

President's Corner



UPDATE Available



When looking at your newly acquired smartphone, that red dot with a numerical value, for some, might be meaningless. For me, suffering with a mild case of FOMO, I cannot stand it if my phone displays all the notifications on updates, new text messages or unread mails. I need to know what has changed. On an app upgrade, I therefore read the upgrade notes made on the application. I fear missing out on a special feature that will make my life better or easier.*

This brings me to message that I would like to leave you with. You will not know what you miss if you do not know what you have. The upgrade from Ver1.0 to Ver2.0 will not bother you if you only downloaded Ver3.0. Once downloaded, you get the full capacity of the new app. In training and life, on the contrary, it does not work that way. Once you “downloaded” your certificate, it does not necessarily provide you with the experience, which unfortunately comes with time. Forty years’ experience, takes forty years – even in the new technology age where the technology gets replaced every 6 months. The question raised here is how do we stay abreast. In life, we need to learn from the past, and how that and our current status will influence the next UPDATE.

Each of us has the responsibility, believe it or not, to UPDATE our companies to a better environment for the sake of each other and the next generation. If we check our desks and To-Do-Lists, we will find some areas that could do with an UPDATE, and even in some cases, a DELETE. We need to know where to aim our energy and where to cut back. In order to reach your destination, you first need to know where you are.

In order to achieve your goals for 2018, consider the words of a famous South African Bank – “What is your next ...?” If you know what you want, determine what you need to do next to get yourself closer to that goal on a daily basis. Keeping STATUS QUO is LOSING GROUND.

To all members of SANIRE, may 2018 be a blessed year. To those attempting exams this year, good luck. To those looking for appointments, good luck. To those currently appointed, GOOD LUCK. May 2018 bring to each member the prosperity that we strive for and the health to pursue this with all our energy.

Keep those red dot numbers down

Jannie

**FOMO – Fear Of Missing Out*

ISRM News

Recent developments

A reminder of decisions approved at the ISRM Council meeting, held at AfriRock 2017:

- The full name of the society has changed to the “International Society of Rock Mechanics and Rock Engineering”, but the acronym will remain “ISRM”.
- Prof. Reşat Ulusay was elected as the next ISRM President. He will start his term of office after the 14th International Congress of the ISRM, which will take place in Foz do Iguaçu, Brazil, in 2019.

Online lectures

Two ISRM Online Lectures are available for viewing on or downloading from the ISRM website (www.isrm.net):

- 19th Online lecture: Professor Xia-Ting Feng – Rockbursts at deep tunnels
- 20th Online lecture: Professor Milton Kanji: – Dam Foundations affected by Geological Aspects

The 21st Online lecture will be presented on the 15th March by Professor Laura Pyrak-Nolte and will be on geo-physical characterisation of fractures.

ISRM Conferences

The following ISRM Conferences are scheduled:

Event title	Start date	End date	Country	City
1st International Conference on Advances in Rock Mechanics	2018-03-29	2018-03-31	Tunisia	Hammamet
EUROCK 2018 - the ISRM European Rock Mechanics Symposium	2018-05-22	2018-05-26	Russia	Saint Pe-
RockDyn-3 - 3rd International Conference on Rock Dynamics and Applications - an ISRM Specialised Conference	2018-06-26	2018-06-27	Norway	Trondheim
VIII Brazilian Rock Mechanics Symposium	2018-08-28	2018-09-01	Brazil	Salvador
ARMS10 - the ISRM 10th Asian Rock Mechanics Symposium	2018-10-29	2018-11-03	Singapore	Singapore
2019 Rock Dynamics Summit in Okinawa	2019-05-07	2019-05-11	Japan	Okinawa
ISRM 14th International Congress on Rock Mechanics	2019-09-13	2019-09-18	Brazil	Foz do Iguaçu
YSRM2019 - the 5th ISRM Young Scholars' Symposium on Rock Mechanics and REIF2019 - International Symposium on Rock Engineering for Innovative Future	2019-12-01	2019-12-04	Japan	Okinawa
EUROCK 2020 - Hard Rock Excavation and Support - an ISRM regional Symposium	2020-06-00	2020-06-00	Norway	Trondheim

Sub Surface Profiler

The Sub Surface Profiler is a light-weight and patented ergonomic design that allows for one handed operation by one person in much the same way as a paint roller. Data collected is wirelessly transmitted and processed in real time, giving instant feedback on rock structures while scanning.

