

One Eighty Materials Engineering Solutions Inaugural Root Cause Analysis Africa Conference 2025 EXHIBITOR OPTIONS



11-14 March 2025 at The Vineyard Hotel | Cape Town, South Africa





Introduction

Why a Root Cause Analysis Conference?

The significance of materials engineering

Materials Engineering stands at the forefront of professional engineering disciplines worldwide, experiencing unparalleled growth over the last century. Engineers now have a vast array of options to craft items for diverse applications, extending beyond traditional materials like steel to a broad spectrum of innovative materials. Polymers have revolutionised applications, displacing metal alloys in numerous scenarios. The shift from traditional materials to innovations like glass fibre reinforced plastic (GRP) reflects the industry's adaptability. Once limited to surfers, GRP now finds application in advanced fibres such as Kevlar, reshaping industries from boat building to aerospace.

Beyond material selection

Materials Engineering expertise encompasses more than just material selection; it includes corrosion protection coatings and wear-resistant applications. From hot dip galvanising to sophisticated metal matrix composites, the field offers a breadth of possibilities.

Despite the critical importance of optimising material properties through proper processing, attention to materials often surfaces only when failures occur. Decisions driven by cost rather than Materials Engineering expertise can lead to costly repercussions. Inadequate understanding during manufacturing processes, such as improper heat treatment due to financial constraints, can result in significant issues like product recalls.

Bridging the knowledge gap

The Inaugural Root Cause Failure Analysis Africa Conference aims to highlight Professional Materials Engineering as a pivotal discipline for thriving economies. While Materials Engineering expertise and accredited testing facilities are well-established in Europe, the USA, and the Middle East, such resources remain scarce in Africa. Emerging sectors, such as oil and gas, require world-class expertise, making this conference a crucial platform to foster awareness and bridge the knowledge gap in our continent's developing economies. One Eighty, with 22 years of delivering reliable and effective expertise in Africa, is honoured to host and sponsor this conference, championing the need for Materials Engineering proficiency across industries in our region.

Visit the complete conference section on our web here

About One Eighty



Founded in 2002 by renowned metallurgist and materials engineer Dr. Janet Cotton, One Eighty Materials Engineering has grown into Africa's leading ISO 17025:2017 accredited materials and metallurgical testing laboratory. With over 22 years of experience and a portfolio of more than 1400 global clients, we are at the forefront of innovation in materials engineering and metallurgy.

Our Expertise and Services

One Eighty offers comprehensive metallurgical testing, consulting, and advanced materials services. Our skilled engineers and metallurgists specialize in solving complex engineering problems and conducting exceptional root cause failure investigations. We pride ourselves on delivering reliable, efficient, and cost-effective solutions tailored to our clients' needs.

Accreditations and Memberships

As a Bureau Veritas Marine and Offshore approved laboratory, One Eighty meets the highest standards of quality and safety. We are the only materials testing lab in Africa that is a member of the Southern African Stainless Steel Development Association (SASSDA) and the International Laboratory Accreditation Cooperation (ILAC), ensuring our global recognition and adherence to stringent standards.

Innovative Solutions

Our state-of-the-art testing facilities and advanced methodologies enable us to accurately assess the physical, chemical, and mechanical properties of materials. We are committed to promoting sustainability through innovative solutions like recycled aggregates, bio-based composites, and energy-efficient insulation.

**We bring high level technology to real life problems
22 years of integrity, reliability and effectiveness**





The Venue

The Vineyard Hotel, Cape Town

We are thrilled to announce that the One Eighty Materials Engineering Root Cause Analysis Conference will be held at the prestigious Vineyard Hotel in Cape Town, South Africa. Nestled in the lush greenery of Newlands, this historic hotel offers a unique blend of charm, luxury, and modern amenities, making it the perfect venue for our conference.

The Vineyard Hotel is renowned for its exquisite gardens, stunning views of Table Mountain, and a serene ambiance that fosters both relaxation and productive collaboration. Attendees will enjoy world-class facilities, including state-of-the-art conference rooms, exceptional dining experiences, and comfortable, elegant accommodations.

