
NATASHA ANNE SHACKLETON (DIRECTOR)
CURRICULUM VITAE

CAREER SUMMARY

Natasha, a seasoned Professional Natural Scientist (Pr. Nat. Sci.) with over 14 years of experience in air quality studies, environmental noise monitoring, and climate change assessments founded ATMOSFERA CONSULTING (Pty) Ltd in 2025. She is registered with the South African Council for Natural Scientific Professions (SACNASP) and has a wealth of expertise in various areas, including data analysis, source inventories, modelling, impact assessments, and compliance with national and international regulations. Natasha's extensive portfolio encompasses projects across Africa, providing her with a deep understanding of International Finance Corporation (IFC) guidelines and standards. She excels in developing management plans and reports related to air quality, environmental noise, greenhouse gases, and climate change, and has undertaken various industries and institutions atmospheric and greenhouse emissions reporting as well as Atmospheric Emission License applications in South Africa.

AREA OF EXPERTISE

Air Quality
Acoustics
Climate Change

LANGUAGE

English – Fluent
Afrikaans – Limited Working Proficiency
French – Basic Understanding Specialist Studies Terminology

TECHNICAL EXPERIENCE

Natasha has been undertaking air quality studies and the development of air quality management plans since 2011 and her experience includes monitoring and sampling fieldwork, data analysis, emissions quantification, simulations using a range of dispersion models, impact assessments and health risk screening assessments. She has been conducting environmental noise monitoring and data analysis since 2011 and environmental noise impact assessments and management plans since 2015. She has experience in ambient and sources noise sampling; inventory compilation for a range of industries; simulations using SANS 10201, CONCAWE, and DataKustik CadnaA; impact assessments; and management plans. She has undertaken greenhouse gases emissions estimation for various projects as required prior to 2017. In 2017 she began undertaking climate change specialist studies. Whilst most of my working experience has been in South Africa, she has worked on many projects within various countries in Africa which required international financing, providing her with an inclusive knowledge base of IFC guidelines and IFC performance standards as well as other lenders requirements pertaining to air quality, environmental noise and greenhouse gases emissions.

The air quality, environmental noise and climate change studies she undertakes usually involves sampling network installation; dustfall sampling data analysis, pollutant concentration measurements or sampling data analysis, meteorological data processing and preparation, noise sampling and data analysis; the compilation of emission inventories; undertaking of air dispersion and noise propagation modelling; impact and compliance assessment using her substantial knowledge of South African and international legislation and requirements pertaining to air quality, greenhouse gases emissions and environmental noise; air quality, environmental noise, greenhouse gases and climate change management plan preparation and report writing.

She has also assisted with South African National Atmospheric Emissions Reporting (NAER) manual submissions and National Atmospheric Emission Inventory System (NAEIS) submittals and (South African) National Greenhouse Gas Emissions Reporting (NGER) manual submissions and South African Greenhouse Gas Emissions Reporting System (SAGERS) submittals as well as the preparation of Atmospheric Emission Licence applications on the South African Atmospheric Emission Licensing and Inventory Portal [SAAELIP] and hard-copy and compliance reporting on the SAAELIP for various mines and industries.

MEMBERSHIP OF PROFESSIONAL BODIES AND SOCIETIES

- Registered Professional Natural Scientist (Pr. Sci. Nat.), Registration Number 116335, with South African Council for Natural Scientific Professions (SACNASP), 2018 to present.
- International Association for Impact Assessment South Africa (IAIAAs), 2024 to present.
- National Association for Clean Air (NACA), 2020 to present.
- South African Society for Atmospheric Sciences (SASAS), 2016 to present.
- American Meteorological Society (AMS), 2017 and 2018.
- Golden Key International Honour Society, 2011 to present.