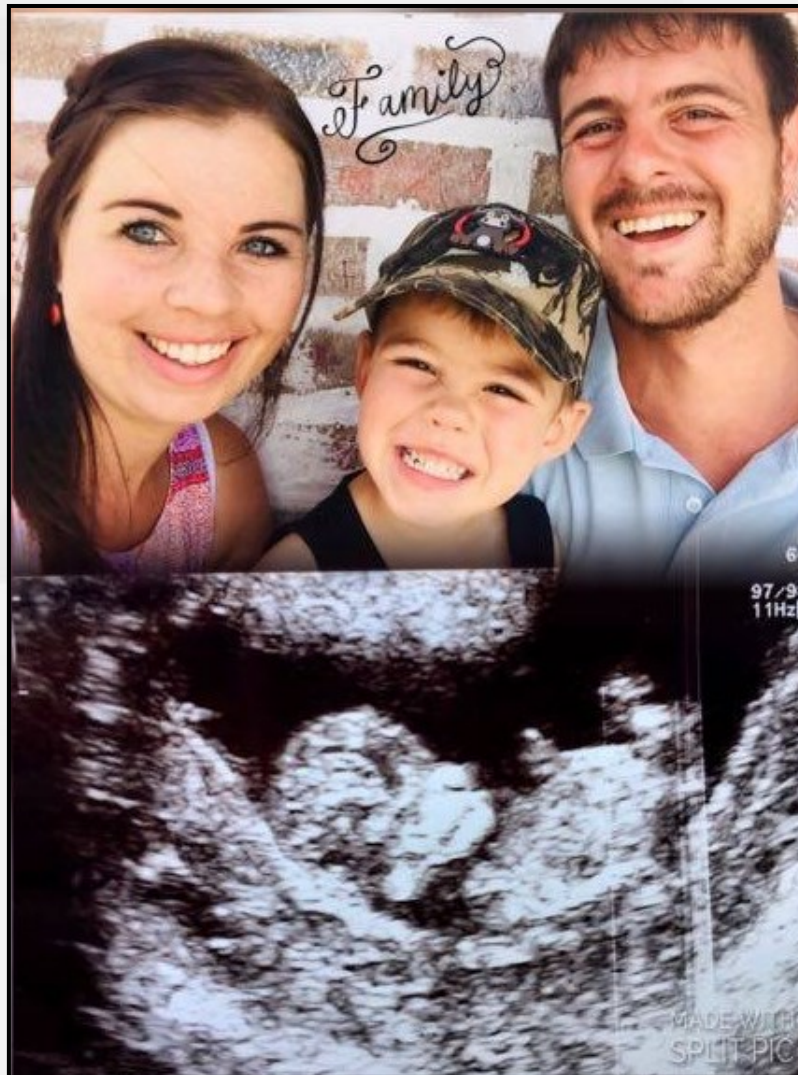
Ground Penetrating Radar. Reimagined



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MINING

Rock Star of the Quarter



Full Name: Dewald Adriaan Wynand Lamprecht

Position: Unit Manager Rock Engineer

Company/ Organisations: Sibanye-Stillwater – Driefontein BUI (I# & 6#)

Date and Place of Birth: 17 October 1986, Randfontein

Education: FMDP, COMSOC I, COM SCC, COM REC

First Job: Top Vending – Driver

Personal Best Achievement/s: Obtaining my Rock Engineering Certificate

Philosophy of Life: Never judge anyone; you never know what they went through in life.

Favourite Food/Drink: Medium rib eye steak with mash and vegetables, together with and a glass of wine.

How did your career in the mining industry begin and where are you now?

In 2007, I was appointed as a Strata Control Observer at Gold Fields. In 2012, SibanyeGold was unbundled from Gold Fields and was recently renamed Sibanye-Stillwater. Though the name has changed a few times over the past ten years, the rocks are still the same, and I am no longer just observing them. I have been appointed as a Unit Manager Rock Engineer for Driefontein Business Unit 1 (1# & 6#).

Why did you choose Rock Engineering?

I'd like to claim being a genius in choosing this line of work some 10 years ago, but I simply believe that God guided me into a professional career where I can give guidance and make a positive difference, investing back into the mining industry and its people.

Please tell us a bit more about your career journey?

Youth allows for one to take on any challenge. In October 2007, I started out as a Strata Control Observer on Kloof 7#, doing scale-support audits after underground visits on a daily basis. I quickly figured this was not the "challenge" I thought it might be, and though I dreaded the idea of going back to the books again, I started studying towards my Strata Control Certificate and passed that in 2008, when I was also appointed as a Strata Control Officer. So, I had the papers and lined up a better challenge, but needed more experience. I moved numerous times between the shafts on Kloof division where I gained lots of experience in different mining types: Reef types, Shallow and Deep ground conditions, and particularly also learning how to work with different people.

In 2012 while working on Kloof 4#, Alan, Ivan and I decided to start a study group where we could challenge each other and learn together and from each other. I passed my practical exam and also received appointment as Unit Manager Rock Engineer in 2015, only to quickly realise this was not going to be any "walk in the park". I had to deal with a fatal accident the day after my appointment. Nothing like being "dropped in the deep end", and since February 2016, I have also been given the added responsibility of Driefontein 6#. No doubt, I will keep learning, keep developing and keep putting back into the industry and the people that make all this possible for my family and me.

What are some areas that you believe will become of increasing importance in the near future of the Rock Engineering discipline?