Join us at the Vineyard Hotel for an unforgettable conference experience where innovation and expertise meet in an inspiring and picturesque setting.

[Go to the hotel website here](#)

Conference Attendees

A conference on Root Cause Failure Analysis (RCFA) is valuable to a diverse range of professionals involved in ensuring the reliability, safety, and performance of systems and products. We expect 100 conference attendees.

Key groups we expect to attend include:

- Engineers and technical specialists
- Mechanical engineers
- Materials engineers
- Structural engineers
- Maintenance and reliability professionals
- Maintenance engineers
- Reliability engineers
- Quality assurance and control specialists
- QA/QC engineers
- Inspection and testing professionals
- Safety and risk management experts
- Safety engineers
- Risk managers
- Manufacturing and fabrication professionals
- Manufacturing engineers
- Fabricators
- Academic and research professionals
- Researchers
- Academics
- Operations and project managers
- Operations managers
- Project managers
- Consultants and industry experts
- Consultants
- Industry experts
- Legal and insurance professionals
- Legal advisors
- Insurance specialists
- Procurement and supply chain managers
- Procurement managers
- Supply chain managers
- Students and early-career professionals
- Students
- Early-career professionals

Attendees from these diverse groups can benefit from the conference by gaining valuable insights into failure analysis techniques, learning from case studies, networking with experts, and staying updated on industry trends and best practices.

[Visit the complete conference section on our web here](#)

Exhibition Opportunities

The inaugural Root Cause Failure Analysis Africa Conference will feature a dedicated exhibition hall open throughout the four days of the conference. Exhibitors will have the opportunity to interact with approximately 100 attendees from the engineering sector in South Africa, across Africa, and internationally.

Importantly, the exhibition will be open to the public at no cost and promoted on all our platforms

Exhibition spaces are available in two options: 2x2 metre tables and 2x4 metre stands, allowing relevant suppliers to showcase their products and services. This is a unique opportunity to engage with key professionals, build valuable connections, and enhance your brand's visibility in the industry

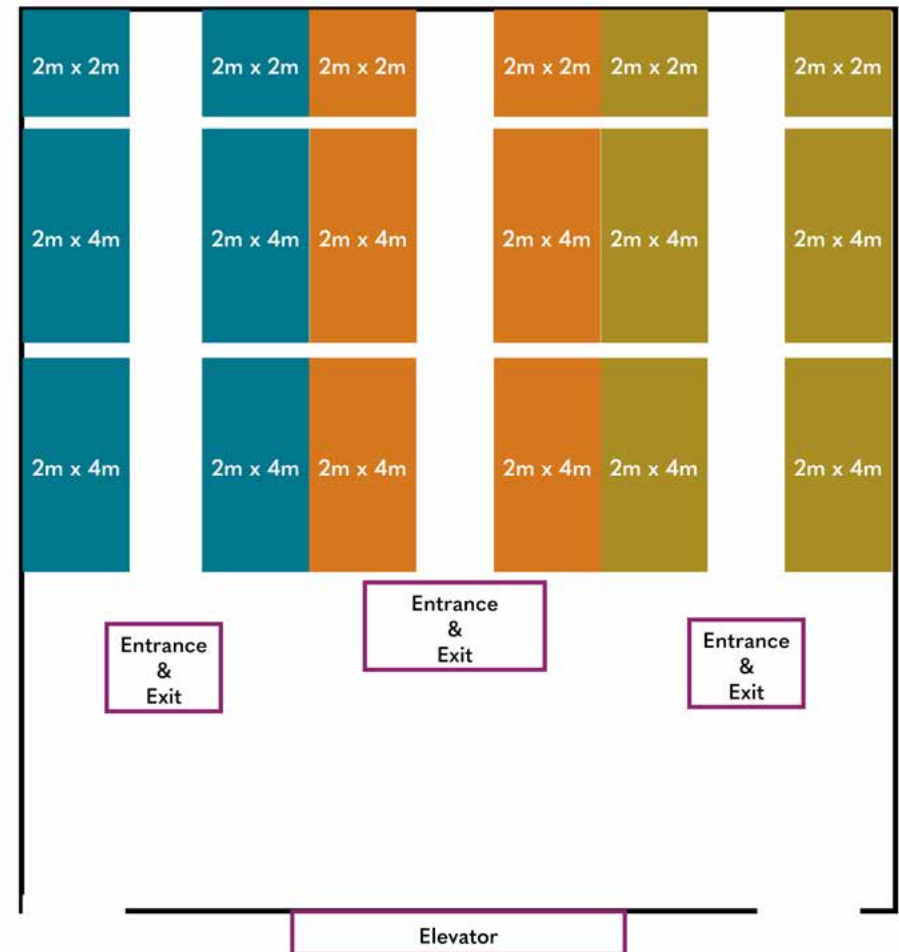
Costs:

