficiency Commitments and net zero pathways - Overview of buildings and climate impacts and green buildings in Tshwane - Tshwane (Kedibone Modiselle) & C40 (Stanley Nyanyirai)
- 30 mins - What a net zero future could look like: Introduction to net zero buildings & Net Zero Declaration – WRI (TBC)/Tshwane (Kedibone Modiselle)
- 90 mins - Pathways to net zero (Market place):
  - Certification & Tools: GBCSA (Hlompho Vivian) & WRI (TBC)
  - Finance: ICLEI Africa (Avuyile Kewana) /Nedbank/IFC (Lenore Cairncross)
  - Building Codes & Policy: Tshwane and/or CSIR (TBC)/DPW (TBC)
- 60 mins - Action Plan: Pathways and Prioritisation: ICLEI Africa
- 15 mins – Close and Way forward: City of Tshwane (Kedibone Modiselle)

## 26 June 2019, 09:00 – 13:00 Urban Safety

Urban safety goes beyond having an effective police service, but rather includes wide social, economic and environmental determinants, such as urban form, environmental design, state and form of service delivery, income and employment, collective engagement in crime prevention and management, mobility strategies and social perceptions of crime. These factors are well linked to urban sustainability agendas of reduced poverty and inequality, and increased environmental restoration. Improving the wellbeing of urban citizens requires capitalising on these linkages to improve urban sustainability in manners that also contribute to improved urban safety. This requires that we mainstream concepts of sustainability and urban safety across municipal functions and draw in community actors. This session explores opportunities for doing so.

Facilitator: TBC

### Programme & Speakers (TBC)

MMC – City of Tshwane

Five 10 minute provocative presentations which explore Urban Safety from different perspectives:

- Police Service Roles & Responsibility
- Urban Form & Spatial Planning
- Community Safety Programmes
- Using Technology for improved safety (eg. solar street lighting; ...)
- Using Technology for crime reporting, data aggregation and targeted use.

One 15 minutes presentation on thinking about urban safety holistically

1 hour interactive session on:

- how urban safety affects different people and communities
- how urban safety can be addressed for each scenario
- how a holistic concept of urban safety can be mainstreamed across municipal sectors and into community organisations

1 hour section on embedding urban safety into wider sustainability efforts

30 minutes guided discussion about learnings from the session, how each of the participants relate to the ideas discussed, and how we should take the outcomes further (together / as organisations)

## 26 June 2019, 09:00 – 13:00 Planning for Resilient Cities

Facilitator: Samuel Chademana, Tshwane C40 Climate Advisor

### Programme & Speakers

Introduction: Seminar objectives Samuel Chademana, Tshwane C40 Climate Advisor

MMC: Environmental Management: Richard Moheta

Profiling South African cities and towns: A future perspective

Socio-economic, spatial trends and pressures - Amy Pieterse, Researcher, CSIR Smart Places

The impact of climate change on the intensity and frequency of hazards and on our critical resources

National trends, spatial trends and pressures - Amy Pieterse, Researcher, CSIR Smart Places

Policy environment in South Africa for adaptation - Anthea Stephens, National Treasury, City Support Programme

eThekweni experiences and lessons learnt - Nongcebo Hlongwa, eThekweni Metropolitan Municipality

Adaptation planning and co-benefits - Paul Jorgensen | Project Manager, Climate Action Planning Africa

Santam – responding to risk

DEA – Cities Resilience Index

Discussion

## **Seeking greater synergy: Climate Change challenges and Environmental Health in Cities** **26 June, 09:00 – 13:00**

As we gear towards World Environmental Health Day on 26 Sept 2019, it is timely that the International Federation of Environmental Health declared the theme for this day in 2019: "Climate change challenges, time for global Environmental Health to act in unison." This is a call for greater synergies between Environmental Health policy and practice, Climate change policy and action and urban planning to enhance urban societies' resilience in the face of climate change risks and impacts. Environmental Health Practitioners to play a pivotal role in adaptation strategies and measures to protect vulnerable communities against the challenges of climate variability at a grassroots level. The City of Tshwane's Vulnerability Assessment highlighted heat, floods, hail storms and drought as the key climate change related impacts on public health. These issues are shared by many African Cities. How can Cities improve response to the impacts of climatic events and be more proactive in planning to address environmental health issues as they relate to Climate Change?

