

SOLID WASTE MANAGEMENT HYBRID CONFERENCE

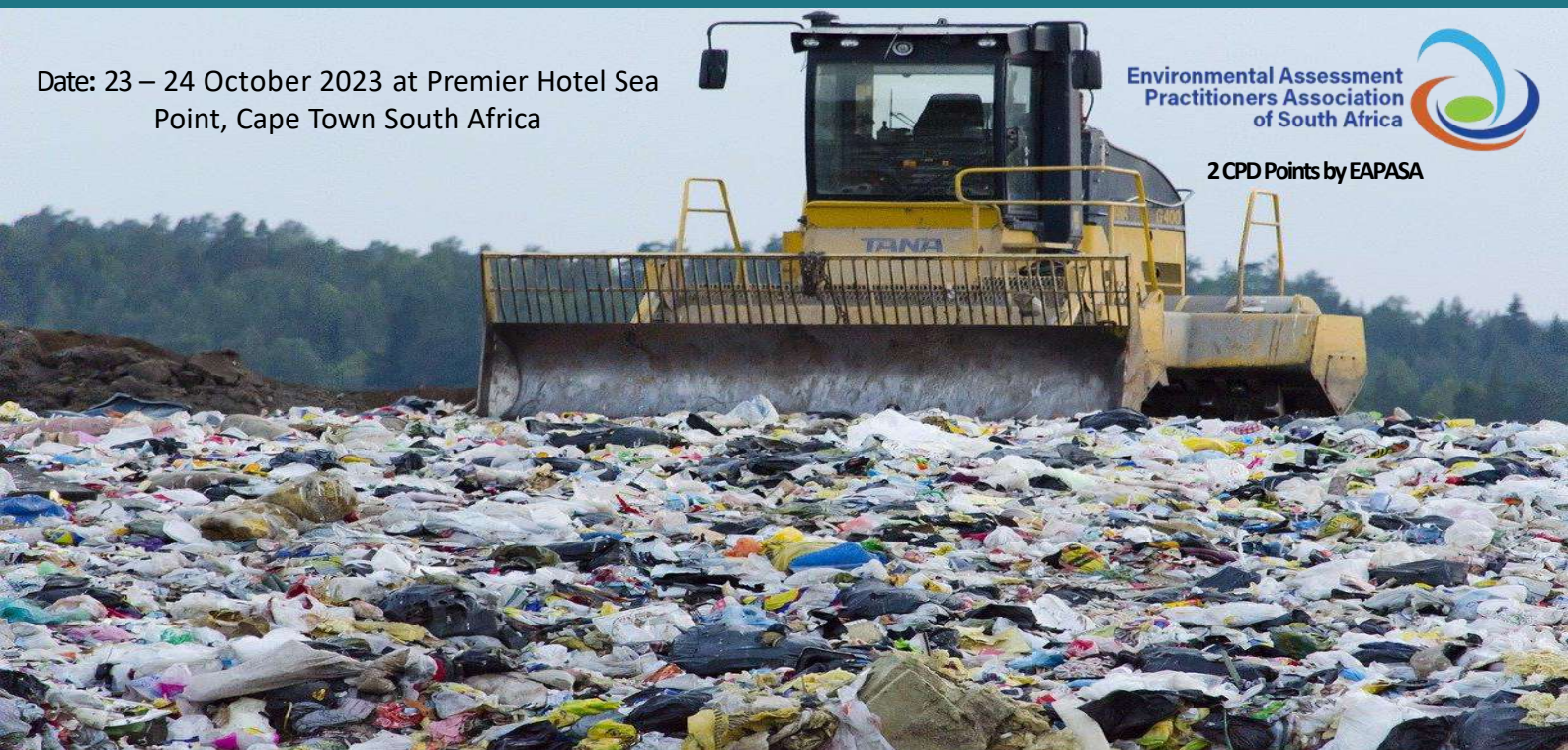
“Identifying the Value in the Waste”

2CPD Points by EAPASA

Date: 23 – 24 October 2023 at Premier Hotel Sea Point, Cape Town South Africa



2 CPD Points by EAPASA



Introduction

Every year the world produces over two billion tonnes of municipal solid waste, which is enough to fill 822,000 Olympic-size swimming pools.

