

“West Coast Diamonds: Event and Excursion” – 17th & 18th May 2024

Programme and Information

Date: 17th May 2024 (Day 1): Country Club Lodge, Port Nolloth, NC.

- Continuous Professional Development Points (5).
- Dinner included in registration cost.
- Five speakers (Talk Summary and Speaker Biography within flyer).

Time Slot	Speaker	Title of Talk
17:00 – 17:10	Loni Gallant (NC Branch Chairperson)	NC Branch Introduction, welcome and acknowledgements.
17:10 – 17:35	Lyndon De Meillon	The state of the alluvial diamond mining sector in South Africa.
17:35 – 18:00	Mike De Wit	Update on temporal and spatial macro-scale dispersion of West Coast diamonds derived from primary sources on the Kaapvaal Craton.
18:00 – 18:15	Break	
18:15 – 18:35	Collin Mbangi & Deoné Strauss	The Evolution of the Southern Coastal Mines Diamond Sampling at Namdeb Diamond Corporation.
18:35 – 19:00	Gregory Katz	Cutting and Polishing Exceptional Diamonds from the Alluvial Deposits of South Africa.
19:00 – 20:00	Dinner	
20:00 to Late	Drinks	

Date: 18th May 2024 (Day 2): Field Trip, Kleinsee, NC.

- Continuous Professional Development Points (4).
- Breakfast will be for attendee's own account.
- Field trip to Kleinsee.

Time Slot	Field Guide	Description
08:30 – 14:00	Kabelo Mongalo (Alexkor) Deon Bowers (Alexkor)	Guided field trip looking at the Kleinsee alluvial diamond deposits; catch a glimpse of the history of mining on the West-coast and the future– details within flyer. Please bring own PPE – Hard hat, steeltoe cap safety boots and reflector vests.

Venues: **Friday, 17th May** – Country Club Lodge, Port Nolloth / **Saturday, 18th May** – Kleinsee, NC.

Registration costs: Attendees: R1200 - Day 1 (Event) R650 - Day 2 (Field Trip)
 Students: R600 - Day 1 (Event) R350 - Day 2 (Field Trip)

Registration Link:

<https://www.cognitofirms.com/GeologicalSocietyOfSouthAfrica/WestCoastDiamondsEventAndExcursion1718May2024>

Accommodation:

At Cost of attendees – research **Port Nolloth** – <https://www.travelground.com/accommodation-in/port-nolloth/1>
 or **Kleinsee** – Phone Jackie Houthoop - 078 598 7227

For additional registration/branch information, free NC Branch membership applications link:

https://docs.google.com/forms/d/e/1FAIpQLSeQAxcK4_0CQtazGgtOGBTfn2SaCiBpms5fP_ej3ZdOUMOmvQ/viewform

or any other general enquiries use the following email:

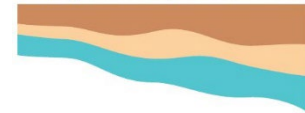
admin.nc@gssa.org.za

Event Supporters		ANNUAL SPONSORS				DIGITAL Surveying	

Executive Committee: **Chairperson:** Loni Gallant (Lisani Geological Services); **Vice Chairperson:** Palesa Boikanyo (South 32);

Secretary: Tricia Scott (Anglo American), **Treasurer:** Francois Stassen (Imdex Limited) and **Communications:** Thabang Phakoe (DMT Kaibatla).

Committee members: Elmar Human (Minrom), Conrad De Kock (Raubex); Eveline Kekana (Assmang); Kabelo Mongalo (Alexkor); Leonita Kuhn (South 32); Lutendo Mavhungu (RES), Lorena Tafur (Anglo American), Nkosinathi Mthethwa (Glosam Manganese Mine) and Vince Schaper (Maxgeo).



West Coast Diamonds: Kleinsee Excursion Details – 18th May 2024

Time Slot	Area & Geology
08:30 – 14:00	Guided field trip looking at the Kleinsee alluvial diamond deposits; catch a glimpse of the history of mining on the West-coast and the future. (Further details to be provided.)

Guides:

Deon Bowers - General Mine Manager (Alexkor),] and Kabelo Mongalo - Senior Geologist (Alexkor)

Transportation:

Own Transportation: SUV/Bakkies recommended - limited transportation on site will be provided.
 Gravel road at places between Port Nolloth and Kleinsee (further details to be provided).