EMPLOYMENT

CURRENT EMPLOYER

Name of Organisation	ATMOSFERA CONSULTING (Pty) Ltd
Type of Organisation	Private Company
Position Held	Director - June 2025 to present
Main Job Functions	Undertaking air quality and environmental noise specialist studies for international funding applications, mining rights amendment applications, environmental authorisations, atmospheric emission licences, management plans, and in response to legal directives. Compilation of contractors and operators management and monitoring plans (air quality and environmental noise). Optimal engineering design studies. Atmospheric emission licence applications. Annual emissions reporting including greenhouse gases reporting. Emissions compliance reporting. Public and Authority engagement. Peer review. Legislation screening studies. External training. Business development, business management and project management.

PREVIOUS EMPLOYER

Name of Organisation	Eco Elementum (Pty) Ltd
Type of Organisation	Private Company
Position Held	Head of Department (Scientific Services) - March 2024 to May 2025
Main Job Functions	Undertaking air quality, environmental noise, and climate change specialist studies for mining rights amendment applications, environmental authorisations, environmental management programs. Compilation of management and monitoring plans and optimal design studies. Annual emissions reporting including greenhouse gases reporting. Internal training. Visual impact assessment reviews. Peer reviews. Business development and project management. Departmental and team management.
Name of Organisation	WSP Group Africa (Pty) Ltd
Type of Organisation	Private Company
Position Held	Principal Consultant - May 2022 to February 2024
Main Job Functions	Undertaking air quality and environmental noise specialist studies for international funding applications, environmental authorisations, atmospheric emission licences, management plans, and in response to legal directives. Compilation of contractors and operators management and monitoring plans (air quality and environmental noise). Atmospheric emission licence applications. Annual emissions reporting including greenhouse gases reporting. Emissions compliance reporting. Public and Authority engagement. Mentoring and team development. Internal study reviewing. Legislation screening studies. Business development and project management.

Name of Organisation	Airshed Planning Professionals (Pty) Ltd
Type of Organisation	Private Company
Positions Held	Senior Consultant - 2014 to April 2022 Junior Consultant April 2011 to 2014
Main Job Functions	Undertaking air quality, environmental noise and climate change specialist studies for international funding applications, environmental authorisations, atmospheric emission licences, management plans, engineering design studies, legal cases, internal and regulated incident studies and in response to legal directives. Air quality modelling for ecological, health and radiation hazard studies. Atmospheric emission licence applications. Annual emissions reporting including greenhouse gases reporting. Emissions compliance reporting. Compilation of regional management and monitoring plans (air quality). Public and Authority engagement. Monitoring and sampling network installations, management and data processing. Noise source measurements and sound power level derivation. Internal and peer review. Mentoring and team development. Business development and project management.

PROJECT EXPERIENCE

KEYNOTE PROJECTS

Ivanplats, Platreef Mine, Waterberg District, Limpopo Province, South Africa, 2024 - 2025

Air Quality and Environmental Noise Specialist

Air quality specialist study and environmental noise specialist study required as part of the mining rights amendment and environmental authorisation applications for an underground platinum group metal mine.

Ivanplats, Platreef Mine Air Quality Management Plan, Waterberg District, Limpopo Province, South Africa, 2024

Air Quality Specialist

Air quality management plan for the Platreef Mine's Phase 1 and Phase 2 operations, required to meet the legislative requirements.

Ivanplats, Platreef Mine, Waterberg District, Limpopo Province, South Africa, 2024

Environmental Noise Specialist

Acoustic design screening study for the Platreef Mine, required as part of an internal investigation to select the best possible equipment and mitigation measures to reduce environmental noise impacts.

National Petroleum Refiners of South Africa (NATREF), NATREF Hybrid Refinery Project, Sasolburg, Mpumalanga Province, South Africa, 2024

Air Quality Specialist

Air quality specialist study required as part of the environmental authorisation applications process for the NATREF hybrid refinery project.

TotalEnergies E&P South Africa BV, Block 11B/12B Gas Project, Offshore from the Southern Cape coast, South Africa, 2023

Project Manager and Air Quality Specialist

Air Quality Specialist Study required for the Production Right and Environmental Authorisation applications process for the offshore exploration and production activities within Block 11B/12B, located offshore from the Southern Cape coast.