The big, easy, mining blocks are becoming less of the norm. As we get to the ends of our mines, more and more pillar extraction areas will simply have to be mined. These areas offer increased opportunity to combine mine or mine area design and layout with a more intimate knowledge of the seismic character of the rocks we mine. Crucial in this future, challenging mining scenario, will be the behaviour of our people. I really think that training, coaching and adjusting the behaviour of people and their mind-set towards mining will be crucially important in maintaining the viability of getting to every last bit in a safe and profitable way. Rock engineering is a science and we can do the calculations on sci-fi mining ideas, such as a core cutting machine mining or the like, but given our narrow mining width. I believe the human element will always be critical to our success. If people see and experience Rock Engineers as being the ones who keep them safe, who secure their jobs, who keep the mining company alive, who need to be listened to, and whose advice needs to be taken seriously, then we will have achieved a major breakthrough, in my opinion.

What advice would you offer people aspiring to be in your position?

I always tell people to study hard. Start somewhere, even if it is by simply picking up and reading a book. Combined with this, is the need or the hunger to gain experience – learn to do the hard yards before trying to tell others to do it! Self-discipline, together with a willingness to be the least, to be the one that gets pushed into the worst conditions, is important. This builds not only your character but adds an automatic level of respect – you're not just a pen-pusher or number cruncher trying to make people's lives difficult; you know what you are doing, why you are doing it and you know how this will impact upon the people. Without this experience, you will never be able to convey these crucial insights to people in a way that will make them accept and execute in trust.

In the mining setup, it is very easy to be a slacker. If you want to get ahead, be prepared to constantly do your best, even if no one is watching over you or patting you on the back. Finally, if you don't enjoy what you are doing, stop and find something else!

Who is your role model / mentor?

Growing up in a mining community, with my father being a Rigger-Ropesman Foreman working most weekends, I always admired him for never complaining, leaving or staying at home when life got tough. He taught me a lot about having pride in one's work, about realising that you were put here in this position with a calling to do well – to be a light in the dark.

I don't want to put any name down for a specific role model in my career path, but every Rock Engineer that has crossed my path with guidance, advice, training and telling success stories has been and continues to be a role model to me. My current mentor is Jerry Wienand, who has helped me to stay on the right track with peer reviews, mentor agreements, cross auditing, and helping with preparation work on the crucial shaft pillar extraction we will be doing in the near future.

Finally, and I know this may sound strange, but one of the best mentors in my life has been failure. I don't like failing, but when I make a mistake, I make a point of learning never to repeat it.

What is the best advice you have ever been given?

Life is tough, but it is exactly these challenges that build us into the characters that we are. Never give up, make time for your family and for yourself, and see every ROCK in your way as an opportunity to grow, to get stronger. LIFE IS SHORT, ENJOY IT BUT KNOW THAT THERE IS AN EVEN BETTER ETERNITY AFTER THIS. Pick up the ROCKS in your way and throw them into your small pond of life – breath deep, and take time to watch the beautiful ripples it makes.

Competition Winners

Photo category

First prize: Dewald Lamprecht



Second prize: Jeanne Walls



Competition Winners

Photo category

Third prize: Denisha Sewnun



Video category

Adriaan van Zyl



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Technical Corner

Visit to Honduras

By G.C. More O'Ferrall

Introduction

Honduras is a Central American country, bordered by Guatemala, El Salvador and Nicaragua. It has the Caribbean Sea to the Northeast and the Pacific Ocean to the South (Figure 1).