PPE:

Steeltoe cap safety shoes, hard hat and reflective vest.

ACCESS:

Identity number/documentation will be requested from each delegate for access into the mines.
 Timing to be strictly adhered to for the mine site visit for induction.

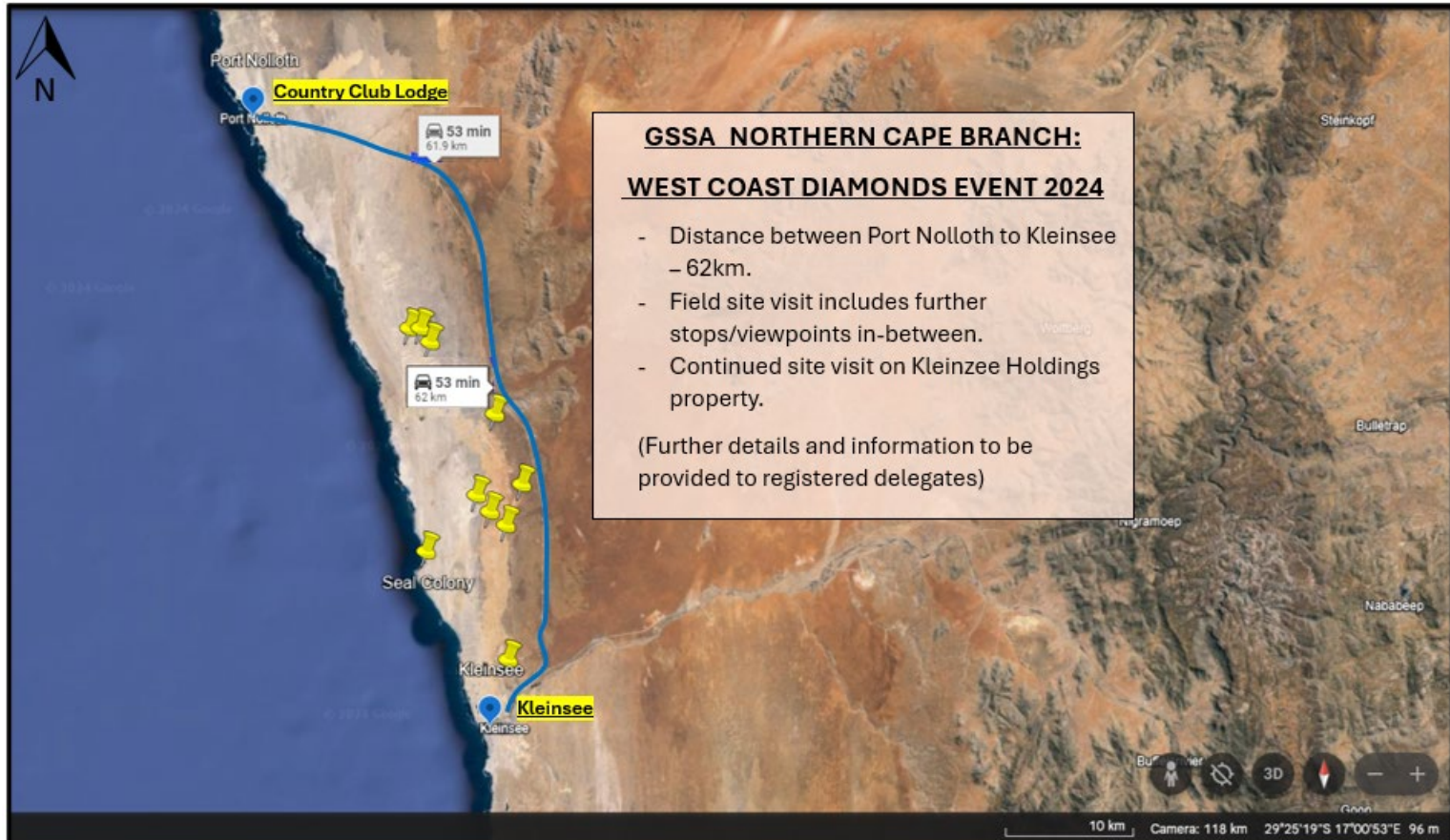
Registration Link:

