



ROBUST

SEPTEMBER 2022 MURRAY & ROBERTS GROUP MAGAZINE

120 YEARS OF ENGINEERING AND CONTRACTING EXCELLENCE

A MONUMENTAL ACHIEVEMENT

THE ROBUST EXCHANGE

ALEXANDRA MULLER AND JESMANE BOGGENPOEL
SHARE THEIR CAREER HIGHLIGHTS AND CHALLENGES.

NEWS

'MADE FOR MORE' HOSTS PARA SURFING
CHAMPIONSHIPS.

CONTENTS



FEATURE

3 120 YEARS OF ENGINEERING AND CONTRACTING EXCELLENCE – A MONUMENTAL ACHIEVEMENT

When looking in the Group's rear-view mirror, one cannot help but proudly reflect on the legacy we have created to date, but we also look forward to the promise of our excellent prospects across our substantial global footprint.

BUSINESS PLATFORMS

5 A MULTI-YEAR, RECORD-HIGH ORDER BOOK AND STRONG PROJECT PIPELINE

Clough reaches a major milestone on the Tallawarra Stage B project. The Mining platform continues to make a strong recovery and Murray & Roberts Cementation delivers artisan skills for the local community at its Venetia project. Wade Walker Solar delivers a micro-grid solar solution for a shopping centre in Kroondal.



THE ROBUST EXCHANGE

10 LEADING BY EXAMPLE

Robust Magazine talks to Alexandra Muller and Jesmane Boggenpoel, non-executive directors recently appointed to the Murray & Roberts Board.

NEWS

12 BOREHOLES PUT EDUCATION BACK ON TRACK FOR PHALABORWA SCHOOLS

Murray & Roberts Cementation, in collaboration with its client Palabora Mining Company, sponsored the drilling and equipping of boreholes at three primary schools in Makhushane village, near Phalaborwa.

12 RECOGNISING EXCELLENCE IN SAFETY PERFORMANCE

The Group's annual Safety Conference is an opportunity for leaders to share insights and innovations in safety from their project environments as well as to celebrate and recognise excellence in safety performance.

13 A 'BLACK & YELLOW' OM DIE DAM

It was 'Black & Yellow' around Hartbeespoort Dam as the Murray & Roberts Running Club dominated the 2022 edition of the Om Die Dam 50km race.

14 AN INVESTMENT THAT PAYS REAL DIVIDENDS

The RUC Cementation Mining Shaft Sinking Training Academy is a state-of-the-art purpose-built facility that produces the miners of the future.



15 MADE FOR MORE HOSTS PARA SURFING CHAMPIONSHIPS

Made for More was a winner at the 2018 Jack Cheetham and Letsema Awards and is an organisation that empowers and equips differently-abled athletes to pursue sporting careers across a diverse range of sports.

FEATURE

THE MURRAY & ROBERTS GROUP

120 YEARS

OF ENGINEERING AND CONTRACTING EXCELLENCE

A MONUMENTAL ACHIEVEMENT

In 1902, or 120 years ago, fellow Scotsmen, John Murray and James Stewart, formed Murray & Stewart. In the 1920s, Douglas Murray, John Murray's son, met Andrew and Douglas Roberts while studying civil engineering at Wits University, inadvertently founding the partnership that would eventually culminate in the formation of the global engineering and contracting Group we know today.

From our humble beginnings in 1902 as an emerging house builder in the Cape Colony, Murray & Roberts over the years expanded throughout Southern Africa, across industry sectors and into international markets, pioneering the introduction of new technologies, methodologies and materials in the process.

For its first 75 years, the Company developed under the leadership of its founding families. Douglas Murray inherited Murray & Stewart from his father John in 1928 and co-founded The Roberts Construction Co. in 1934 with his friend and colleague Douglas Roberts. They were later joined by Andrew Roberts, whereafter the three entrepreneurs played a leadership role in the formal development of the South African construction and engineering industry.

The Roberts Construction Company converted to a public company in 1948 and listed on the JSE Limited in 1951. Murray & Roberts was formed in 1967 following its merger with Murray & Stewart, but the two companies continued to operate as separate businesses until all operations fully consolidated in 1979.

For 120 years, Murray & Roberts played a leading role in the socio-economic development of many domestic and international geographies, participating in some of the world's leading engineering and construction projects. We essentially engineer and construct infrastructures that serve



TO PAGE 4

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FEATURE



“The Group’s R60 billion order book and record near orders of circa R60 billion include high-profile multinational projects, key to meeting energy and infrastructure needs.”

FROM PAGE 3

as monuments, as the infrastructures are there for the benefit of human development for decades to come. These monumental, and in some cases iconic projects, deliver potable water, reliable electricity, essential commodities, transport infrastructure and other ‘real economy’ utilities on which the modern world depends.