Genmin Limited, Baniaka Iron Ore Project, Gabon, 2022 - 2023

Air Quality Specialist and Environmental Noise Specialist

IFC compliant Air Quality and Environmental Noise Specialist Studies required for the funding application process and local Environmental Authorisation application process for an iron ore mine and processing operations including a road and rail transport corridor.

National Ministry of Environment, UPL Cornubia Warehouse Fire, Durban, Kwa-Zulu Natal Province, South Africa, 2022

Assisting Air Quality Specialist

Atmospheric Dispersion Modelling for the Air Quality Specialist Study used as input for a fire incident at a chemical storage facility.

National Ministry of Environment, Shongweni Landfill, Durban, KwaZulu-Natal Province, South Africa, 2017

Assisting Air Quality Specialist

Atmospheric Dispersion Modelling for the Air Quality Specialist Study used as input for a Court Case for a waste handling, disposal, recovery and treatment of hazardous waste operations.

Environmental Impact Management Services (Pty) Ltd (Environmental Assessment Practitioner) on behalf of Eskom SOC Ltd (Applicant), Medupi Power Station and Matimba Power Station Postponement Applications, Lephalale, Limpopo Province, South Africa, 2019 - 2020

Project Manager and Air Quality Specialist

Undertaking the dispersion modelling and Public Participation representation as well as being involved in the air quality and meteorological data analysis, emissions estimation, model results analysis and report writing. Atmospheric Impact Reports with dispersion modelling were required as part of the Matimba Power Station and Medupi Power Station Minimum Emission Standards Compliance Postponement Applications.

Environmental Impact Management Services (Pty) Ltd, Acacia Peaking Power Station, Cape Town, Western Cape Province, South Africa, 2019 - 2020

Project Manager and Air Quality Specialist

Atmospheric Impact Report with dispersion modelling was required as part of the Acacia Peaking Power Station Minimum Emission Standards Compliance Postponement Application.

Environmental Impact Management Services (Pty) Ltd, Port Rex Peaking Power Station, East London, Eastern Cape Province, South Africa, 2019 - 2020

Project Manager and Air Quality Specialist

Atmospheric Impact Report with dispersion modelling was required as part of the Port Rex Peaking Power Station Minimum Emission Standards Compliance Postponement Application.

The Limpopo Economic Development Agency, Musina-Makhado Special Economic Zone (SEZ), Vhembe District, Limpopo Province, South Africa, 2019

Project Manager and Air Quality Specialist

Air Quality Specialist Study required as part of the Environmental Authorisation Application.

HATCH, Nyanza TiO₂ Pilot Plant, Richard Bay, KwaZulu-Natal Province, South Africa, 2019

Project Manager and Air Quality Specialist

Air Quality Specialist Study for the Environmental Authorisation application process for a titanium dioxide pilot plant.

EarthTies Environmental, Sublime Technologies Silicon Carbide Plant, Kriel, Mpumalanga Province, South Africa, 2018

Project Manager and Air Quality Specialist

Atmospheric Impact Report as part of the Atmospheric Emission Licence application process for silicon carbide production facility.

West African Resources Ltd., Sanbrado Project, Burkina Faso, 2018

Project Manager, Air Quality Specialist, Environmental Noise Specialist and Climate Change Specialist

Air quality specialist study, environmental noise specialist study, greenhouse gases emissions estimation and climate change impacts study for Environmental Authorisation and international funding process for opencast gold mining and processing operations.

SLR Consulting (Pty) Ltd, Tri-K Gold Project, Mandiana region, Guinea, 2016

Project Manager, Air Quality Specialist and Environmental Noise Specialist

Air quality specialist study and environmental noise specialist study for Environmental Authorisation and international funding process for opencast gold mining and processing operations.