2m x 2m Table in the Exhibition Hall: R 7500 Ex VAT for 4 days

2m x m Table in the Exhibition Hall: R 9500 Ex VAT for 4 days

Book your spot or enquire:

Email: cazwyn@one-eighty-degrees.com | Tel: +27 21 447 5258



Visit the complete conference section on our web here



Why Exhibit or Sponsor?

Targeted audience engagement

- Reach decision-makers: Engage with engineers, maintenance professionals, and asset care managers directly involved in material selection and risk management.
- Showcase solutions: Highlight how your products or services address the specific challenges faced by attendees.

Brand visibility

- Increase exposure: Position your brand at the forefront of the Materials Engineering and RCFA sectors.
- Stand out: Differentiate your company by showcasing unique offerings and expertise.

Networking opportunities

- Connect with industry leaders: Engage with professionals across engineering, manufacturing, and legal sectors, building valuable connections.
- Build relationships: Forge and strengthen relationships with clients in a professional setting.

Live demonstrations

- Showcase innovations: Conduct live demos to let attendees experience your products firsthand.
- Launch new products: Introduce new products to an engaged audience.

Educational opportunities

- Industry expertise: Participate in sessions or panels to share insights, positioning your company as an industry leader.
- Gather insights: Engage with attendees to gain valuable feedback and market insights.

Support industry growth

- Contribute to development: Support the advancement of Materials Engineering and RCFA in Africa, showcasing your commitment to industry growth.
- Corporate social responsibility: Demonstrate your dedication to African industrial growth by supporting professional development.

Tailored sponsorship

- Enhanced exposure: Combine exhibition with sponsorship to increase visibility and align your brand with key conference moments.
- Customised packages: Work with organizers to create a package that maximises your return on investment.

Exhibiting at the Inaugural RCFA Africa Conference is not just an opportunity to showcase your products but a strategic investment in your company's future, offering unparalleled access to a niche audience, the chance to build meaningful connections, and the platform to position your brand as a leader in the industry.

Visit the complete conference section on our web here

Sponsorship opportunities



With the sort of attendees that this conference could attract, there are sponsorship opportunities for companies that wish to have increased visibility, strategic market positioning, and the opportunity to contribute to the development of the industry while building valuable connections and enhancing their brand's reputation.

The Conference expects to see 100 attendees from South Africa, Africa and internationally

**Chat directly to Dr Janet Cotton,
Founder and Director of One Eighty,
about a sponsorship opportunity that suits your company:**

Email: janet@one-eighty-degrees.com | Tel: +27 21 447 5258

Visit the complete conference section on our web [here](#)



Programme

Tuesday 11 March 2025 Laser Welding and Laser Cleaning Workshop

Laser Welding Workshop

Join One Eighty Materials Engineering Solutions for an informative Laser Welding Workshop on Tuesday, 11 March 2025, at The Vineyard Hotel in Cape Town. This workshop will cover the latest advancements in laser welding technology and techniques, providing hands-on experience with equipment and processes. Attendees will learn about the precision and control laser welding offers, leading to improved weld quality, reduced defects, and compatibility with various materials. The workshop will also highlight how laser welding enhances productivity and efficiency by increasing processing speed, reducing cycle times, and integrating automation.

