2017 NACA NATIONAL CONFERENCE
DRAFT PROGRAMME

4 - 6 OCTOBER 2017
CedarWoods of Sandton | Woodmead | Gauteng

WEDNESDAY, 4 OCTOBER 2017

09:30 - 13:00  Department of Environmental Affairs, launch of the upgraded South African Air Quality Information System (SAAQIS)

13:00 - 17:00  NACA Registration

14:00 - 15:45  NACA Conference Workshop
Social and Economic Aspects of Air Quality Offsets in cooperation with and sponsored by Eskom and Sasol

Sponsored by

15:45 - Late  Refreshments, networking and NACA Ice-Breaker Cocktail
Exhibition Area, CedarWoods of Sandton, Community Centre

THURSDAY, 5 OCTOBER 2017

07:30 - 08:30  Registration & Refreshments

Session Chair: Mr Benton Pillay

08:30 - 08:40  Opening by NACA President
Mr Benton Pillay

08:40 – 08:50  Welcome by a representative of the Gauteng Department of Agriculture and Rural Development (To be confirmed)

08:50 - 09:10  Feedback from DEA Lekgotla (To be confirmed)
Dr Thuli Khumalo, Chief Director: Air Quality Management
THURSDAY, 5 OCTOBER 2017 (Continued)

09:10 - 09:15  Introduction to the keynote speaker
Eskom representative (To be confirmed)

09:15 - 09:55  Eskom and Sasol Sponsored Keynote Speaker
“Sustainable Heating in Chile: Environmental Management Tools and
Actions to Improve Air Quality”, Mr Rodrigo Dittborn Cabello, Professional,
Department of Sustainable Heating, Air Quality Division, Ministry of
Environment (Chile)

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Session 1 – Monitoring

09:55 - 10:15  Black Carbon over the Northern Interior of South Africa – Spatial, Temporal
and Source Assessments
Paul Beukes

10:15 - 10:35  Aerosols Optical Properties and Direct Radiative Effect over Gobabeb,
Namibia using Ground Based Remote Sensing
Joseph Adesina

10:35 – 11:00  Mid-morning Refreshments - Exhibition and Poster Viewing

Session 2 – Calibration and Standards

Session Chair: Dr Gerrit Kornelius (University of Pretoria)

11:00 - 11:20  Improved Measurements of Sulphur Containing Compounds in Nitrogen
Reference Gas Mixtures
Nompumelelo Leshabane

Dioxide Case Study
Mudalo Jozela

11:40 - 12:00  Development of Benzene and Chloroform Primary Reference Gas Mixtures
Goitsemang Lekoto

12:00 - 12:20  Application of the Mass Measurement Technique in the Preparation of
Greenhouse Gas in Air Primary Reference Gas Mixtures
Silindile Lushozi

12:20 – 12:40  Characterisation of thermal efficiency of low income houses in
Kwazamokuhle settlement
Newton Matandirotya

12:40 - 13:30  Lunch
THURSDAY, 5 OCTOBER 2017 (Continued)

Session 3 – Dust and Related Topics

Session Chair: Prof Harold Annegarn (North-West University)

13:30 - 13:50  Correlating Dust Concentration Measurements aloft with Opencast Mining Surface Operations
Natasha Shackleton

13:50 - 14:10  Exposure to Wood Dust and Health Effects: A Review of Epidemiological Evidences from Developing Countries
Kevin Kasangana

14:10 - 14:30  Calibration of Directional Dust Fallout Gauges
Gerrit Kornelius

14:30 - 14:50  Understanding the Synoptic Systems that Lead to Strong Easterly Wind Conditions and High Particulate Matter Concentrations on the West Coast of Namibia
Hanlie Liebenberg-Enslin

14:50 – 15:20  Mid-afternoon Refreshments - Exhibition and Poster Viewing

Session 4 – Modelling and Emissions

Session Chair: Dr Hanlie Liebenberg-Enslin (Airshed Planning Professionals)

15:20 - 15:40  Modelling the Effects of Biogenic NO (X) on Atmospheric Deposition for the South African Highveld and Waterberg Regions
André Bruwer

15:40 - 16:00  The Application of Photochemical Modelling for the City of Johannesburg AQMP
Mogesh Naidoo

16:00 - 16:20  CAMx Model Study of the Impact of Natural Source Emission on Ozone over WBPA
Bheki Sibiya

16:20 - 16:40  Emissions of Tar Balls from Domestic Coal Burning Braziers
Daniel Masekameni

17:00 - 19:00  NACA Annual General Meeting
Plenary Venue

19:00 - Late  Informal Braai
Pool and Dining Area of CedarWoods of Sandton
FRIDAY, 6 OCTOBER 2017

08:00 - 08:30  
**Tea & Coffee Refreshments**  

Session 5 – Emissions

Session Chair: (To be confirmed)

08:30 - 08:50  
**Gas Firing of Brick Clamp Kilns to Reduce Emissions**  
Oladapo Akinshipe

08:50 - 09:10  
**Provincial Estimates of Lightning NOX over South Africa**  
Bathobile Maseko

09:10 - 09:30  
**Evaluating the Costs and Benefits of SO₂ Emissions Reduction on the Highveld of South Africa**  
Gerrit Kornelius

09:30 - 09:50  
**The use of heat exchanger technology to reduce emissions from coal fired power stations**  
Luther Els

09:50 - 10:10  
**The Potential Impacts of the Liquefied Petroleum Gas Heater Use on Indoor Air Quality**  
Maluta Mbedzi

10:10 - 10:30  
**Mid-morning Refreshments - Exhibition and Poster Viewing**

Session 6 – Deposition and Air Quality Management

Session Chair: Mr Daniel Masekameni (University of the Witwatersrand)

10:30 - 10:50  
**Atmospheric Deposition of Sulphur and Nitrogen over the Eastern Portion of South Africa**  
Mpho Mompati

10:50 - 11:10  
**Impact of Ozone on Four Major Crops in Mpumalanga, South Africa**  
Rebecca Garland

11:10 - 11:30  
**Climate Change Projections and Health, City of Johannesburg, South Africa**  
Joyce Shirinde

11:30 – 11:50  
**The Development of an African Atmospheric Science Network**  
Rebecca Garland

11:50 – 12:10  
**A National Greenhouse Gas Inventory Management System for South Africa**  
Martin van Nierop
FRIDAY, 6 OCTOBER 2017 (Continued)

12:10 - 12:30  Awards for Best Papers
               Announcement of NACA 2017
               CLOSING

12:30        Lunch