Today, the Group’s Purpose is to support the advancement of sustainable human development and we do this by designing and delivering projects across the engineering and construction value chain, providing lasting socio-economic and environmental value for local communities and host countries. These outcomes include Zero Harm for all our stakeholders, being an employer and contractor of choice, an industry leader in environmental, social and governance performance and delivering on our aspirations of maximum value recognition.

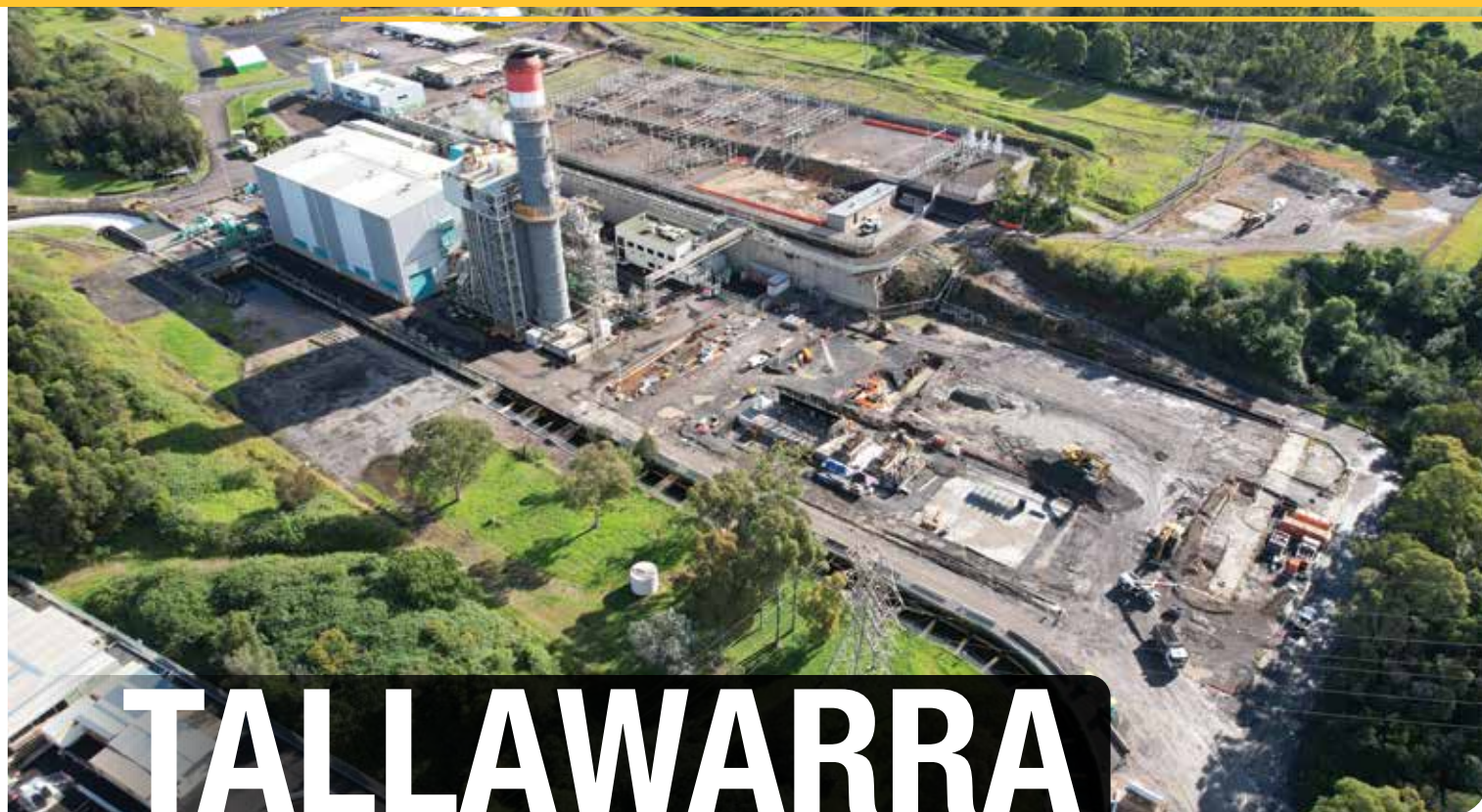
When looking in the Group’s rear-view mirror, one cannot help but proudly reflect on the legacy we have created to date, but we also look forward to the promise of our excellent prospects across our substantial global footprint.

Over several years of market instability, Murray & Roberts has demonstrated an ability to deliver on our long-term strategy. As the world emerges from the effects of the COVID-19 pandemic, the emphasis on infrastructure-led economic growth and the decarbonisation of the global economy, holds significant long-term opportunity for the Group. Notwithstanding challenges in the industry, our R60 billion order book and record near orders of circa R60 billion include high-profile multinational projects, key to meeting the delivery of countries’ energy and infrastructure needs.