With increasing population, urbanization and expanding economic activities, solid waste disposal and management is a challenge in Africa. Waste is one of the biggest challenges faced by the world today, and the future of solid waste management depends on every single individual. Although government authorities, leaders of the nations, municipalities and local communities are working hard to manage the extensive amount of waste generated every day, a radical change in mindset at an individual level is the need of the hour. On a broader note, improper waste disposal and management, which includes public littering, lack of waste segregation, uncontrolled collection and disposal and poor waste treatment practices, have greatly impacted the world.

This conference on Solid Waste Management will enlighten the state of the art in technology, organizational and legislative developments and practices of handling solid wastes globally. An in-depth of the financial burdens and benefits as well as solutions to Transforming African economies to sustainable and circular models will be discussed. The presentations will help the delegates to make informed decisions in their professional activities, it will assist them in defining and implementing integrated solutions to the challenges posed by solid wastes in urban environment.

The conference will support participants to establish a solid waste management system that is capable of functioning not only in situations where sufficient resources are available but also under the more challenging conditions usually prevailing in cities in low income countries. The conference seeks to highlight & address alternatives to revolutionize what we do with garbage. Reduce, reuse, recycle.

Rethink solid waste & landfill management, they should no longer be considered as static end-stations for obsolete materials, but rather as dynamic resource reservoirs to be unlocked, and bring about a more sustainable environment, green economy for future generations.

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SOLID WASTE MANAGEMENT HYBRID CONFERENCE SPEAKERS



Shérie 'Palesa' de Wet - Founder and CEO of Palesa Pads, Shérie was inspired to empower women and young girls by providing them with an inexpensive and sustainable solution to restore their dignity. In 2017, together with her team, Shérie set out on a mission to put an end to period poverty in South Africa and beyond, through the manufacture and distribution of high-quality reusable sanitary pads that can be washed and used again each month.



Caroline Pepermans - Owner at Pepermans Legal Consulting completed her BSc: Entomology and LLB at the University of Pretoria with the view of specialising in environmental law. She proceeded to completed her LLM in Environmental Law at the University of Nottingham in the United Kingdom having been awarded a Chevening Scholarship, during which time she gained knowledge in International environmental conventions and European Union Environmental Directives. Caroline has acted for large local and international corporations in matters relating to compliance with environmental & mining legislation. She is responsible for drafting various environmental and mining legal opinions as well as providing advice on administrative law in respect of environmental and mining law. She also provides advice as to environmental indemnities & warranties and is responsible for environmental legal compliance assessment audits & strategising together with clients the most beneficial & practicable manner in achieving environmental & mining legal compliance.



Delanie Bezuidenhout - General Manager at My Walk made with Soul I have been actively involved in sustainability initiatives in South Africa since 2008. I am the authority on the recycling of single use products in the healthcare environment in South Africa and have almost 10 years' experience in this field. I am the general manager of the "My Walk Made with Soul" project in South Africa. This project, funded and supported by Netcare Holdings and Adcock Ingram Critical Care,

collects recyclable and non-hazardous IV drip bags, oxygen masks and oxygen tubing from numerous hospitals in South Africa, processes the material at its own factory where it is made into durable shiny school shoes ready for donation to children in need! To date we have recycled nearly 80 000kgs of healthcare waste that would have ended up in hazardous landfill sites. We have donated more than 100 000 pairs of shoes nationally!



Tadiwanashe (Tiwa) Dune - Project Manager, National Cleaner Production Centre. Tiwa is an experienced Senior Environmental Scientist with a demonstrated history of leading waste projects in the environmental management industry. This includes development and review of Integrated Waste Management Plans, Landfill Site Auditing, Regional Landfill Feasibility Studies, Industrial Symbiosis Feasibility Studies as well as Waste Management Compliance. Since recently joining the NCPC-SA as a Project Manager, she has focused on conducting Waste Assessments for the Industrial Symbiosis Programme. She is registered as a Professional Environmental Scientist with the South African Council for Natural Scientific Professionals (Pr.Sci.Nat, SACNASP) with a Master of Environmental Science (M.Sc. Environmental Science) from Wits University.



Ronald has over 15-years work and technical advisory experience of initiatives in the sustainability, climate resilience, climate change & environment sector with proven expertise in sustainability management & mainstreaming sustainable development across the public, private & non-governmental sectors. He brings a combination of commercial, technical & donor experience gained through carrying out development evaluations for govts, the private sector & civil society organizations in the environmental, climate change, social & economic development fields in various regions of the globe.