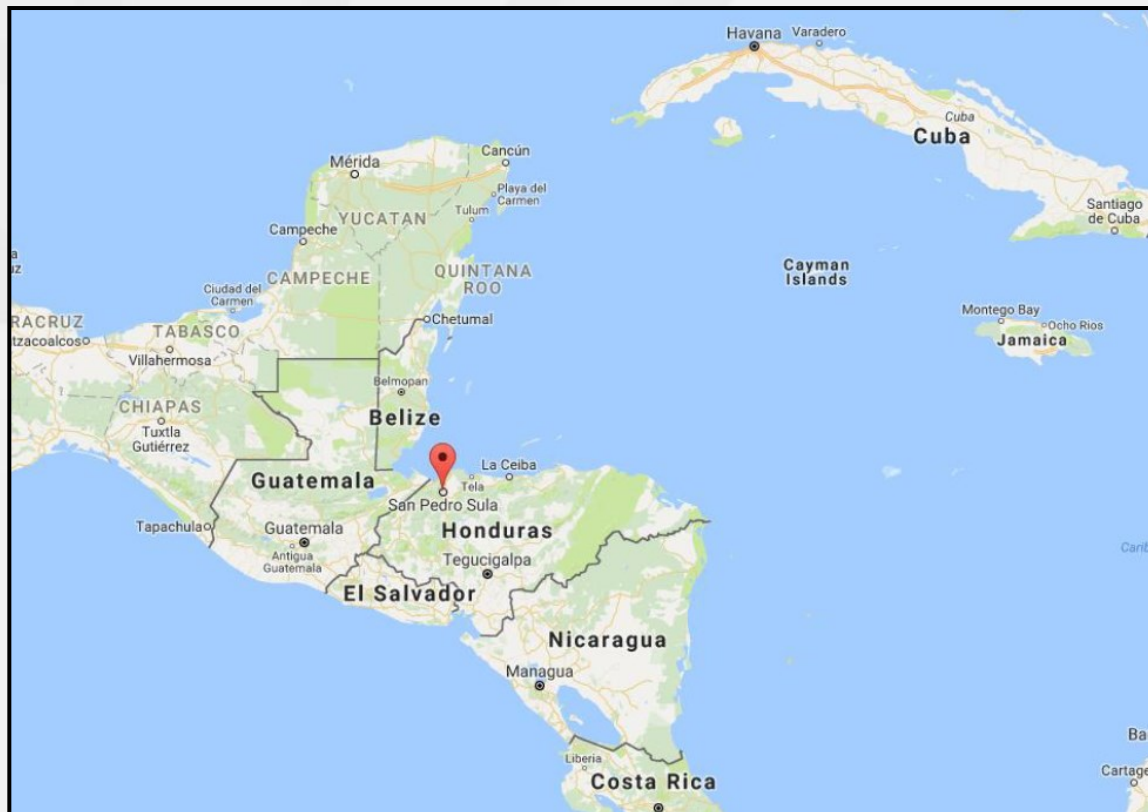


Figure 1: Location of Honduras in relation to other Central American countries

The Bay Islands, which are a scuba diving and snorkelling destination, are along the 1000 km long Mesoamerican Barrier Reef (more on this later).

Mine visit

Honduras currently has one underground mine, the El Mochito Mine. The mine is situated in a very mountainous area, approximately 2 hours' drive (88 km) from San Pedro Sula, the primary industrial centre and the second largest city in Honduras (Figure 2). Two distinct mineralised zone geometries are mined: the mantos (a blanket-like body formed along a bedding plane) and chimney-type deposits (formed along intersecting geologic structures) (Figure 3). Initial stoping operations occurred in chimney-type deposits above a shale layer. The broken ore (containing gold and silver) was hoisted to surface, loaded on carts drawn by mules to be transported to Lago de Yojoa (Lake Yojoa), loaded onto boats for transport across the lake, and then transported to the mills to be processed.