<https://www.cognitofrms.com/GeologicalSocietyOfSouthAfrica/WestCoastDiamondsEventAndExcursion1718May2024>

Accommodation:

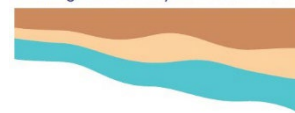
At Cost of attendees – research **Port Nolloth** – <https://www.travelground.com/accommodation-in/port-nolloth/1>
 or **Kleinsee** – Phone Jackie Houthoop - 078 598 7227

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 or any other general enquiries use the following email:
admin.nc@gssa.org.za



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SPEAKERS: SUMMARY OF TALKS

Lyndon De Meillon

Director

**Paleostone Mineral
Consultants and Mining**



Gregory Katz

Director/Shareholder/Managing Partner

Trigon Adamas Pty Ltd



Mike De Wit

*Consultant & Research Fellow of
University of Stellenbosch*



Collin Mbangi

Senior Exploration Geologist

Namdeb Diamond Corporation



Deoné Strauss

Senior Exploration Geologist

Namdeb Diamond Corporation



LYNDON DE MEILLON

“THE STATE OF THE ALLUVIAL DIAMOND MINING SECTOR IN SOUTH AFRICA.”

The decline in the number of small and junior companies involved in the alluvial mining sector over the past 20 years has been well documented. Due to the lack of accurate data, the main reasons for this decline have not always been well understood. The impact of various factors including geology, regulatory compliance, diamond populations and diamond price fluctuations on the profitability of these operations are examined using data collected by the author over the past 20 years.

MIKE DE WIT

“UPDATE ON TEMPORAL AND SPATIAL MACRO-SCALE DISPERSION OF WEST COAST DIAMONDS DERIVED FROM PRIMARY SOURCES ON THE KAAPVAAL CRATON”

A revised estimate of the quantity of diamonds eroded from the inland kimberlites and lamproites (var. Kaapvaal) is presented. This is linked to a post-Gondwana geological time-frame and put into a macro palaeo-geographical perspective.

Although the largest share of the West Coast diamonds has been derived from the Cretaceous craton-based alkaline intrusions, there is enough incidental evidence to suggest that Meso-proterozoic and Cambrian kimberlites have contributed to the West Coast pool via Palaeozoic sedimentary distribution systems.

GREGORY KATZ

“CUTTING AND POLISHING EXCEPTIONAL DIAMONDS FROM THE ALLUVIAL DEPOSITS OF SOUTH AFRICA”

- THE GIA COLOUR GRADING SYSTEM
- CUTTING TECHNIQUES FOR FANCY COLOUR DIAMONDS
- MANUFACTURING THREE EXCEPTIONAL DIAMONDS



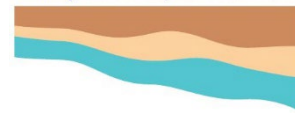
COLLIN MBANGU & DEONÉ STRAUSS

“THE EVOLUTION OF THE SOUTHERN COASTAL MINES DIAMOND SAMPLING AT NAMDEB DIAMOND CORPORATION”

Diamond mining along the onshore and nearshore zones of south-western Namibia has been active for the past 100 years. This mega-placer deposit is the result of a weathering and conveyor system that liberated diamonds from the Kimberlite pipes in the interior of southern Africa and transported along the Orange River drainage system to the Atlantic Ocean. Enhanced understanding of the local, regional controls affecting the offshore extent and morphology of the submerged marine placer has been achieved through the integration of geophysical datasets and historical mining data generated over the 100 years of onshore mining history. With the traditionally onshore linear beaches mined out in Namdeb's Mining Area 1 (Southern Coastal Mine), current mining focuses on the shallow water extensions of the mined-out deposits which concurrent to being mined are explored and targeted using small diameter drill, large diameter drill and bulk paddock trenching (linear assay) to inform current, future mining operations and resource development.