Sylvia Watson (Rossouw) is a multi-disciplinary graduate and Professional Architect. She co-founded Zero Waste to Landfill (Pty) Ltd in 2022, with her friend and mentor, Miriam Boes. She is actively involved in the community of Swellendam, as eco-volunteer. Sylvia is an eco-volunteer in Swellendam, where she works closely with the local Municipality and eco-volunteers to promote "green living" and re-thinking "waste". Sylvia is currently a director and Principle Architect at RW Architects, Oubaai Golf Estate, George, Western Cape and to Co-director at Zero Waste to Landfill (Pty) Ltd, Swellendam, Western Cape.



Rebecca Henderson - Environmental Project Management, Research & Communications at WasteAid.



Marvelous Nengovhela - Director/Specialist of Waste Management at SALGA South Africa. Mr Balanganani (Marvelous) Nengovhela has approximately 20 years' experience in waste management, both in public and private sector. He is currently working for the South African Local Government Association (SALGA) as a Specialist responsible for Solid Waste Management. SALGA is the organisation which has been established to support, advice and represent all 257 municipalities in South Africa. Prior joining SALGA, Nengovhela has worked for the City of Johannesburg, Department of Forestry, Fishers, and Environment, GDARD and Enviro-Fill. In terms of educational qualification, Mr Nengovhela has a BSc Honours in Environmental Management from the University of South Africa.



Dr. Linus Naik
Head of Sustainability and Business Development at Don't Waste Group | PhD (Chemical Engineering)
Net Zero Accredited Professional
ThinkEcoDesign (Pty) Ltd | South Africa



Eng Simon Bere
Group Chief Strategy Officer at SBIC Group | Chief Research Scientist at SEMEDS Environmental and Economic Development Consultants in Zimbabwe. Simon Bere has more than 25 years' experience working with leaders and managers and their companies, organizations and business in different roles and areas including consulting, strategy, planning, performance and results transformation, skills development, performance management, training, environment, organisations and economy. Simon Bere's core strengths are his ability to bring new and different perspectives to issues and situations, developing new and original solutions to problems and his ability to view things at systems, holistic, integrated way. Simon Bere is well read and he draws from many bodies of knowledge to helping individuals and companies in solving problems and achieving goals.



Adriaan Van Wyk - Head of Projects at Polyco
Adriaan studied at University of Stellenbosch in 2009 B.Agr Cellar Management & 2010 B.Comm Honours in Commerce. 5 years' experience in Retail Distribution focused on packaging improvement, reuse, recycling & improving sustainability. He is currently Head of Projects at Polyco with a focus on growing capacity in the recycling & collections space by managing business investments.



Shona McDonald - Founder of ShonaquipSE Africa's only ISO 13485 certified wheelchair manufacturer and South Africa's first Hybrid Social Enterprise. Shona was recently nominated to the Board of International Society Wheelchair Professionals, is a technical advisor to CHAI, worked with WHO on development of recently published Wheelchair Provision Guidelines, and consults to the Technical Advisory Group of USAID and UNICEF's Advancing Nutrition program. Her life's work, and company's origin was inspired by her daughter, Shelly, who was born with cerebral palsy. Her family experienced first-hand how difficult it was to find appropriate assistive devices and support services. When Shona, together with a Biomedical Engineering technician at UCT built her first pediatric posture support wheelchair in 1984 she quickly realized that wheelchairs were about more than transport and more than ensuring that children did not develop secondary health complications; wheelchairs were about independence, dignity, access to choice, school, social inclusion, justice and human rights. She holds Schwab, Ashoka, Paul Harris, CASMI and RESNA Fellowships



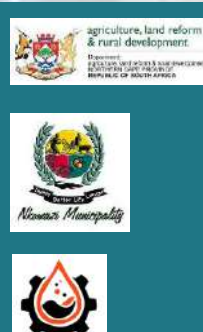
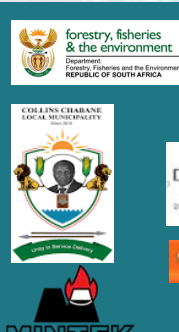
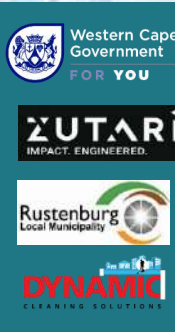
Velaphi Mabiletsa - Director of Integrated Planning and Waste Strategy for the City of Cape Town

Velaphi Mabiletsa is the newly appointed Director of Integrated Planning and Waste Strategy for the City of Cape Town. He comes with extensive experience in the private sectors inclining automotive, General assembly, Mining and the Marine industries.