Moderator: Timothy Blatch, ICLEI Africa  
Rapporteur: Ernita van Wyk, ICLEI Africa

### Programme & Speakers

#### **Welcome and Opening Remarks (9:00-9:05)**

- o Session opening by Member of the Mayoral Committee- Health, City of Tshwane: Alderman Anniruth Kissoonduth (Derrick)

#### **Setting the Scene: Policy Context (9:05-9:40)**

Facilitator: Dr. Sylvia Lutendo Mudau Senior Lecturer: Tshwane University of Technology

Speakers (10 min presentations each):

- o Dr Caradee Wright: Environmental determinants of health: global and local evidence in a changing climate
- o Mr Murdock Ramathuba: National Health Climate Change and adaptation Policy
- o Mr Sello Jerry Motsamai: Tshwane pilot Ward based outreach team to strengthen Environmental Health Service delivery

#### **Climate Change <> Public Health: State of Knowledge and Novel Approaches (9:40-10:15)**

Facilitator: Dr. Joyce Shirinde Senior Lecturer: University of Pretoria

Speakers (7 mins presentations each):

- o Dr Bukola Olutola: Results on air pollution and health effects in the Highveld and Vaal Triangle Air Pollution Priority area
- o Mr Christian Lokotola: Results on the temperature effect modification of air pollution effects on respiratory disease hospital admissions in Cape Town
- o Mr Adewale Adeyemi: Results on PM2.5 and its chemical species and sources in Pretoria (Apr 2017 to Apr 2018) and his epi study results using private hosp adm data
- o Malebo Letsoale (MPH): The association between children's respiratory symptoms and indoor air quality at day care centres in Mabopane, Tshwane District Municipality
- o Dr Lorena Pasquini: Heat-related health impacts in Dar es Salaam City

#### -----Tea Break (10:15-10:30)-----

#### **Barriers and Opportunities to Climate Change Mitigation and Adaptation (10:30-10:45)**

Facilitator: Boitumelo Modikoe Environmental Health Practitioner, Technical Support: City of Tshwane

Speakers (10-15 min presentation):

- o Mr Dan Hlanyane: Barriers and opportunities to Climate Change mitigation and adaptation in context of environmental health.

#### **Policy & Planning Responses and New Directions: What is required for effective response to Climate related health risks? (10:45-11:15)**

Facilitator: Dr. Gomotsegang Fred Molelekwa Research Associate- Research and Innovation: Faculty of Science, Tshwane University of Technology

Speakers (10-15 mins presentations each):

- o Dr Thabiso John Morodi: Environmental health and climate change response actions to enhance adaptation
- o Prof Andrea Rother: Negotiating the urban climate change and environmental health intersect

#### **The Way Forward: Panel Discussion (11:15-12:20)**

Facilitator: Timothy Blatch Professional Officer- Urban Development, ICLEI Africa

Panelists: Dr. Caradee Wright, Mr. Murdock Ramathuba, Mr. Dan Hlanyane, Dr. Joyce Shirinde, Dr. Thabiso John Morodi

#### **Vote of Thanks (12:20-12:30)**

Group Head Health Department: Mr. Keena Nkoko



### **Urban Health Project leader**

Boitumelo Norah Modikoe is an Environmental Health Practitioner, employed by the City of Tshwane. She is responsible for coordination of Environmental health initiatives within Municipal Health services, events management, coordination of training and Continuous development programmes for Environmental health practitioners, liason with other local Municipality and promotion of Environmental health and health programmes within the City. She hold, National Diploma, Btech in Environmental health, supervisory course certificate, Advanced certificate in health management and environmental health and

management related short courses. She plays an active role in Environmental Health activities within Gauteng Environmental Health as well as National Department of Health. She is the founding Secretary of the National Association of Environmental Health in South Africa and is responsible for advocating for Environmental Health as a profession and a course to preventative health. She represent Health Department as climate change agent and is actively involved in climate change related activities within the city.