EPOC Resources, Tete Iron Ore Project / Tete Steel and Vanadium Project, Mozambique, 2016

Air Quality Specialist, Assistant Environmental Noise Specialist and Climate Change Specialist

Air quality specialist study, environmental noise specialist study, greenhouse gases emissions estimation and climate change impacts study for Environmental Authorisation and international funding process for steel and vanadium processing operations, as well as conventional and cogeneration power generation facility.

EPOC Resources Ltd, Mkuju River Project, Ruvuma Region, Tanzania, 2011

Air Quality Specialist and Assistant Environmental Noise Specialist

Air quality specialist study and environmental noise specialist study for the Environmental Authorisation for opencast uranium mining and processing operations; including modelling for input into radiation study.

ALL PROJECTS AND FACILITIES

Projects and facilities for which work has been undertaken are listed below.

Mining Sector

Air Quality Studies

- Mines: Ivanplats Platreef Mine; Samancor Western Chrome Mines Mooinooi Mine; Graspan Extension Colliery; Townlands Colliery; Rietfontein Colliery; Izazi Mine; Saldomate Mine; Isibonelo Colliery; Argent Colliery; Baniaka Iron Ore Project (Gabon), Commissiekraal Coal Mine; Estima Coal Project (Mozambique); Grootegeluk Coal Mine; Matla Coal Mine; Rietvlei Coal Mine; Vierfontein Coal Mine; Goedehoop Coal Mine; Zibulo Colliery; AngloGold Ashanti Vaal River and West Wits Operations; Harmony Vaal River Operations as part of the Radionuclides Health and Environmental Risks Assessment; Atlantic Sands; Bakubung Platinum Mine; Bakubung Platinum Mine's new Tailings Storage Facility (TSF) Project; Bannerman Uranium Mine (Namibia); Gold Fields' South Deep Gold Mine; Kitumba Copper Project (Zambia); Lehating Manganese Mine; Lesego Platinum Mine; Lofdal Mining Project (Namibia); Marula Platinum Mine; Maseve Platinum Mine; Mbali Colliery; Mkuju River Uranium Project (Tanzania); Namakwa Sands Quartz Rejects Disposal and Mine; Otjikoto Gold Project (Namibia); Otjikoto Gold Mine's Wolfshag Project (Namibia); Pan Palladium Project; Perkoa Zinc Project (Burkina Faso); Storm Mountain Diamonds (Lesotho); Tete Iron Ore Project / Tete Steel and Vanadium Project (Mozambique); Thabazimbi Iron Ore's Infinity Project; Toliara Sands Project (Madagascar); Tormin Mineral Sands Mine; Trekkopje Uranium Mine (Namibia); Tri-K Project (Guinea); Tschudi Copper Mine (Namibia); Wayland Iron Ore Project; Zulti South Project; West African Resources Sanbrado Project

(Burkina Faso); Impala Platinum Rustenburg Mine and Smelter; Mn48 Manganese Mine; Kalgold, Allied Gold Corp Asosa Mine (Ethiopia).

- Quarries: AfriSam Saldanha Cement Project Limestone Quarry; Consol Industrial Minerals; Bundu Mining (air quality and environmental noise), Tete Iron Ore Project / Tete Steel and Vanadium Project (Mozambique); Bundu Mining.

Environmental Noise Studies

- Mines: Ivanplats Platreef Mine; Samancor Western Chrome Mines Mooiooi Mine; Graspan Extension Colliery; Saldomate Mine; Isibonelo Colliery; Bakubung Platinum Mine; Baniaka Iron Ore Project (Gabon), West African Resources Sanbrado Project (Burkina Faso); Boschmanskrans (Wolvekraans) Colliery; Kudumane Manganese Mine; Tawana Hotazel Mine including pit dewatering; Wessels Mine.
- Quarries: Bundu Mining.

Climate Change Studies

- Metalliferous mines: Tunnel Vision Resources Colliery; Bakubung Platinum Mine's new TSF Project; Tormin Mineral Sands Mine; West African Resources Sanbrado Project (Burkina Faso); Mn48 Manganese Mine; Tawana Hotazel Mine; Mn48 Manganese Mine.

