

THE SUMMIT NEWSLETTER

A CESA YOUNG PROFESSIONAL'S PUBLICATION

Volume 4, Issue 1
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MESSAGE FROM THE CHAIR



Welcome to the New year. Looking back at the amount of activities Consulting Engineers South Africa (CESA)'s Young Professionals Forum (YPF) undertook through the various branches in 2018, I can only applaud the dedicated national and regional committee members who have ensured the successful execution of the past year's events. In 2019 I hope we can continue to encourage Young Professionals (YPs) to participate and actively

engage in proposed events. We already have a calendar filled with exciting activities. Look out for the CESA Youth Best Practice Seminar Series set to take place in Cape Town, Durban and Johannesburg.

In continuing to fulfil our objectives, we hope we can encourage more learners to join the engineering sector as recently qualified matriculants register at various institutions of higher education. We also look forward to the Annual Job Shadow Initiative and the Matric Revision workshops coming up soon.

I would like to take this opportunity to thank all our Sponsors, without your support over the years we would not have accomplished so many of our targets.

Wishing you all the best and success for 2019!

Amanda Masondo-Mkhize

CESA YPF National Chairperson, Mott MacDonald

EDITOR'S NOTE

HAPPY NEW YEAR!!!! And welcome to 20 – nice things (that's the catch phrase for 2019 in case you got lost in all the province reshufflings and December shenanigans). It's a new year filled with over 300 opportunities for one to achieve both unfulfilled 2018 and new goals, whether it be professionally or personally (or maybe both spheres).

Speaking of goals, we as CESA YPF strive to provide YPs with a platform where we can address issues that affect us as future industry leaders. We also strive to encourage and support each other (sometimes one needs to know they are not alone and there is a way to overcome hurdles) but also to share ideas, inspire each other and keep the passion alive for the Engineering and Built Environment profession.

One of the ways we aim to achieve our mandate is through our newsletter, The Summit. This is a publication for YPs by YPs. Through this newsletter, we hope to inspire a new wave of dynamic YPs to volunteer their time and get involved to be the change they want to see thus allowing the movement that is Young Professionals to 'Summit' to new heights!!

If you would like to contribute an opinion piece on any 'Burning Issue' you might have, please feel free to contact me on the following email address for more information or to submit your article: ybanda@amce.co.za.

We hope you will enjoy seeing what other YPs in the various provinces are busy with and get motivated to get involved in your own companies.

Yankho Banda - CESA YPF National Vice Chairperson and Editor, A-M Consulting Engineers

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LEARNINGS FROM THE FIDIC BERLIN 2018 CONFERENCE

<http://www.cesa.co.za/ypf>

By: Ms. Shamiso Khumbirai, CESA Young Engineer of the Year 2018, Aurecon

As part of being announced as the Young Engineer of the Year at the CESA Aon Engineering Excellence Awards in August 2018, Airports Company South Africa (ACSA) sponsored the opportunity to attend the 2018 FIDIC International Infrastructure Conference. The conference was held in Berlin from the 9-11th of September 2018 with the theme centering around '*Mobility & Smart Infrastructure*'. Speakers from diverse backgrounds such as finance, economics, consulting engineering and government were invited to share their insights and expertise with those in attendance. In addition to discussions on mobility and smart infrastructure, several other themes emerged from panelists and speakers.

Day 1 : 9TH September 2018

The day began with the FIDIC Best Business Practice Forum where specialised committees discussed FIDIC tools and services available to members and to the industry. The rest of the day was largely devoted towards showcasing and promoting the role of Young Professionals within the FIDIC community. The FIDIC Young Professionals Symposium centred around discussions on the future of consulting engineering with topics such as *women in engineering, lean construction and the use of technology in smart cities* being covered. FIDIC CEO, Dr Nelson Ogunshakin went as far as to state that the future of consulting engineering was up to emerging professionals and that it is critical for the FIDIC body to engage closely with the YPF.

