



2019 NACA NATIONAL CONFERENCE PROGRAMME

3 - 4 OCTOBER 2019

Protea Hotel by Marriot | Stellenbosch | Technopark | Western Cape

THURSDAY, 3 OCTOBER 2019

09:00 - 17:00	<i>NACA Conference Registration</i>
10:00 - 13:00	Department of Environment, Forestry and Fisheries and the National Association for Clean Air (NACA) Multi-Stakeholder Air Quality Management Workshop.
13:00 - 14:00	<i>Lunch</i>
	Plenary Session Chair: Prof. Stuart Piketh (National Association for Clean Air)
14:15 – 14:30	Opening by the President of the National Association for Clean Air President Prof. Stuart Piketh
14:30 – 14:35	NACA Conference Platinum Sponsor GCRF Mine dust and Health Network
14:35 – 15:00	Feedback from DEFF Lekgotla Dr Thuli Khumalo, National Air Quality Officer, Department of Environment, Forestry and Fisheries
15:00 - 15:20	"GCRF Mine dust and Health Network: a collaborative, inter-disciplinary think-tank" Associate Professor Jennifer Broadhurst, Department of Chemical Engineering, University of Cape Town
15:20 – 15:30	Questions & Answers

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THURSDAY, 3 OCTOBER 2019 (Continued)

- 15:30 – 15:40 **Launch of the new Clean Air Journal platform**
Dr Gregor Feig, Prof Rebecca Garland and Dr Kristy Langerman, Co-editors,
Clean Air Journal
- 15:40 – 16:00 *Mid-afternoon Refreshments - Exhibition and Poster Viewing*
- Session 1: Policy*
Session Chair: Dr Patience Gwaze (Department of Environment, Forestry and
Fisheries)
- 16:00 – 16:20 **Are air quality offsets just?**
Kristy Langerman
- 16:20 – 16:40 **Air quality offsets in South Africa's dense low-income settlements:
evaluating options in law**
Crucial Bondamakara
- 16:40 – 17:00 **Truth and Perceptions in Public Understanding of Atmospheric Science and
Technology**
Harold Annegarn
- 17:15 – 17:45 **NACA Annual General Meeting**
Plenary Venue
- 18:00 - 18:45 *Invited speaker*
**The Legal basis for the Centre for Environmental Rights' Lawsuit Against
Department of Environment, Forestry and Fisheries**
Ms Olivia Rumble, Senior Lecturer, Institute of Marine and Environmental
Law, University of Cape Town
- 19:00 - Late *Informal Braai*
Protea Hotel by Marriot Stellenbosch, Clubhouse

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07:00 - 08:00

Tea & Coffee Refreshments

Session 2: Air Quality and Human Health Impacts

Session Chair: Mr Grant Ravenscroft (Argos Scientific Africa (Pty) Ltd.)

08:00 - 08:20

Morphology and elemental composition of coal particles emitted from domestic coal burning brazier

Daniel Masekameni

08:20 – 08:40

Mortality Reductions Associated with Meeting NAAQS and WHO Guidelines in the Highveld and Vaal Triangle Air Quality Priority Areas

Katye Altieri

08:40 - 09:00

The assessment of the external costs of dust fallout in Blyvooruitzicht Gold Mining Village

Mbalenhle Mpanza

09:00 - 09:20

An investigation of temporal and spatial correlations between citizen science odour reports and gas measurements from open-path UV-DOAS

Mark Wicking-Baird

09:20 - 09:40

A modelling approach to calculate the dust risk change for a platinum Tailing Storage Facility (TSF) when consolidated with another

Laurike de Beer

09:40 - 10:00

Simulating the Urban Heat Island over the City of Tshwane

Rebecca Garland

10:00- 10:20

Mid-morning Refreshments - Exhibition and Poster Viewing

Session 3: Emissions

Session Chair: Mr Benton Pillay (uMoya-NILU)

10:20 - 10:40

Development of a non-industrial emissions inventory for a coastal region

Seneca Naidoo

10:40 - 11:00

Characterisation of Atmospheric Particulate Matter from Opencast Coal Mining Activities and Adjacent Communities

Lerato Khumalo

11:00 - 11:20

Use of Unmanned Aerial Vehicles for Fugitive Emission Characterisation

Quentin Hurt

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FRIDAY, 4 OCTOBER 2019 (Continued)

- 11:20 – 11:40 **Characterisation of semi-volatile hydrocarbon emissions from diesel engines**
Amanda Mahlangu
- 11:40 – 12:00 **A comparison of the influence of different conditioning agents on South African fly ash resistivity**
Dawie Branken
- 12:00 - 12:20 **Estimated emissions of domestic waste burning in South Africa.**
Ngwako Kwatala
- 12:20 - 13:30 Lunch - Poster Viewing*
- Session 4: Air Quality*
Session Chair: Ms Colleen McCreadie (The Environmental Practice)
- 13:30- 13:50 **Invited speaker**
Eskom's Minimum Emission Standards Application Motivation and Objections
Deidre Herbst, Environmental Manager, Eskom
- 13:50 - 14:10 **Long-term WRFChem Modelling and Verification of Wet and Dry Deposition over the Highveld of South Africa**
Theo Fischer
- 14:10 - 14:30 **Characterizing source contribution of ambient particulate matter in Wedela, Gauteng**
Kealeboga Ntshabele
- 14:30 - 14:50 **Harbour and Intra-City Drivers of Air Pollution: Findings from a Land Use Regression Model, Durban, South Africa**
Hasheel Tularam
- 14:50 - 15:10 **Assessing the exposure to ambient air pollution at the intraurban scale: A case of Wedela and Zamdela**
Prince Chidhindi

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FRIDAY, 4 OCTOBER 2019 (Continued)

15:10 – 15:20 Mid-afternoon Refreshments - Exhibition and Poster Viewing

Session 5: Innovative Solutions to Air Quality
Session Chair: Ms Gabi Mkhathshwa (Eskom)

15:20 - 15:40 **An Online Tracking and Evaluation System for South Africa's National Climate Change Mitigation and Adaptation Actions**
Elanie van Staden

15:40 – 16:00 **Application of Passive Diffusive Particulate Monitors for Indoor Measurements**
Christiaan Pauw

16:00 – 16:20 **Dust Deposition Validation Study Using the ASTM D1739 – 98 (Reapproved 2017) Method with Three Different Container Dimensions and Windshield**
Kerusha Naidoo

16:20 – 16:40 **Evaluation of the Thermal Performance and Emissions in a Semi-Continuous Coal Stove**
Louise-M. Dreyer

16:40 - 17:00 **Awards for Best Papers**
Announcement of NACA 2020 & Closing

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