Murray & Roberts enjoys a strategic position to enable fixed capital investments that support the advancement of sustainable human development. Staying true to this Purpose and our philosophy of *Engineered Excellence*, is how we intend to leverage this position for growth.

I am looking forward to seeing the Group flourish for years to come and the monuments yet to be built. **R**

BUSINESS PLATFORMS



TALLAWARRA

STAGE B PROJECT MILESTONE

In 2023, Australia will become the first country in the world to power up one of General Electric's ("GE") 320MW 9F.05 dual fuel hydrogen and natural gas turbines for grid electricity.

Clough was awarded the engineering, procurement and construction ("EPC") scope for Energy Australia's Tallawarra Stage B project in May 2021.

This project, located in Yallah, New South Wales ("NSW"), is set to be Australia's first hydrogen and gas capable power station and Australia's first net zero emissions hydrogen and gas capable power plant, with direct carbon emissions from the project offset over its operational life.

Tallawarra B project will provide over 300MW of dispatchable capacity for NSW when commissioned in 2024 and coincides with the retirement of the Liddell 1.6GW coal-fired power plant. The plant will be ready to start generating electricity for 150,000 homes with only 30 minutes notice and addresses the need for fast-start flexible capacity to complement renewables coming into the system.

Energy Australia, through its Tallawarra B project, is setting a new benchmark for how gas generators can reach net zero emissions as it will use green hydrogen and offset residual emissions.

The project team reached a major milestone with the arrival of the GE 320MW 9F.05 dual fuel hydrogen and natural gas turbine in Port Kembla.

The turbine is one of the project's main mechanical equipment items and the first of three major heavy lift items to arrive in the country. Weighing in at approximately 372 tonnes with a transport envelope of 11m x 5m x 5m, the turbine was exported from Greenville, South Carolina, USA, and spent over a month at sea en route to Australia.

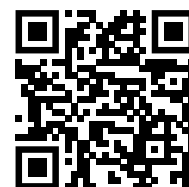
The turbine achieved the next stage of its journey when it was transported overland, from Port Kembla to the project site in Yallah.

This journey, by itself, was an impressive feat. Clough engaged the heavy lift transportation specialist, Lampson, to get the turbine to site safely. It was loaded onto a transport arrangement consisting of four prime movers pulling two 14-axle modular trailers with the turbine loaded on a beam-set arranged between the two trailers.

The overall length of this transport system was approximately 110m. It moved to site under Traffic for NSW and NSW Police escorts between midnight and 04:00 to minimise the impact on other traffic users. **R**



Video of arrival
of the GE Dual
Fuel Hydrogen
and Natural Gas
Turbine



<https://youtu.be/e5N3ZZ-3ocQ>

BUSINESS PLATFORMS



CEMENTATION AMERICAS COMPLETES RAISE BORE FOR SOLVAY CHEMICALS #5 SHAFT

Cementation Americas recently completed one of North America's largest raise-bored shafts at Solvay Chemicals #5 shaft in Green River, Wyoming.

Project requirements were to complete a 6,7m diameter shaft, complete with concrete liner, from surface to a depth of 459m. Concrete liner thickness increased as the depth of the shaft increased, so the initial concept was to complete a pilot slash raise with a raise bore drill and then slash from the top down to achieve the differing diameters to accommodate concrete liner thickness.

Cementation Americas instead proposed a full-face raise-bored shaft solution with variable diameters for each section. In collaboration with Sandvik, Cementation Americas designed, engineered and manufactured a reaming head that could be diminished in diameter rather than manufacturing outside wings with different diameters. The 8,1m diameter reamer consisted of 12 individual sections, 46 cutters and weighed 67,9 tonnes.

Once the collar excavation and lining were complete, Cementation Americas Strata 950 Raise Drill was set up over the collar and a 40cm diameter pilot hole was drilled. When completed and surveyed, the pilot hole's total deviation from vertical was less than 10cm over its length.

The raise-bored shaft, one of the largest in North America, was completed without a lost-time incident. **R**



SOLVING THE POWER SUPPLY CHALLENGE

Wade Walker Solar continues its commitment to delivering green energy solutions for its clients.

In its drive for energy security, the Aug Behrens shopping centre in Rustenburg, South Africa, was fitted with a micro-grid solar photovoltaic ("PV") system.

The Aug Behrens installation is a 300kW solar PV hybrid system. The system was integrated with a pre-existing 156kWp grid-tie solar system and an additional 342kWp of solar PV installed to offset the daytime consumption of the shopping centre.