Industrial Sector

Air Quality Studies

AfriSam Saldanha Project; Boegoebaai Green Hydrogen Facility; CAH Chlorine Caustic Soda and HCl Plant; Consol Industrial Minerals Processing Plant; Corobrik Driefontein new Brick Kiln Project; GfE-MIR Alloys and Minerals SA Pty Ltd; Impala Platinum Rustenburg Mine and Smelter including the proposed Second Flash Dryer Project; Metal Concentrators SA Paarden Eiland; Mine Waste Solutions (Chemwes) operations including the proposed Kareerand TSF expansion; Mortar SA Operations in Darling; NOVO Gas Hub; Nyanza TiO₂ Pilot Plant; Tronox Namakwa Sands Un-Attritioned Magnetic Material (UMM) Plant Environmental Authorisation (EA) application process as well as the Atmospheric Impact Report (AIR) as part of the Atmospheric Emission Licence (AEL) application process and the LNG Project; Otavi Rebar Manufacturing; Phakisa Project; Pan Palladium Project; PPC Riebeeck Cement; Rare Earth Elements (REE) Saldanha Separation Plant; Saldanha Steel; Sappi Saiccor Mill Furfural Commercial Plant; Sasol Synfuels Secunda; Sasol One Site (Sasolburg Operations); Siyanda Project; Sublime Technologies Silicon Carbide Plant; Tete Iron Ore Project / Tete Steel and Vanadium Project (Mozambique); Tri-K Project (Guinea); Tormin Mineral Sands Mineral Separation Plant (MSP); Tronox Namakwa Sands Smelter; Tronox Namakwa Sands MSP including LNG Project; UPL Cornubia Warehouse Fire; Vanchem Vanadium Products; ZMY Steel Recycling Plant; Musina-Makhado Special Economic Zone (SEZ); West African Resources Sanbrado Project Gold Processing (Burkina Faso).

Environmental Noise Studies

West African Resources Sanbrado Project Gold Processing (Burkina Faso).

Climate Change Studies

Boshhoek Smelter; Tormin Mineral Sands MSP; West African Resources Sanbrado Project Gold Processing (Burkina Faso); Mine Waste Solutions (Chemwes) operations including the proposed Kareerand TSF expansion.

Power Generation

Air Quality Studies

H2 Energy Power Station; Hwange Thermal Power Station Project (Zimbabwe); Ibhubesi Gas Project; Expansion of Staatsolie Power Company; Suriname Operations (Suriname); Tri-K Project (Guinea); Tete Iron Ore Project / Tete Steel and Vanadium Project (Mozambique); Medupi Power Station; Matimba Power Station; Acacia Peaking Power Station; Port Rex Peaking Power Station; Musina-Makhado SEZ.

Environmental Noise Studies

GlobalEq Namaacha Wind Energy Facility.

Waste Disposal and Treatment Sector

Air Quality Studies

DCLM KwaDukuza Landfill; Fishwater Flats Wastewater Treatment Works; Khutala Water Treatment Project; Moz Environmental Industrial Landfill (Mozambique); Koedoeskloof Waste Disposal Site; Interwaste FG Landfill Midrand; Interwaste Klinkerstene Landfill Site; Wolverand Crematorium; Green Oil and Lubricants Plant; Shongweni Landfill; Cape Flats Wastewater Treatment Facility.

Petroleum Sector

Air Quality Studies

Bidvest Tank Terminals (Port of Durban, Richards Bay, Isando); Chevron Refinery; Exol Oil Refinery; FFS Tank Terminals Durban Harbour; National Petroleum Refiners of South Africa (NATREF) Hybrid Refinery Project; Puma South Africa's Fuel Storage Facility; Oilkol Depot; Astron Energy Cape Town Refinery; Saldanha Bay Industrial Development Zone Fuel Storage Facilities; Green Oil and Lubricants Plant Cape Ocean Terminals Fuel Storage Facility.