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SPEAKERS: BIOGRAPHY

Lyndon De Meillon

Lyndon de Meillon is a geologist that graduated with a Masters Degree in Geology/Oceanography from the University of Port Elizabeth in 1993. He spent the first 5 years of his career with De Beers as a field geologist, searching for kimberlites, as well as a period as manager of their sample processing facility in Kimberley. In 1998, he was one of the founder members of Gem Diamonds, the first listed company to mine alluvial diamonds along the Middle Orange River. In 2000, he started Paleostone Mineral Consultants, doing geological consulting work for the diamond industry. In 2007, he joined Manhattan Operations as the Chief Operational Officer. In 2015 he started his own alluvial diamond mining company that is currently mining alluvial diamonds along the Orange River between Douglas and Prieska. Lyndon is the Deputy Chairman of the South African Diamond Producers Organisation.

Mike De Wit

Born in the Netherlands in 1952. Mike obtained his geology degree from Trinity College, Dublin in 1975, and MSc degrees from the Universities of Pretoria (Geophysics - 1981) and Reading (Sedimentology - 1983). He completed a PhD from the University of Cape Town in 1993. He started his career with the Geological Survey in 1976 where he spent two years in applied geophysics. The following 29 years he worked for De Beers in diamond exploration in various parts of Africa including three years at their research laboratories, and ended up as exploration manager for Africa.

From 2007 until 2018 he worked for several junior exploration companies in the DRC, Botswana and South Africa, and is now semi-retired but pursuing his personal interest in writing an atlas of all alluvial on-shore diamond deposits in South Africa and southern Namibia. In 2007 he was appointed as Honorary Professor in geology at the University of Pretoria and in 2019 he became a Research Fellow at the University of Stellenbosch. He published several papers and two books.

Gregory Katz

Greg is a third-generation diamond dealer and graduate gemologist with over 35 years of experience in the diamond industry. Over the past ~20 years, Greg has concentrated on purchasing and manufacturing exceptional diamonds. He is the holder of a Diamond Dealers License in South Africa and previously in Lesotho. He travels to Botswana to participate in diamond tenders in Gaborone. Greg studied gemology at the GIA in California before returning home to join the family business. Since working as a schoolboy in the family-owned diamond and jewelry business,

Greg has continued to build on his experience and technical expertise in diamonds. He has formed valuable and strategic alliances and relationships with several renowned diamond companies. He has vast knowledge and experience with purchasing, planning, and cutting and analysis of fancy color diamonds. He supervises and directs diamond polishers at the company factory in Johannesburg. As a hobby, Greg does macro photography and videography to capture and track rough diamonds through the manufacturing process to the final polished stones. The company employs several South African diamond polishers, a gemologist and an expert diamond planner.

His presentation will focus on cutting and polishing exceptional diamonds from the alluvial deposits of South Africa. He will also provide an overview of the GIA colour grading system and techniques for planning and manufacturing fancy colour diamonds.

Collin Mbang

Collin P Mbang is a Senior Geologist with Namdeb's exploration team currently leading the drilling projects in Southern Coastal Mines, Collin started his early career at Namdeb on Orange River mines exploration, non-diamonds projects technical team and on-mine support before progressing to SCM where he fulfills the current role. Passionate and with a strong background in 3D modelling. Collin is a member of the of the African Geological Society and holds a Bachelor of Science (Honors) from the University of Namibia.

Deoné Strauss

Deone Strauss is a Senior Geologist at Namdeb Diamond Corporation. She holds a Bachelor of Science with Honors in Earth Science, with a major in structural geology and Geographic Information Systems (GIS) from the University of Stellenbosch, South Africa. With a solid educational foundation, Deone embarked on her professional journey in April 2019 as a staff geologist overseeing RC drill rigs on the Orange River Mines extending up to the Chameis Area of the Sperrgebiet. Deone's expertise spans both diamond and non-diamond exploration, including rare earths. At Namdeb, she plays a pivotal role in managing linear assay sampling in the Southern Coastal Mines, ensuring accuracy and efficiency in sampling, data collection and analysis. Additionally, she actively contributes to the exploration endeavors at Namdeb's non-diamond project, Karingarab, facilitating strategic initiatives and driving progress in mineral exploration. Outside of his professional pursuits, Deone is passionate about sharing her knowledge and experiences with fellow geologists and aspiring professionals. She engages with the geological community through platforms like LinkedIn, where she welcomes networking opportunities and collaborations.

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