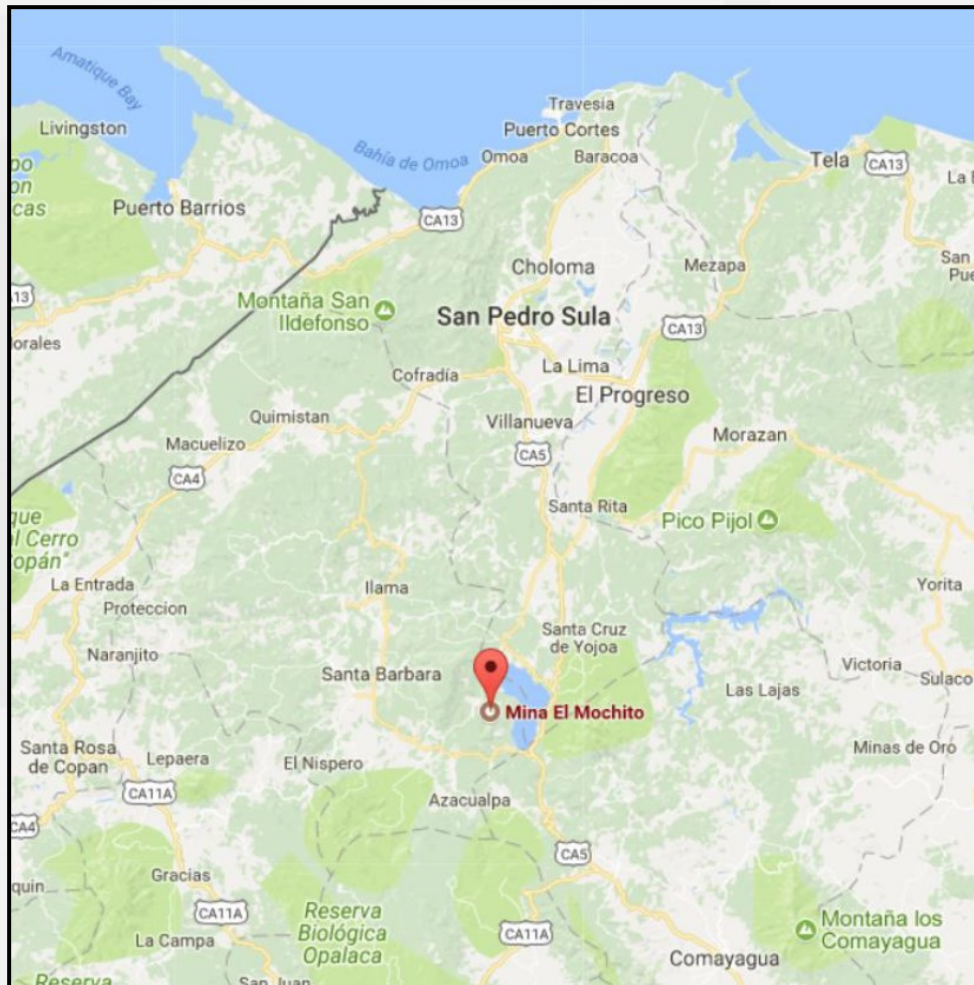


Figure 2: Location of El Mochito Mine in relation to San Pedro Sula

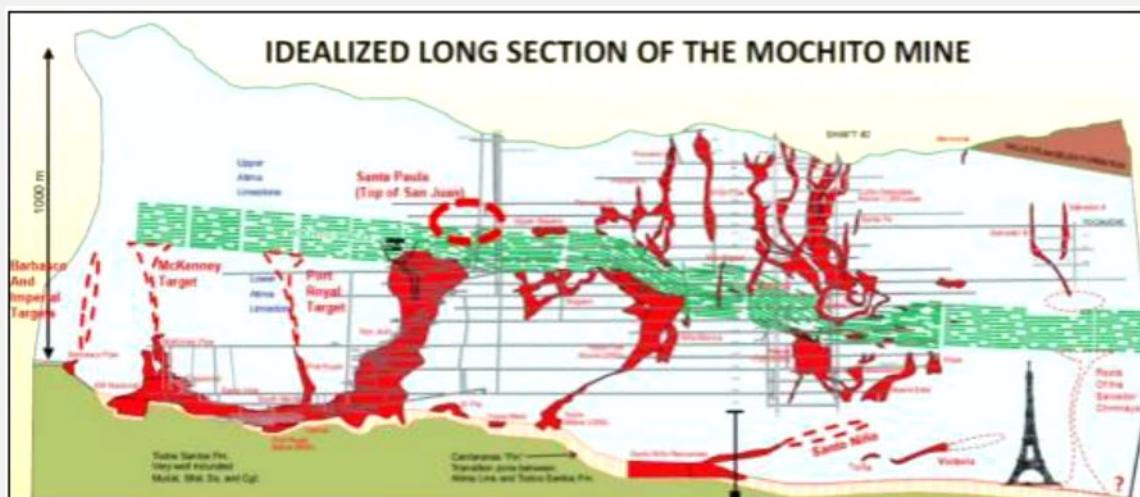


Figure 3: Mineralised zone geometry

Production commenced in 1948 (Figure 4), with zinc and silver being the target minerals. Post-pillar cut-and-fill mining was conducted with jacklegs in the chimney deposits, but with the presence of the mantos not being known at the time.



Figure 4: Entrance to El Mochito Mine

Since 1948, the mine has had four different owners, although not all of them have had the available capital to conduct additional exploration. A structural geology study was conducted (by SRK) in 1995, and with the better understanding of the deposit, an extensive targeted exploration programme is currently underway by the new mine owners (having purchased the property in 2016).

The travelling way/drift, from the mine entrance to the station where workers are transported to the deeper working levels via manège, is approximately 200 m long. The manèges are double-deck, with a maximum capacity of 8 persons per deck (Figure 5).

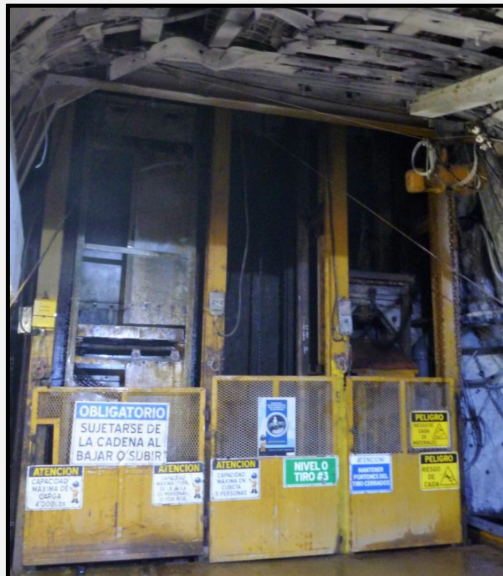


Figure 5: Underground station (manège to the left and skips to the right)

Current mining methods include longhole open stoping (chimney-type deposits) and post-pillar cut-and-fill (mantos deposit).

The Bay Islands

The Bay Islands are an approximately 45-minute flight (in a twin-engined aircraft) from San Pedro Sula. Being in the Caribbean Sea, the water is warm (approximately 21°C when I was there) and clear (Figure 6).



Figure 6: Photograph indicating the clear, blue water around Roatan Island

My experience of Roatan Island was surreal – the water was very salty, making it difficult to stay underwater, yet it was possible to swim with my eyes open without them stinging. The beaches are fine white sand and stretch for kilometres. Seafood is abundant and cheap (Figure 7).



Figure 7: USD50 for this meal for two, including a bottle of wine – absolutely amazing

Accommodation in a 4-star holiday resort was approximately USD75 per room, per night (breakfast included); unfortunately, I only had the luxury of having three days on the island, before having to return to work in Zambia (I could easily have stayed there for a couple of weeks).

I took a 3-hour long snorkelling trip (USD25) along the barrier reef. I snorkelled in three different dive locations; it was like swimming in a marine aquarium (the colours of the reef fish were spectacular). Although there are Caribbean Reef sharks along some of the more popular scuba diving locations of the island, there have apparently not been any shark attacks on humans. Fortunately, I did not see any sharks, otherwise I'd have transitioned from snorkelling to running on top of the water.