The Battery Energy Storage System ("BESS") design provides energy security with no interruptions to power supply in the event of loadshedding and provides an attractive return on investment during the lifetime of the system. Electricity cost savings are made possible by means of energy arbitrage with the BESS and daily PV production during active sun hours.

Comments Heinrick van Niekerk, technical director Wade Walker Solar, "These micro-grid systems, which are now being funded by banks, will become increasingly popular with the power supply challenges we are currently experiencing." **R**



BUSINESS PLATFORMS



THE MINING PLATFORM MAKES A STRONG RECOVERY

The Murray & Roberts Mining platform has put the economic effects of the COVID-19 pandemic behind it and its order book has now recovered to pre-pandemic levels.

“Our order book eroded in the immediate aftermath of the global economic shutdown caused by the pandemic but has now recovered nicely and future prospects look good as there is a significant pipeline of new projects we’re bidding on,” says Mike da Costa, Mining platform CEO.

The Mining platform is active in almost every major mining jurisdiction and its major projects include the Venetia Underground Project in South Africa, the Jansen potash project in Canada, the Kennecott Utah Copper Keystone project in the USA, the Oyu Tolgoi mine in Mongolia, the Grasberg mine in Indonesia and the Tanami mine in Australia.

Its recent acquisition of Terra Nova Technologies in San Diego and Insig Technologies in Australia expanded the platform’s capabilities.

Terra Nova has given the platform a foothold in the materials handling market. The company designs, supplies and commissions overland conveyors, crushing/conveying systems, mobile stacking systems and in-pit crushing and conveying systems.

“Terra Nova is a perfect fit for the platform and gives us the capability of delivering, for example, conveying systems of up to 12 000 tonnes per hour capacity,” says Mike. “Its biggest market is North America, but it is also active in South America and recently won a major contract in Chile.”

Concludes Mike, “Insig Technologies is central to our digital strategy and our move to increase efficiencies and safety performance. We will be using Insig’s systems in-house initially but will ultimately market them to the wider mining industry.” **R**



BUSINESS PLATFORMS

TRAINING PROGRAMME AT VUP DELIVERS SOUGHT-AFTER SKILLS

Thanks to Murray & Roberts Cementation's training initiatives at the Venetia Underground Project ("VUP") near Musina in Limpopo province, two community members – Lucky Ndou and Nakedi Montja – realised their dreams of becoming diesel mechanics, a qualification in high demand in South Africa.

Since the inception of the project, which will see De Beers' Venetia mine transitioning to an entirely underground operation, Murray & Roberts Cementation, responsible for the sinking, equipping and commissioning of two underground shafts and a decline shaft at the VUP site, has trained many employees drawn from the local community in a variety of mining and engineering skills through its learnership programme.

"We're delighted with the success of the programme, which has seen many employees – all recruited locally – upscaling their skills to higher levels," says Japie du Plessis, project executive, Murray & Roberts Cementation. "Our approach is to employ local people for entry-level positions and then, if they have the potential, further develop their skills to allow them to qualify for much more senior roles, such as trackless mobile machine operators, diesel mechanics, electricians, riggers and miners, as well as shift supervisors."

He says that many learners, during their skills development journey, spend time at Murray & Roberts Cementation's world-class training academy at its Bentley Park facility near Carletonville on the West Rand.

Lucky Ndou joined Murray & Roberts Cementation in 2013 as a general worker in stores but was given the opportunity in 2019 to become one of the company's apprentice learners. This marked the start of three years of training to become a qualified diesel mechanic. He says that his love for fixing machines, apparent at an early age, motivated his decision to upgrade his skills. As he says, "I want to express my technical mind through my hands."

According to Ndou, his training was challenging at first, but became easier as he progressed, and the subject material became more interesting. His advice to those considering a similar journey is simple: "Nothing is impossible if you work hard and commit yourself to achieving your goal and making your dreams come true."

Nakedi Montja joined Murray & Roberts Cementation as a general worker on the decline in 2019. As a child, he was always around people who fixed cars. "I developed similar interests and fell in love with fixing engines," he recalls. "This is why I've chosen to qualify as a diesel mechanic."

He recommends a career as diesel mechanic to anyone who is ardent about machines and loves working with their hands. Like Lucky, he believes that people should follow their dreams. "If you want to be happy, do not dwell on the past," he says. "Focus on the future and your life will reflect like a diamond."

Du Plessis says Murray & Roberts Cementation is very proud of the achievements of Ndou and Montja. "As a company, we are committed to uplifting communities and one of the ways we do this is by providing community members with skills that will last a lifetime. We've been working on the VUP for roughly 10 years, and it is very rewarding to see how our training initiatives have transformed the lives of so many employees." **R**



Lucky Ndou



Nakedi Montja

BUSINESS PLATFORMS

OVERCOMING NET ZERO CHALLENGES WITH INDUSTRY 4.0 TECHNOLOGIES

Booth Welsh and its company brand iTech have been working on an exciting Industrial Internet of Things (“IIOT”) testbed project with the National Manufacturing Institute Scotland (“NMIS”)



NMIS is a place where the manufacturing industry, academia and the public sector work together on groundbreaking manufacturing research to transform productivity levels, make companies more competitive and boost workforce skills.