Caradee Wright is a Senior Specialist Scientist at the South African Medical Research Council leading the Climate and Health Research Programme. She is also an Adjunct Lecturer at the University of Pretoria, Research Associate at Nelson Mandela Metropolitan University and Associate Professor at the University of Johannesburg. She holds a PhD in Public Health from the University of Otago (New Zealand) and a Masters in Geography and Environmental Management from the University of Natal (now UKZN). Her research focuses on environmental health in Africa, including personal solar ultraviolet radiation exposure

and skin cancer prevention, personal dosimetry, health risk assessment and air pollution-related exposure, disease measurement and prevention. Caradee is a member of the South African Young Academy of Science and was co-chair of this organisation from 2011-2013. She is a member of the Global Young Academy, past Vice-President of the National Association for Clean Air, past Co-Editor of the Clean Air Journal, Associate Editor of Photochemistry and Photobiology as well as BMC Public Health, and is a National Research Foundation of South Africa C-2 Rated Researcher.



Murdock Ramathuba is a National Director in the National Department of Health since 2016. He worked as a Regional Director: Port Health Services (Central Region consisting of Gauteng, Free State and Northern Cape Provinces) in the same Department. Mr Ramathuba worked as both Assistant Director and Deputy Director in the National Department of Health since 2006. He also worked as an operational EHP in the Provincial Department of Health as well as the Makhado Local Municipality and Vhembe District. Mr Ramathuba has a B Tech Degree in Environmental Health from TUT, Labour Relations certificate from Unisa, Project Management from Regenysis and other task relevant certificates. He has worked as a Regional Chairperson for

South African Institute of Environmental Health, Provincial Secretary and National Council lot of same. He is the founder President of the National Association of Environmental Health in South Africa. He served as Chairperson and Deputy Chair Person of the Advisory board of Tshwane University of

Technology and also served and led various community/social structures such as school Governing bodies and others. He has participated and in some cases processes of developing the current Environmental Health Regulations, Policies, guidelines, Norms and Standards



Sello Jerry Motsamai is a Director for Municipal Health Services in the City of Tshwane. He started working as a Health Inspector in Soshanguve under the Department of National Health and population Development (1988). He specialised in Youth Development, Clean-up Campaigns, leading the Keep South Africa Beautiful and Zibi structures. He later joined the then Atteridgeville City Council (1990). In 1995 he joined City Council of Pretoria following the amalgamation of City Councils. He represented the City in the Fellowships Programme: Safer and Healthier Cities, in Netherlands (2000) and attended Advanced Professional Training in Air and Noise Protection course in Munich, Germany (2003). He was appointed as the Director in 2004 and oversaw the establishment of the ambient Air Quality Stations and the development of the four bylaws in the City. He acquired amongst others SAMTRAC certificate (2000), Labour Relations Management (Unisa 2013), Advanced Project Management (Tuks 1999); Executive Leadership Programme (Tuks 2004); Advanced Certificate in Health Management (FPD 2019), B-tech Degree in Environmental Health (Tech Pta, 1996). He is the current Chairperson of the Gauteng Environmental Health Managers Forum and holds various positions in community and social structures.



**Dr Bukola G. Olutola**

Dr Bukola Olutola is an Epidemiologist and a Public Health researcher focussing on the health effects of air pollution.



Lokotola Christian Lueme is a junior researcher in Public Health. He has a Master's Degree in Public Health and he is a PhD candidate at the University of Pretoria, School of Health System and Public Health, Faculty of Health Sciences. His field of research covers Climate Change and Health. He has investigated the effect of climate change and re-emerging of neglected diseases, case of malaria in non-endemic zones in South Africa.