For those South Africa-based persons who might be interested in visiting this stunning part of the planet, here is an indication of the cost of flights and groceries (as a comparison to what you pay in South Africa), Figure 8.

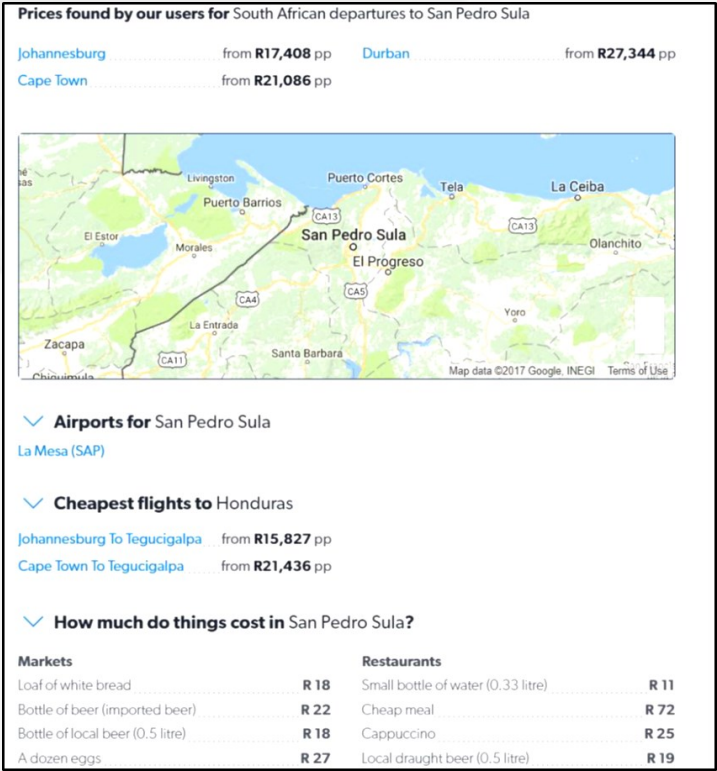


Figure 8: Cost of travel and groceries in Rand terms

The trip, both to the mine site and as a tourist to the Bay Islands, is definitely one of my favourite ‘adventures’ that I have been fortunate enough to have undertaken.

Safe travels!



Personality of the Quarter



Full Name: Jeanne Walls

Position: Director; Principal Geotechnical Consultant

Company/ Organisations: Jewal Consulting (Pty) Ltd

Date and Place of Birth: 24 March 1976, Greytown, KZN

Education: MEng (Rock Eng.), GDE (Mining), CoMAREC, BSc (Hons) Geophysics

First Job: Exploration geophysicist (first job in mining)

Personal Best Achievement/s: Discovering after nearly 20 years that I have achieved a meaningful career, accomplished my own financial independence, established my own business, and developed valuable relationships amongst my peers, superiors, and young up-and-comings within the industry.

Philosophy of Life: Every one of us walks a different path. The world is bigger than we are as individuals, but we are each of us uniquely relevant. Most of us deserve a second chance, most of us deserve some considered understanding, and there is always beauty and redemption somewhere, if we're brave enough to know it.

Favourite Food/Drink: A fine whiskey

Favourite Sport: Mountain Biking

How did your career in the mining industry begin and where are you now?

It began when I was a little girl, reading the books on plate tectonics and geological process that my grandmother plied me with (those that know me will be unsurprised to discover that I had a somewhat unconventional childhood).

Why did you choose Rock Engineering?

To get away from geology (sorry, Ouma, met liefde!). Turns out, Rock Engineering wasn't such a radical departure, though!

Please tell us a bit more about your career journey?

With a few twists and turns and a bursary from Gold Fields, I was committed to a career defined by studying geology. Which I ran away from, as soon as I could, and switched to geophysics, for which I had to abandon the paradise of Stellenbosch University, and completed the programme at Wits university. This was still, sadly, not far enough away, so I dabbled in a few directions, finally ran all the way to Taiwan to teach English, which lasted a few months, and promptly found myself back in South Africa, wondering what the hell to do with a degree in a field that I felt had never been my own choice to start with, but was definitely more likely to bring in more money than teaching and enable me to live a reasonably self-sufficient life.

So, I accepted a job in exploration geophysics. And the rest, as one might say, is history. Exploration geophysics led me to mine seismology in Welkom, which drove me to Rock Engineering with Anglo Platinum where my real development and ground-work in Rock Engineering practice was laid. After being appointed for a year as a Chief Rock Engineer, I applied to work at SRK Consulting where I was able to grow as a consulting Rock Engineer. All of this background enabled me to be where I am now, operating as my own boss and providing Rock Engineering services to the mining industry in South Africa, and internationally.