The Resume testbed was designed to support the NMIS digital factory by providing digital connectivity and ISA-95-inspired data integration for machines and equipment. The NMIS testbed is one of 16 in the UK that are part of a pilot scheme run by the High Value Manufacturing Catapult, a group of manufacturing research centres. Each testbed specialises in a specific technology that has been identified as critical in driving future manufacturing performance across the UK by Made Smarter, a national movement to drive growth among UK makers. This experimental research is collecting data from both legacy and fully digitalised machinery, allowing for informed decisions about Net Zero and other manufacturing challenges. The final solution will enable seamless, synchronised and centralised real-time data acquisition from existing machinery, equipment and the new environmental monitoring system for data processing, dashboarding, analysis and storage, both locally and pushed to the cloud, to allow original equipment manufacturers (“OEMs”) remote access.

As the United Kingdom strives for net zero emissions by 2050 and Scotland by 2045, the need for more sustainable manufacturing processes has never been greater. This project will make data generated by machine and equipment trials more accessible, which will reduce the need for travel, in turn lowering carbon footprint, conserving energy and increasing the overall efficiency of the trials.

Booth Welsh and iTech are working together to design, supply, install and commission of machinery and equipment within an OEM and customer sandbox testbed. This work package will be delivered using a variety of networking and machine interface methods. The data collected from all assets will be aggregated into an analytics and dashboard software platform for further analysis and insight, both locally and remotely, to facilitate machine learning activities and artificial intelligence to aid in troubleshooting and preventive maintenance.

Both Booth Welsh and iTech have been working with Industry 4.0 technologies over the last four years and believe technology has a key role in developing solutions for current environmental challenges and providing businesses with long-lasting solutions and tools to mitigate emissions, save energy, resources, money, time and wastage. This exciting collaboration with NMIS using IIOT technology puts Environment 4.0 into practice. **R**

THE ROBUST EXCHANGE

Robust Magazine talks to Alexandra Muller and Jesmane Boggenpoel, non-executive directors recently appointed to the Murray & Roberts Board.



ALEX MULLER
NON-EXECUTIVE DIRECTOR,
MURRAY & ROBERTS GROUP

WHERE DID YOU GROW UP?

Johannesburg

WHAT WAS YOUR FIRST JOB?

I applied for 'Vac Work' at PricewaterhouseCoopers ("PwC") during the holidays while I was still in Standard 9 and matric.

WHAT WAS YOUR CAREER JOURNEY TO WHERE YOU ARE NOW?

I qualified as a chartered accountant and subsequently worked at PwC for 20 years. During that time, I worked through the ranks until I became a partner in 2010. I left PwC in 2019 to pursue opportunities in the Non-Executive Director space.

WHAT CAREER MILESTONES ARE YOU MOST PROUD OF HAVING ACHIEVED?

Firstly, achieving my dream of becoming a chartered accountant. I was also very proud of leading and working with a very capable and highly-respected team at PwC.

WHAT ARE SOME OF THE CHALLENGES YOU FACE IN YOUR CURRENT ROLE?

COVID-19 and the subsequent macroeconomic, socio-political and, more recently, geopolitical developments seem to have turned the world on its head. Staying abreast of these is imperative and making sure the businesses I am involved with are thinking critically and nimbly about the consequential challenges and opportunities.

WHAT EXCITES YOU ABOUT THE FUTURE IN YOUR INDUSTRY?

I am privileged to work with businesses in various industries. The pace of change, coupled with technological innovation and advancements focusing on the betterment of society and the environment, means that these businesses have the opportunity to make significant impacts in this space. Being a part of businesses driving this change is challenging, exciting and very rewarding.

WHAT IS THE BEST PIECE OF CAREER ADVICE YOU HAVE RECEIVED?

Lead by example and always focus on doing the right thing and having the right intent.

WHAT ARE SOME OF YOUR INTERESTS OUTSIDE OF THE OFFICE?

I love playing golf and doing yoga. I am also an avid reader. More recently, I started playing bridge, which I am thoroughly enjoying.

WHAT WOULD PEOPLE BE SURPRISED TO KNOW ABOUT YOU?

I love reading fantasy adventure novels – from Harry Potter to Lord of the Rings and everything in between. I also have a 16-year-old African Grey Parrot who keeps me highly entertained with his colourful vocabulary and comments! **R**



JESMANE BOGGENDOEL

NON-EXECUTIVE DIRECTOR, MURRAY & ROBERTS GROUP

WHERE DID YOU GROW UP?