Dr. Gamuchirai Mutezo - Founder at Madam Waste Urban and Energy Planners II Post Doctoral Fellow at the University of Johannesburg's CEI African Circular Business Alliance (ACBA). Gamuchirai is Velaphi An "Afrocentric Philomath" with many years' work experience spanning across the following sub-sectors: entrepreneurship, urban planning and renewable energy (organic waste-to-energy). Some experience is a culmination of formal education while the other entails on-the-job training and exposure, learning from good and bad experiences, from partners and clients, as well as observations and conversations. Anti-Silos and Pro-Collaboration, hence the multidisciplinary interests

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Some of the Previous Participants

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Conference Objective,

Every year the world produces over two billion tonnes of municipal solid waste, which is enough to fill 822,000 Olympic-size swimming pools.

The Conference will provide a forum for exchange of recent Research results among Researchers from various organizations focused on learning and sharing Knowledge upon use of recycling and for discussion of future challenges in implementation and application of latest Technologies and advances in this field.

For sponsors and exhibitors, this conference is an exciting opportunity to showcase the new Technology, the new products of your Company, and/or the service your Industry may offer to a broad International audience. It covers a lot of topics and it will be a nice platform to showcase their recent Researches on Solid Waste Management and other interesting topics.

Who should attend?

- Municipalities
- Environmental Academia/ Officers/ Managers
- Health & Safety Officers/Managers
- Landfill Supervisors/Managers
- Waste Logistics Supervisors/Managers
- NPO / NGO environmental groups
- Waste Awareness Organizations/ Associations
- Integrated Waste Management Managers
- Built Environment Faculties at Universities
- Recycling Associations/ Industries/ Researchers
- Manufacturing /Recycling Companies
- Environmentalist/ Journalists (print & electronic)
- Waste Contractors/Consultants/ Entrepreneurs
- Research Institutes/ Scientists
- All Government Departments
- Ecologists
- Green Energy Organizations/ Institutions
- Banks (Sustainability Managers)
- Chemical Engineers

Highlights

- Municipal Waste Minimization Initiatives
- e-Waste in South Africa
- Sustainable Construction Solutions
- Medical waste in Africa
- Alternative Landfill Technologies
- Bio-Plastics, E-Wastes and Solid Waste Management
- Post-closure Care, Care Management & Technologies
- Onsite Waste to Energy Solutions
- Identify Concepts of Reduce, Recycle and Reuse
- Food Waste Management and Bio-economy
- Mining Waste and Economic Opportunities present in Waste Management
- Agriculture Waste
- Innovation and Technology

Benefits of Attending

- The conference will empower delegates with the knowledge to explore the benefits, challenges & practicalities involved in recycling, incineration, organics diversion, composting & anaerobic digestion.
- It also aims to help you generate a holistic waste management plan for your country or organization
- Understanding and initiating new technologies to drive efficiencies with MWM and landfill processes
- Getting to grips with the hidden financial value in Recycling
- Aims to help improve your carbon footprint.
- Identify appropriate technologies to beneficiate your waste
- Facilitate the feasibility of reducing landfill volumes
- Understand the policies and laws to consider when working with waste.
- Keynotes sharing insights into the new Waste Management Plan for South Africa
- Case studies giving practical advice on working with service providers and communities to reduce waste

Dear Delegate

With increasing population, urbanization and expanding economic activities, Solid waste disposal and management is a challenge in Africa.

Waste is one of the biggest challenges faced by the world today, and the future of solid waste management depends on every single individual. Although government authorities, leaders of the nations, municipalities and local communities are working hard to manage the extensive amount of waste generated every day, a radical change in mindset at an individual level is the need of the hour.

On a broader note, improper waste disposal and management, which includes public littering, lack of waste segregation, uncontrolled collection and disposal and poor waste treatment practices, have greatly impacted the world. According to a World Bank report, 2.01 billion tons of municipal solid waste is generated every year across the world, out of which it is estimated that 33% is not managed properly, impacting the environment.

The growing waste problem causes health hazards, especially among the poor who reside near landfills. The mismanaged waste on the roadside may lead to the transmission of diseases and affect public health. Animals also get affected by consuming plastics and toxic waste. The waste accumulation over time pollutes water bodies and ultimately disturbs the natural balance of the environment.