In a nutshell, the greatest and most humbling lesson that I can take away is this: while we are mostly encouraged to “chase our passions”, “be whatever we want to be”, the reality is that even for the most privileged like myself, sometimes that's not really the case. And we must learn to love, shape, embrace, and develop our careers, the work that we do, the income we draw, and the people that we work with. Much, if not most, of it, is driven not so much by choice (even though the idea of “choice” is a romantic idea), but by how we work with, and within, the constraints that we are given. I would have loved to do something different, but this is what I do. And I think I'm reasonably good at it, which speaks to my talents and skills, and so I get satisfaction from it. And it earns me a decent living. And these are good things, albeit not perfect. Learning to live with the imperfect – a very tough call for us as Engineers!

What are some areas that you believe will become of increasing importance in the near future of the Rock Engineering discipline?

I would like to split this into people skills and technical skills. In South Africa, people skills comprise an understatement. This includes not only developing and shaping a critical skills pool through transfer of knowledge, effective mentoring and communication, but the same can be said for the service we provide to the mining crews, production teams, management, labour, and legal (government) authorities. And for the technical component, the quantity and scope of data that we must process and integrate into practical solutions can more and more become unwieldy and increasingly abstract. Data management solutions comprise, in my opinion, a key and critical focus area. It's tempting to want to “reinvent the wheel”, or to coin the currently fashionable term “innovate” (just a new way of saying “invent”), but real innovation seems to me to be more a product of understanding and meaningful problem-solving than merely to “develop something new” for the sake of it. If we apply what we know to new problems, the outcome is automatically an innovation. And since what we know seems to be coupled to an exponentially growing body of data (information), we must first understand how to process and apply the data. Then the innovation will follow as an outcome.

What advice would you offer people aspiring to be in your position?

Firstly, I'm rather flattered to be considered to hold a position that anyone would wish to aspire to. Thank you. Perhaps, looking at my own way of doing things, I could suggest a few things:

- Cherish the relationships that you've built and don't be afraid to apologise later.
- Speak your mind but remember that it comes at a price. Own what you say, believe in yourself, and stand by what you say. Remember that you know yourself best, better than anyone else. Trust your instincts.
- BUT, if (when) you mess it up (because you will), be humble. If it's a personal mess up, mend your fences, build your bridges and carry on. If it's a technical mess up, accept it, ask for advice, own it and accept someone else's superior knowledge. Never be too proud to ask, or concede. And never be too humble to defend your point.
- And lastly, apply what you've learnt, and never stop learning new things, or doing things you've never done before. It's how you grow.
- And after that, cherish your own personal objectives. Whatever else you do, you're working for your personal gain. Invest in yourself.

Who is your role model / mentor?

It's difficult to single out any particular individual, so I'm not going to. Many peers, superiors and personal acquaintances have, and continue to, develop, shape and inspire me. In Rock Engineering, there have been a few key persons who have played an important role in helping with my development and I won't mention them here (they know who they are). I've tried to steer away from the perspective of being a woman in the industry, but it's meaningless to try to deny the effect that the greatest vacuum for me has been the absence of a senior woman role model in this field. This means that the network of women currently in the field constitutes some of the most supportive women whom I've known, even though we're far-flung, and few in between.

What is the best advice you have ever been given?

What you put in is what you get out. Learn to work with what you can control or influence, and don't try to control the rest. And to quote Margaret Thatcher, "You may have to fight a battle more than once to win it."

John Napier Elected by the National Academy of Engineering as One of the New Foreign Members



WASHINGTON — The National Academy of Engineering (NAE) has elected 83 new members and 16 foreign members, announced NAE President C. D. (Dan) Mote, Jr., today. This brings the total U.S. membership to 2,293 and the number of foreign members to 262.

Election to the National Academy of Engineering is among the highest professional distinctions accorded to an engineer. Academy membership honors those who have made outstanding contributions to "engineering research, practice, or education, including, where appropriate, significant contributions to the engineering literature" and to "the pioneering of new and developing fields of technology, making major advancements in traditional fields of engineering, or developing/implementing innovative approaches to engineering education."

Individuals in the newly elected class will be formally inducted during a ceremony at the NAE's annual meeting in Washington, D.C., on Sept. 30, 2018. A list of the newly elected members and foreign members follows, with their primary affiliations at the time of election and a brief statement of their principal engineering accomplishments.

Napier, John A.L., extraordinary professor, department of mining engineering, University of Pretoria, Hatfield, Pretoria, South Africa. For contributions to computational simulation of rock fracture around underground excavations.