I was born in Port Elizabeth and moved to Johannesburg when I was four. We lived in Westbury, which is a marginalised suburb in Johannesburg affected by unemployment, crime, substance abuse and gangsterism. Despite these challenges, my parents raised us with love and faith and instilled values of honesty and hard work.

WHAT WAS YOUR FIRST JOB?

I spent three years at KPMG completing my articles as part of qualifying as a chartered accountant. After a year and a half in the auditing department, I moved to corporate finance, where I dealt with valuations and due diligence. This gave me the foundation for my future career.

WHAT WAS YOUR CAREER JOURNEY TO WHERE YOU ARE NOW?

After KPMG I worked for Anglo American in its corporate finance division for two years and then moved to a private equity firm. I have also served on numerous boards in South Africa and internationally. Additionally, I was also head of Business Engagement for Africa at the World Economic Forum in Switzerland for three years. After spending my formative years in corporate, I pursued entrepreneurial ventures, published my first book, *My Blood Divides and Unites*, and recently launched an online course *Diversity and Inclusion in the Workplace – Race and Gender*, aimed at helping organisations navigate diversity and inclusion in the workplace.

I am currently the Co-Managing Partner of AIH Capital, a 100% black women-owned and managed private equity fund, to uplift and impact women through our investment choices.

In addition to qualifying as a chartered accountant, I completed my Master's degree in Public Administration at Harvard, which gave me international exposure and broadened my skills beyond finance. It allowed me to benefit from leadership, politics and international development courses and form bonds with my diverse and dynamic classmates from around the world.

WHAT CAREER MILESTONES ARE YOU MOST PROUD OF HAVING ACHIEVED?

I grew up in apartheid South Africa as a woman of colour and, despite my academic and professional success, I still had lingering emotions to process and deal with. Writing and publishing a book about my experience allowed me to reframe my involvement and bring closure. *My Blood Divides and Unites* is about racial reconciliation, healing and inclusion and telling my story and those of friends and colleagues around the world. I then developed a course for the workplace on racial and gender diversity and inclusion, *Dealing with the Heart of Race and Gender Inequality in the Workplace*, which was launched this year on Udemy, the international online learning platform.

The following is an extract from my book: 'We are all authors, crafting the story of our lives. We continually write and rewrite, interpret and reinterpret what has happened to and around and because of us, reshaping the narrative in an attempt to make sense of it all'.

I firmly believe that the world will be less divided and fractured if we can all explore and reconcile our own contradictions and conflicts.

WHAT ARE SOME OF THE CHALLENGES YOU FACE IN YOUR CURRENT ROLE?

Mainly, establishing a track record for the fund. To date, R400 million in committed capital has been raised, which is progressing towards our target fund size, and the managing partners

have successfully worked together for 14 years building our parent investment company, AWCA Investment Holdings. Having said this, fundraising requires thoughtful engagement and follow-up with prospective Limited Partners.

WHAT EXCITES YOU ABOUT THE FUTURE IN YOUR INDUSTRY?

I am excited about being able to shape my own future and the future of others by addressing inequality and inclusion. In the early stages of my career, I was in a position of receiving and implementing and now, having gained more experience, I can create and build through my book, my course and AIH Capital, with a more significant opportunity for impact.

WHAT IS THE BEST PIECE OF CAREER ADVICE YOU HAVE RECEIVED?

Don't let a setback derail your progress. If you fall, just get straight back up.

WHAT ARE SOME OF YOUR INTERESTS OUTSIDE OF THE OFFICE?

I love to travel and have visited 70 countries so far. My goal is to reach 100 countries in my lifetime. I am also learning to speak German. My great-great-grandfather is German and my twin sister learned German as a child. Now, when I watch Netflix, I watch in German with English subtitles.

WHAT WOULD PEOPLE BE SURPRISED TO KNOW ABOUT YOU?

I come from three consecutive generations of identical twin girls, a four in 100 000 000 phenomenon!

My grandmother Lillian and her identical twin were born in Sophiatown, Johannesburg, in 1924. Lillian gave birth to identical twin girls (my mother and her sister) in 1945 and then my mother gave birth to my identical twin Julie-Ann and me. My sister qualified as a medical doctor and lives in Australia. **R**

NEWS

BOREHOLES

PUT EDUCATION BACK ON TRACK FOR PHALABORWA SCHOOLS



Murray & Roberts Cementation, in collaboration with its client Palabora Mining Company ("PMC"), sponsored the drilling and equipping of boreholes at three primary schools in Makhushane village, near Phalaborwa. The St Patrick Mathibela, Makhushane and Bollanoto primary schools had long been without a reliable water supply. According to Fred Durand, senior project manager at Murray & Roberts Cementation, the company approached the client to assist.