Laser Cleaning Workshop

Laser cleaning, a non-contact process, uses laser irradiation to remove contaminants, coatings, or residues from material surfaces. This workshop will explain how laser cleaning works and its key features, such as precision, non-abrasiveness, and environmental friendliness. Attendees will explore applications in industrial cleaning, cultural heritage conservation, and surface preparation. The benefits of laser cleaning over traditional methods include reduced waste, lower operational costs, and increased safety for workers.

By attending these workshops, professionals can gain advanced skills, improve process efficiency, and stay informed about the latest technology and industry trends.

The Workshop will be followed by the Grand Opening of the new One Eighty laboratories in Mowbray, Cape Town at 17h00 for all WorkShop and Conference attendees

[Read more and register for the workshop here](#)

Programme



Wednesday 12 March 2025 ZEISS Microscopy Workshop

8:30 for 8:45	Introduction Dr Janet Cotton
9:00-10:00	WORKSHOP: Introduction and modern microscopy trends
10:00-10:30	TEA BREAK
10:30-12:30	Materials Applications in ZEN Core Imaging Software including – Grains, Cast Iron, Multiphase, Layer Thickness, Comparative Diagrams
12:30-14:00	Lunch and Exhibit
14:00-15:00	Image Analysis with Artificial Intelligence and object classification
15:00-15:30	TEA BREAK
15:30 - 16:30	Live demonstrations and sample demos
16:30 onwards	Networking Event – Drinks, Canapes and Welcome

[REGISTER HERE](#)



Programme

Thursday 13 March 2025 Conference

8:30 for 8:45	Welcome Address – Dr Janet Cotton	
9:15-10:00	Key Note Speaker – The Role of Materials Engineering in Various Economies in Africa Dr Robert Ochoa	
10:00-10:30	TEA BREAK	
	Metal Alloy Root Cause Failure Analysis	Advanced Materials Root Cause Failure Analysis
10:30-11:00	Speaker	Speaker
11:00-11:30	Speaker	Speaker
11:30-12:00	Speaker	Speaker
12:00-12:30	Speaker	Speaker
12:30-14:00	Lunch and Exhibit	
14:00-14:30	Speaker	Speaker
14:30-15:00	Speaker	Speaker
15:00-15:30	TEA BREAK	
15:30-16:00	Speaker	Speaker
16:00-16:30	Speaker	Speaker
16:30-17:00	Speaker	Speaker

[REGISTER HERE](#)

Programme

Friday 14 March 2025 Conference

8:30 for 8:45	Introduction of Africa Association of Materials Engineers – Dr Janet Cotton	
9:15-10:00	Key Note Speaker – The Role of Materials Engineering Evidence in Commercial Litigation and Loss Adjusting - Mr Eben Snyman	
10:00-10:30	TEA BREAK	
	Metal Alloy Root Cause Failure Analysis	Advanced Materials Root Cause Failure Analysis
10:30-11:00	Speaker	Speaker
11:00-11:30	Speaker	Speaker
11:30-12:00	Speaker	Speaker
12:00-12:30	Speaker	Speaker
12:30-14:00	Lunch and Exhibit	
14:00-14:30	Speaker	Speaker
14:30-15:00	Speaker	Speaker
15:00-15:30	TEA BREAK	
15:30-16:00	Speaker	Speaker
16:00-16:30	Speaker	Speaker
16:30-17:00	Student Poster Presentations and Drinks	
19:00	Gala Dinner with jazz band	

[REGISTER HERE](#)

CONFERENCE COST:

Attendee:

R17 500 excl VAT

- includes Zeiss Microscopy Workshop and Gala Dinner with jazz band

Additional attendee for Gala Dinner:

R850 excl VAT

Student rate:

R9 500 excl VAT
excl.the Gala Dinner

Laser Cleaning and Welding Workshop:

R3 500 excl VAT

ENQUIRIES:

Email: cazwyn@one-eighty-degrees.com

Call: +27 21 447 5258

REGISTER HERE

CALL FOR PAPERS