SANIRE Birthdays

February to May

J L Campbell	A G Hartzenberg	D M Raby
A A Steyn	M.A. Pieterse	W J Snyman
H J van Rooyen	P.H. Henning	R I Ferreira
J P Rangwaga	M Chatfield	J M Oelofse
G B Breckle	L G Tshehla	K.D. Mamosebo
T Dlokweni	G vd Westhuizen	W Hartman
C Mkandawire	S. ZUMA	A H Olivier
A S Makgala	B.J. BOTHA	PG Carville
P E Sepato	L.V. VERNOOY	P Paige-Green
FM Motebang	A. MABELANE	W. Holtzhauzen
W Zirima	ROSS V. HEERDEN	M R C Kevane
J N Dodds	P. GHASEMZADEH DAGHIGH	M Ridgway
D Bierman	SM Lloyd	D Louw
T N Nortje	SK Mosotho	FRP Pienaar
P G Groenewald	K Moodley	KPA van Tonder
R L Kemp	G L M Sims	G Mc Gavigan
R Muller	S V Mohlala	AI Valenta
P D Witbooi	S Mazara	M Bester
W J Marx	G E Kgosiemang	D Lees
J Bezuidenhout	C Muthelo	C A Jermy
J J Grobler	NA Khosa	P K D Hornsby
N Malitino	B Tshelane	Ms J Walls
T van Aard	E Matlakala	D van Rooyen
Ms N (Conley) Ayres	Oelofse MN	Y Jooste
P Mpunzi	S. S. Prinsloo	T T Itholeng
R O Phadagi	CM Kazadi	A P Esterhuizen
C Nyoni	EM Ziluga	W L Mahne
L M Gezimati	H Rasethe	B N Scott
I Crozier	J Kwiri	J O J Roussel
Ms S Coetsee	N Mthembi	M W Pretorius (Marthinus Wessels)
EF Gouws	F Fredericks	H T Chiwaye
N Killassy	I Breedt	J J van der Merwe
V de Lange	E van Dijk	C W van der Westhuizen
J Els	L Matlhare	M Z Mazibuko
R J M Sebitloane	R Phiri	P M Couto
T Munzhelele (Gcuda)	D Swanepoel	S Z Pheto
A J van Zyl	Q Kebatsetse	H. Jordaan
M M Sibiya	D C Oldroyd	F Chiramba
E Pillay	H A D Kirsten	MG Barnard
M Steinmann	J V James	S T Habile
Q L Grix	A A Brown	M Wiggins
Ms A Boodoo	D Neal	Y Rajpal
M H Ngwenya	P J le Roux	J John
P F Janse van Rensburg	H Urcan	J C van Zyl
Ms L L Ditlopo	Kenneth Mathibela	T Zvarivadza
N Mandhaze	J W Hanekom	TM Moaise
Ms M A Mbongonya	D J Postma	A van Schalkwyk
A D Ngosa	E J Sellers	S M Spottiswoode
P J van Wyk	B O'Hearn	D Spencer
B M Kioya	Prof M Handley	R W D Kersten
A J Wright	M L Treloar	C L de Jongh
D M Kubayi	J Lucas	M D Salamon
K. Maketa	M J Cockram	TO Hagan

Advertising

The **SANIRE** Committee has decided to increase the advertising opportunities for suppliers who would like to market their business and products in the Rock Talk.

The table below indicates the prices for different size advertisements as well as bookings for the future.

Please contact **Alida Hartzenberg** for more details

Alida.hartzenberg@lonmin.com

Type of advert	Rates (Excl. VAT) Solus, Casual	Availability per newsletter	Mar-18	Jun-18	Sep-18	Dec-18
Square (Not front page)	R 1 000	4	1 Booked	1 Booked	1 Booked	1 Booked
Skyscraper (Front page)	R 4 000	1		Booked		
Full page (Middle)	R 8 000	2	1 Booked	1 Booked		

New Members December 2017 to March 2018

TITLE	NAME	SURNAME	GRADED AS	ISSUED NUMBER
	FELLOWS			
Mr	Trevor	Rangasamy	Fellow	F044
	REGRADINGS TO MEMBER			
Mr	Marius	Pretorius	Member	M288
Mr	Craig	Smith	Member	M289
Mr	Buntu	Tati	Member	M290
Mr	Petrus	Spies	Member	M291




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SANIRE

SOUTH AFRICAN NATIONAL INSTITUTE OF ROCK ENGINEERING

Vision:

To actively promote the South African Rock Engineering profession

Mission:

SANIRE promotes the advancement of the Rock Engineering discipline by encouraging and promoting:

Interest and the development of education in Rock Engineering

Professional practice and high ethical standards

Networking, collaboration and information exchange

Research areas

Values:

- Honesty
- Integrity
- Professionalism
- Accountability
- Transparency

Contact Information:

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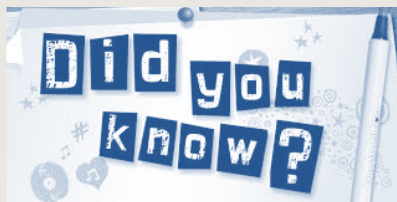
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info@sanire.co.za

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C/O Stilfontein Road & Umgeni
Stilfontein, Stilfontein, 2551, South Africa

www.sanire.co.za



SANGORM (South African National Group on Rock Mechanics) was formally constituted in 1969 with 6 members.

SANGORM was changed to SANIRE (South African National Institute of Rock Engineering) in July 1999.

The first president was Professor Nielen van der Merwe.

Editor's Corner

This is your newsletter and I would like to hear from you.

If you have any information or stories that we can use, please submit them via email to

alida.hartzenberg@lonmin.com

Your feedback will be highly appreciated.