His current research focuses on interaction effect of climate change patterns and air pollution on human health in the city of Cape Town, Johannesburg and Durban, using novel modelling approach of environmental exposures and risks with Distributed Lag Non-Linear framework analysis (DLNM) and Hysplit model for health impact of Long-Range Transport of air pollution. He has good skill in research methodology and he has collaborated in many research

projects such as assessing patient waiting time in South African hospitals, Clinics and Primary Health Care in the entire country, and HIV patients' adherence to ART.



Adeyemi Adewale is currently a doctoral student at the School of Health Systems and Public Health, Faculty of Health sciences, University of Pretoria, also a Research Fellow at Forestry Research Institute of Nigeria. Mr Adeyemi hold a master of public health (Environmental health) from the University of Ibadan Nigeria. His research focus is on air pollution and health.



Malebo Letsoalo holds an Honours degree in Environmental Management from UNISA. She is currently a Masters student in Public Health at the University of Pretoria undertaking research on the association between children's respiratory symptoms and indoor air quality at day care centres in Mabopane, Tshwane District Municipality. She is currently employed as a professional sales representative at a pharmaceutical company.



Hlanyane Tsunke Daniel qualified as Environmental Health Practitioner in 1993 conferred by Peninsula Technikon, B-tech Environmental Health from Tshwane University of Technology in 2008. He poses different certificates relating to Environmental Health, integrated waste management, disaster risk assessment, Indoor air quality, Municipal financial management programme. He worked as Health inspector at Leandra local municipality in 1994 till 2000, then joined Govern Mbeki local Municipality in 2000 as a manager. In 2005 he was appointed as Chief District officer of Gert Sibande District Municipality, promoted to senior manager in 2007 to be responsible for IDP, disaster management services and planning. In 2011 He was appointed as senior manager for Municipal Health services in the same district municipality. He is known for being passionate about his Profession and actively participates in the transformation of Environmental Health.



Dr Thabiso Morodi is the Head of Department in the Faculty of Science, Environmental Health Department at Tshwane University of Technology. Dr TJ Morodi holds a PhD in Applied Ethics from the University of Stellenbosch,

majoring in Environmental Ethics. In addition to heading the department, Dr Thabiso Morodi is also lecturing the following subjects: Introduction to Environmental Health, with subjects including Introduction to Professional and Applied Ethics, Introduction to Waste Management, Community Development, Introduction to Occupational health and Safety, Introduction to Pollution Control, Introduction to Food Safety and Hygiene.



Lorena Pasquini works as a Research Fellow at the Climate Systems Analysis Group, and at the African Climate & Development Initiative, of the University of Cape Town. She is also a World Social Science Fellow in Sustainable Urbanization (International Social Science Council). Some of her current areas of work and expertise on climate change adaptation include: climate change health impacts and vulnerability; governance of climate change issues at local government, urban and policy-making levels; climate change psychology, engagement, communication and behaviour change; transformations to sustainability. She has a doctorate from the University of Sheffield (UK), and has a background working as a researcher, consultant and practitioner on a variety of interdisciplinary issues located at the society/environment nexus. In the past Lorena Pasquini worked for one of South Africa's leading Expanded Public Works Programmes, where she developed first-hand experience of the realities of adapting the country to the impacts of climate change.



Professor Andrea Rother is Head of the Environmental Health Division in the School of Public Health and Family Medicine at the University of Cape Town (UCTs), South Africa. She is an environmental health specialist with over 25 years of research, teaching and policy analysis experience. Prof Rother developed and is the convenor of UCT's Master of Public Health Environmental Health Track and the Postgraduate Diploma in Pesticide Risk Management. She is a member of the South African government's Multi-stakeholder Committee on Chemicals Management and the South African Bureau of Standards Pesticide Technical Committee. Prof Rother is also a WHO expert advisor and current chair of the FAO/WHO Joint Meeting on Pesticide Management. She was a steering committee member of UNEP's Global Chemical Outlook II (<https://youtu.be/Fhn9rwAel58>). She has published extensively on environmental health and climate change related issues, as well as developed multiple risk communication materials for policy makers, environmental health practitioners/community health workers and the public.