Oil and Gas Exploration and Production

Air Quality Studies

TEEPSA Block 11B/12B (Offshore) Gas Project; Ibhubesi Gas Project.

Transport and Logistics Sector

Air Quality Studies

Saldanha Port Project; Transnet Multipurpose Terminal (Saldanha), Transnet Bulk Terminal Storage (Saldanha); Nairobi-Nakuru-Mau Summit Highway Project.

Environmental Noise Studies

Transnet Multipurpose Terminal (Saldanha); Nairobi-Nakuru-Mau Summit Highwa Projecty.

Ambient Air Quality and Noise Sampling/Monitoring

Gravimetric particulate matter (PM) sampling; dustfall sampling; passive diffusive gaseous pollutant sampling; active hydrogen sulphide sampling; grab sampling (Tedler bags); determination of odour concentration by Dynamic Olfactometry; continuous ambient air quality monitoring; environmental noise sampling.

National Atmospheric Emissions Reporting and National Greenhouse Gas Emissions Reporting

South African emissions reporting for mines and industries, as well as emissions estimation, mass balance calculations and compilation of supporting documents for these systems if mines and industries are compiling the submission online as well as manual submissions.

National Atmospheric Emissions Reporting

- Bidvest Tank Terminals Durban, Isando and Richards Bay Facilities (2023 and 2024).
- Lead and Solder Sales cc (2022 and 2023).
- GfE-MIR Alloys and Minerals SA Pty Ltd (2022).
- GfE-MIR Alloys and Minerals SA Pty Ltd (2021): detailed emissions inventory for NAEIS.
- Thungela Resources Limited Zibulo Colliery (2020, 2021, 2022, 2023).
- Thungela Resources Limited Greenside Colliery (2021 and 2022).
- Thungela Resources Limited Goedehoop Colliery (2021 and 2022).
- Impala Platinum Rustenburg Operations (2020, 2021, and 2022): partial emissions inventory for NAEIS.
- Sublime Technologies Silicon Carbide Production Facility (2021 and 2022): detailed emissions inventory including furnace mass balance for NAEIS.

National Greenhouse Gas Emissions Reporting

- University of Pretoria (2025).
- Bidvest Tank Terminals Durban and Isando Facilities (2023).
- Lead and Solder Sales cc (2022 and 2023).
- Sublime Technologies Silicon Carbide Production Facility (2021 and 2022): detailed emissions inventory including furnace mass balance for SAGERS.

SOFTWARE PROFICIENCY

SOFTWARE UTILISED IN CONDUCTING AIR AND NOISE STUDIES

- SCREEN3 using ScreenView (screening model).
- AERMOD suite (air dispersion model).
- AERSCREEN using AERSCREEN View (screening model).
- ADMS (air dispersion model).
- CALPUFF suite using command line and CALPUFF View (air dispersion model) as well as recompiling for expansive use.
- CALINE4, CAL3QHC, and CAL3QHCR (traffic air dispersion models).
- GRAL system (air dispersion model).
- WRPLOT View (wind and pollution rose generation).
- OpenAir (ambient and meteorological data processing).

- Golden Software Surfer (mapping).
- ArcGIS (Pro and ArcMap) (mapping).
- TANKS 4.0.9d (emission estimation model).
- GasSim (emission estimation model).
- DataKustic CadnaA (noise propagation model).
- SoundPLAN (noise propagation model).
- CONCAWE (noise propagation model).
- SANS 10201 (calculating and predicting road traffic noise).

SUPPORT AND RESEARCH SOFTWARE

- Courses passed in computer literacy: Word Processing, Spreadsheet Processing, Microsoft Power Point, Microsoft Publisher, Use of Internet and Microsoft Front Page.
- Practical courses passed in: MATLAB; ArcGIS 9.0.; ERDAS Image; Aan Arbor; IDRISI TAIGA; FORTRAN, GRADS; TITAN; SUMO 3.00; and Danny Rosenfeld 2007-01.
- Self-acquired software knowledge: Open Suse, Force 2.0, Planet GIS, EVE.
- Other self-acquired abilities: Troubleshooting with Microsoft Windows, maintenance, product application, recompiling FORTRAN programs.