Besides, improper waste disposal and management directly affect the economy of a country by minimizing income opportunities from tourist destinations and spots maligned by the waste problem. Also, greenhouse gases emitted from waste contribute to climate change as well.

Rapid population growth and urbanization in Africa has led to people generating enormous quantities of solid waste and consequent environmental degradation. The waste is normally disposed in open dumps creating nuisance and environmental degradation. Solid wastes cause a major risk to public health and the environment. Management of solid wastes is important in order to minimize the adverse effects posed by their indiscriminate disposal. Waste sources range from residential, industrial, commercial, institutional, construction & demolition, municipal waste, process (manufacturing) and agriculture and all these end up in landfills.

Plasma gasification, a process which converts organic matter into synthetic gas, electricity, and slag using plasma is one of the most efficient and widely used methods used in developed countries to process waste. Inside the gasifier, the hot gases from the plasma torch or arc contact the feedstock, such as municipal solid waste, auto shredder wastes, medical waste, biomass or hazardous waste, heating it to more than 1,649 degrees Celsius. This extreme heat maintains the gasification reactions, which break apart the chemical bonds of the feedstock and converts them to a synthesis gas (syngas). The syngas which consists primarily of carbon monoxide and hydrogen is then used for basic building blocks for chemicals, fertilizers, substitute natural gas, and liquid transportation fuels.

In South Africa over 90% of all general and hazardous waste is landfilled hence, the conference seeks to address and highlight alternatives that, when put in place and managed properly would see the reduction of waste going to landfills. It will address amongst others, plasma gasification, recycling, anaerobic digestion, composting, mechanical biological treatment, waste to energy, food recycling, glass recycling, medical waste, plastic recycling, construction waste and waste minimization initiatives case studies in Africa.

There is much to be done and to achieve our shared ambitions we will need to work together, to forge alliances between authorities, waste and recycling companies, manufacturers, small businesses and residents alike to save the planet for our children and grandchildren.

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DAY ONE

08:30 – 09:00 Morning Refreshments & Tea Break

09:00 – 10:00 - **Miss Tiwa Dune** - Project Manager, National Cleaner Production Centre.

Topic: Industrial symbiosis programme as an enabler to fast-track waste to resource and waste economy

10:00 – 10:15 **Tea Break**

10:15 – 11:15 - **Dr. Linus Naik** - Head of Sustainability and Business Development at Don't Waste Group

Topic: The Road to Net Zero Waste

11:15– 12:15 - **Dr Sibusiso Omega Nxumalo** - Climate Finance Specialist Advisor at International Development Group LLC (IDG)

Topic: Climate Financing and Solid Waste Management.

12:15 – 13:00 - **Sylvia Watson (Rossouw)** – CEO at RW Architects.

Topic: Finding the value in waste

13:00 – 14:00 **Lunch Break**

14:00 – 15:00 – **Himkaar Singh** – CEO at The Composit Kitchen

Topic: Starting a business from food waste.

15:00 – 15:10 **Afternoon Tea**

15:15 – 16:30 - **Eng Simon Bere** - Group Chief Strategy Officer at SBIC Group | Chief Research Scientist at SEMEDS Environmental and Economic Development Consultants in Zimbabwe

Topic: Transitioning from Refuse Collection and disposal to fully integrated solid waste management operations.

DAY TWO

09:00 – 10:00 - **Shérie 'Palesa' de Wet** - Founder and CEO of Palesa Pads

Topic:

10:00 – 10:15 **Tea Break**

10:15 – 11:15 - **Caroline Pepermans** - Owner at Pepermans Legal Consulting

Topic: National Environmental Management: Waste Act 39 of 2008

11:15 – 12:15 - **Joshua Palfreman** - Freelance Waste Management, Recycling & WASH Specialist

Topic: solid waste management and recycling models and innovative finance models to fund them

12;15 – 13:00 **Adriaan Van Wyk** - Head of Projects at Polyco

Topic: Pack-a-Ching!.

13:00 – 14:00 Lunch Break

14:00 – 15:00 **Marvelous Nengovhela** – Director/Specialist of Waste Management at SALGA South Africa

Topic: Sustainable Recycling Strategies for Cities and Towns

15:00 – 15:10 Afternoon Tea

15:10 – 16:00 **Dr. Gamuchirai Mutezo** – - Founder at Madam Waste Urban and Energy Planners

Topic:

16:00 – 16:30 Networking and Closing Remarks

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