"In partnership with our client, we were pleased to support this borehole project," said Durand. "It has given these schools' learners safe drinking water, flushing toilets and irrigation for their garden, which supplies vegetables for the school's feeding scheme."

At the handover ceremony in mid-June, Durand said Murray & Roberts Cementation appreciated the opportunity to participate in this valuable initiative. He emphasises the importance of education in creating a future for these young learners.

"This initiative is part of our alignment with the corporate citizenship commitment of all companies in the Murray & Roberts group," he says. "We support a socially

responsive culture and participate wherever we can in the economic development and sustainable growth of communities in which we operate."

PMC's manager for transformation, stakeholder engagement and communications, Abby Ledwaba, applauded Murray & Roberts Cementation's willingness to contribute to the mine's efforts to develop local communities.

"As PMC, we always believe in giving back to the community and that is what we have been doing," said Ledwaba. The borehole installation is expected to work reliably for at least 15 years, keeping the schools well supplied with fresh water. **R**

RECOGNISING EXCELLENCE IN SAFETY PERFORMANCE



The Murray & Roberts Group aspires to deliver its projects with Zero Harm to employees, partners and host communities. People-centric leadership is essential to a connected and collaborative effort towards Zero Harm. The leadership teams are accountable for ensuring a workplace that prioritises health, safety and the environment and for cultivating a culture that drives a Zero Harm mindset.

Says Henry Laas, Murray & Roberts Group CE, "Safety is a managed outcome and we will achieve the level of excellence that we demonstrate that we want. The ultimate responsibility for safe operations therefore rests with leadership."

The Group's annual Safety Conference is an opportunity for leaders to share insights and innovations in safety from their project environments, as well as to celebrate and recognise excellence in safety performance.

The awards were held at the Douglas Roberts Centre in Johannesburg, South Africa, and it was the first time that safety leaders were gathered in-person since the outbreak of the COVID-19 pandemic. Thokozani Mdluli, Murray & Roberts HSE executive concludes, "Our safety performance compares to the best in our market sectors and this year we had 21 Zero Harm projects, much improved from 13 projects last year, which proves that a zero harm mindset is possible."

NEWS

A 'BLACK & YELLOW' OM DIE DAM

It was 'Black & Yellow' around Hartbeespoort Dam as the Murray & Roberts Running Club dominated the 2022 edition of the Om Die Dam 50km race.

The club took three golds in the men's top 10 and a big haul of seven in the women's top 10. Another podium clean sweep in 2022 and a dominant display in the top 25 in both male and female categories.

For the second year in a row (COVID-19 interruption excluded), the Bedfordview-based club provided the women's winner as Adele Broodryk stormed to victory in 3 hours 23 minutes and 48 seconds, just 15 ticks of the clock shy of the course record. "I felt completely in control and even though I passed the marathon in a new personal best of 2:46, there was a lot left in the tank at the finish line," said the sports scientist from Potchefstroom, who finished 29th overall. Her Comrades preparations are 'spot on' she says.

The 2016 Comrades marathon winner, Charne Bosman, ran her fastest time ever on the undulating course (at the age of 46) to clinch second, while the rest of the women in Black & Yellow secured from fifth through to ninth place via Cobie Smith (3:40), Danette Walley (3:41) defending champion Caroline Josten (3:42), Janie Grundling and Yolande Mclean, ninth in 3:45. All in all, there were 11 of the team in the top 20 women.

Lutendo Mapoto took the lead of the race between the 40km and 42km mark, only to run into energy troubles on the last tough drag up to the finish line at the Hartbeespoort High School, but



eventually finished just more than a minute off the winning time in 2 hours 58 minutes and 35 seconds. His teammate from Limpopo, Pfarelo Mathada, was sixth and veteran Thulani Magagula, was eighth in 3:06. There were another five Murray & Roberts men in the top 25, confirming the depth that manager Dana Coetzee has established in the team.

The podium clean sweep, a 19th for the club this year alone, came from the veteran women as they dominated the over-40 category through Bosman, Josten and Grundling. Magagula took second in the veterans' men's section, while Bethuel Netshitenzhe was victorious in the over-50s in a scintillating 3:18, cementing the win with almost four minutes to spare. The remarkable Val Watson, on the comeback trail after battling illness, won the grand masters category title, in 4:52.

Club chairman, Ed Jardim, said, "I'm grateful that we can run and race again. The old saying goes: 'You don't know what you have till it's gone.' Well, seeing the team, our performances and spirit throughout reminded me of how lucky we are to have it all back. When 'Chariots of Fire' sounded at the start of Om Die Dam, it reminded us of that great race, the Comrades, later this year. We'll do the same again there as we did this weekend, I'm sure." **R**



FROM PAGE 12

In addition to 21 Zero Harm projects, the following projects and companies were recognised for safety excellence.