EDUCATION

2010 – 2011

University Attended

University of Pretoria (Faculty of Natural and Agricultural Sciences)

Degree Obtained

Baccalaureus Scientiae Honours (Meteorology)

Completed 30 November 2011. Degree issued/conferred 13 April 2012.

Subjects Passed

Boundary layer meteorology, dynamical meteorology, cloud microphysics, cloud dynamics, mesoscale meteorology, meteorological remote sensing, research methodology.

Research Project

Retrieval of Relative Humidity and Cloud Thickness from CSIR-NLC Mobile LIDAR Backscatter Measurements - Research project supervisor: Dr S Venkataraman.

2007 – 2010

University Attended

University of Pretoria (Faculty of Natural and Agricultural Sciences)

Degree Obtained

Baccalaureus Scientiae

Completed 30 June 2010. Degree issued/conferred 2 September 2010.

Major Fields of Study Subjects Passed

Remote Sensing; Cartography; Cloud & Boundary Layer Dynamics; Atmospheric Balance Laws; Atmospheric Vorticity and Divergence; Quasi-Geostrophic Analysis; Community Project; Weather Forecasting; Physical Meteorology; Dynamic and Numerical Meteorology; Physical and Mesoscale Meteorology; Atmospheric Circulation and Climate; Atmospheric Processes; Weather Forecasting Principles.

Additional Subjects Passed

Geographic Data Analysis (GIS); Psychology; Science and World Views; Exploring the Universe (Basics of Astronomy); Historical Geology; Physical Geography; Physics; Calculus; Linear Algebra; Mathematical Modelling; and Computer Literacy.

Research Project

Physics Research Project on Backscattering of Particles, Department of Physics, University of Pretoria, October 2007.

CONFERENCES ATTENDED, ARTICLES PUBLISHED AND COURSES COMPLETED

TRAININGS PRESENTED

- Air quality impact assessment process and key legislation – Eco Elementum (Pty) Ltd personnel (2024).
- Background to air quality and mine impacts – Thungela Resources Limited, Seriti, Glencore personnel (2019).
- Meteorological data analysis and interpretation - Airshed Planning Professionals (Pty) Ltd personnel (2021).
- Meteorological parameters impacting dispersion – Airshed Planning Professionals personnel.

WORKSHOPS

- GCRF Mine Dust and Health Network Stakeholders Workshop: Mine Dust and Gold Tailings (March 2022).

CONFERENCES

- Conference: EAPASA (October 2024), attended.
- Conference: NACA (September 2024), attended.
- Conference: NACA (October 2021), attended.
- Conference: NACA (November 2020), attended.
- Conference: Innovation Bridge and Science Forum South Africa (December 2019), attended.
- Conference: NACA (October 2018), attended and presented a paper (Correlating Dust Concentration Measurements aloft with Opencast Mining Surface Operations).
- Conference: NACA (October 2017), attended and presented a paper (Correlating Dust Concentration Measurements aloft with Opencast Mining Surface Operations).

ARTICLES

- Published Article: Beukes, JP; Van Zyl, PG; Sofiev, M; Soares, J; Liebenberg-Enslin, H; Shackleton, N; Sundstrom, AM (2018). The use of satellite observations of fire radiative power to estimate the availabilities (activity patterns) of pyrometallurgical smelters. Journal of the Southern African Institute of Mining and Metallurgy, 118(6), 619-624., co-author.

COUNTRIES OF WORK EXPERIENCE

South Africa, Botswana, Burkina Faso, Ethiopia, Gabon, Guinea, Lesotho, Mozambique, Madagascar, Namibia, Suriname, Tanzania, Zambia and Zimbabwe.

Natasha Shackleton

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Pr. Sci. Nat. Physical Scientist (SACNASP) | BSc (Hons) Meteorology