BEST SAFETY PERFORMANCE AT PROJECT LEVEL

- Freeport Indonesia Project
RUC Cementation Mining
- Meerkat Project
OptiPower Projects
- Lombrum Project
Clough

BEST MAJOR INCIDENTS PREVENTION PROGRAMME

- Los Gatos Project
Cementation Americas
- Kusile Project
Murray & Roberts Power & Energy
- Snowy 2.0 Project
Clough
- LNG Canada Project
Clough

BEST EMPLOYEE PARTICIPATION PROGRAMME

- Edna May Project
RUC Cementation Mining
- Kusile Project
Murray & Roberts Power & Energy
- Tallawarra Project
Clough
- LNG Canada Project
Clough

SPECIAL RECOGNITION AWARDS – FOR PROJECTS OR INDIVIDUALS WITH OUTSTANDING CONTRIBUTIONS TO SAFETY PERFORMANCE

- Murray & Roberts Cementation
- Training Academy
RUC Cementation Mining
- Cementation Americas
- V&A Waterfront Organica Project
Murray & Roberts Water
- John Weir
Clough
- Tom Richards
Clough
- Booth Welsh



NEWS

AN INVESTMENT THAT PAYS REAL DIVIDENDS

The RUC Cementation Mining Shaft Sinking Training Academy is a state-of-the-art purpose-built facility that produces the miners of the future.



With an industry-wide skills shortage, RUC has taken the lead by investing in recruiting, training and upskilling potential candidates for a career in mining.

Located at RUC's Kalgoorlie Service Centre, the training academy includes classrooms, an operating shaft and virtual reality learning to provide a well-rounded learning experience with a mix of theory and practical training, exposing trainees to modern shaft sinking practices. After a positive assessment, trainees are mobilised to projects where they are exposed to 'the RUC Way' – a commitment to safety, quality, environmental stewardship and the delivery of its promises to clients.

The Cadet Programme complements the training academy by attracting people who are new to the mining industry, from school leavers to mature-age candidates, to create a new generation of miners with a supported learning culture.

RUC Mining has also built relationships with Aboriginal and Torres Strait Islander peoples and encourages indigenous recruits to the Cadet Programme and ultimately full-time employment.

This investment in knowledge and training has paid dividends with the Cadet Programme, retaining 48% of its recruits and all having secured permanent employment with RUC on its projects in Western Australia and Tasmania. **R**

NEWS

MADE FOR MORE HOSTS SA PARA SURFING CHAMPIONSHIPS



Small, consistent and contestable conditions made for an incredible two-day event at the iconic New Pier, in Durban, for the 2022 TyreLife Solutions SA Para Surfing Championships.

Although the forecast was looking grim, the weather held up nicely and contestants were blessed with a beautiful day for the competition on Saturday and a chilly day, but with the rain holding off for most of the morning, on Sunday.

Organiser and host of the event, local NPO, Made for More's Founder, Julia Van Zyl, said, "It is our biggest joy and privilege to host the country's best adaptive surfers and to witness the sport growing year by year. Each year, the vibe on the beach grows, the smiles get bigger and the passion, skill and dedication of the athletes more palpable. For us, it's so much more than just surfing - it's access, inclusion, opportunity and mostly it's belonging - we really are a close-knit community."

A total of 50 surfers (34 men and 16 women) competed from four provinces around the country, including Western Cape, Eastern Cape, Gauteng and KwaZulu-Natal. In the end, it was the home province, KwaZulu-Natal, which took top honours, with Western Cape in second and Eastern Cape and Gauteng in third and fourth, respectively.

From this national event, the South African team will be selected by Surfing South Africa to go to the ISA World Para Surfing Championships in Pismo Beach, California, USA, in December this year.

The Prone Assist division is always the biggest and most hotly contested division at Nationals and this year was no different, with many new development surfers coming up the ranks from grassroots programmes in both Cape Town and Durban.

Coach and water assistant, Wendy Heslop, said, "I can honestly say that this weekend was the highlight of my year and our monthly Made for More Surf sessions are at the top of my list, when my heart is happiest. The heart, passion, organisation and time Made for More put into last weekend showed and the leadership is a great example of service and love. I am blessed to be a part of it all."

The feeling and incredible vibe on the beach witnessing the adaptive surfing community both in and out of the water was truly humbling, emotional, inspiring and full of joy.

Made for More was the winner at the 2018 Jack Cheetham and Letsema Awards. It is an organisation that empowers and equips differently-abled athletes to pursue a sporting career across a diverse range of sports. **R**





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