The day ended off with presentations given by 35 participants who attended the Young Professionals Management Training Programme. The programme consists of two components: an intensive 7-month virtual learning course followed by a week of in-person working sessions and attendance at the annual conference. To conclude the programme, the teams were given the task of collaborating and presenting an innovation they felt could strengthen the global network of consulting engineers. The solution they presented was an online global knowledge platform to unite the vast knowledge and experience of FIDIC members across the world. The innovation was well received by the audience with FIDIC's leadership promising to support the development of the idea further.



2018 FIDIC Young Professionals Management Training Programme Graduates

LEARNINGS FROM THE FIDIC BERLIN 2018 CONFERENCE Cont.

<http://www.cesa.co.za/ypf>

By: Ms. Shamiso Khumbirai, CESA Young Engineer of the Year 2018, Aurecon

Day 2: 10th September 2018

This day signaled the start of the official programme. A keynote address was given by Dr Gernot Strube, a Senior Partner at McKinsey and Company who spoke about trends that will shape the future of the construction sector. The construction sector is one of worlds' largest sectors worth an estimated \$10 trillion, however, productivity in the sector has witnessed little increase in past decades. Strube shared seven (7) key areas identified in studies by McKinsey that could see an improvement in sector productivity by 50-60%, enough to meet half the worlds infrastructure needs by placing emphasis on front-loading projects.

Another one of the areas mentioned and reiterated throughout the conference proceedings was what the value of increasing the use of technology across digital tools, materials and advanced automation can play towards increased productivity. However, despite the technological advancements that have been made in the industry, digitization in this sector is markedly low in comparison to other sectors and sees lower revenue investment into IT. He stressed that while the technology is available and is used in pockets of excellence, these technologies need to be embraced across geographies and adopted to aid in collaboration within the sector.

This year marked a first as the FIDIC conference also made use of live digital platforms to engage the audience. An interactive poll was conducted amongst the audience to determine the highest level of digital project setup they had collaborated on before. Another highlight was a session titled '*Perspectives from the Boardroom*', which was a discussion with five (5) CEOs of Consulting Engineering firms and C-suite specialists on the Future for the Consulting Business in the digital economy. The discussion centred around the impact of technology on projects and delivery, the changing skillset required to meet the changing landscape and the potential enterprise risk involved in our increasingly technology driven environment.

Day 3: 11th September 2018

The conference wrapped up with discussions on urban development, smart infrastructure and mobility. Mobility and smart infrastructure is a major concern in the world of today. With population growth and urbanisation, it will only grow in importance in the world of tomorrow. Throughout the conference smart mobility was spoken about from a largely Eurocentric view, however, CESA's immediate past president, Lynne Pretorius stressed the fact that in most emerging economies we cannot push technology at the expense of employment creation. For African cities, we need to think of smart as getting the basics right and identify opportunities for technology to work for us.

So how do African cities respond to the challenges of innovation and disruption in public transport provision? Considering Africa's transport and urban realities being that we are urbanising later and at a lower income level than any other developing region, this can be seen to be a huge opportunity because it allows for policy makers to learn from successes and failures from other developing countries. African commuters rely heavily on informal transport services, such as minibus taxis, as their main mode of transport instead of the more formal modes of transport, such as formal bus systems. Bus Rapid Transit (BRT) systems have been implemented in several African cities. In South Africa we have seen the introduction of BRT in Johannesburg, Cape Town, George and, most recently, Port Elizabeth. However, the infrastructure costs make the system difficult to sustain. To respond to this, Lynne suggested we adopt a "Back to Basics Approach" as shown in **Figure 1** below.

LEARNINGS FROM THE FIDIC BERLIN 2018 CONFERENCE Cont.

<http://www.cesa.co.za/ypf>

By: Ms. Shamiso Khumbirai, CESA Young Engineer of the Year 2018, Aurecon

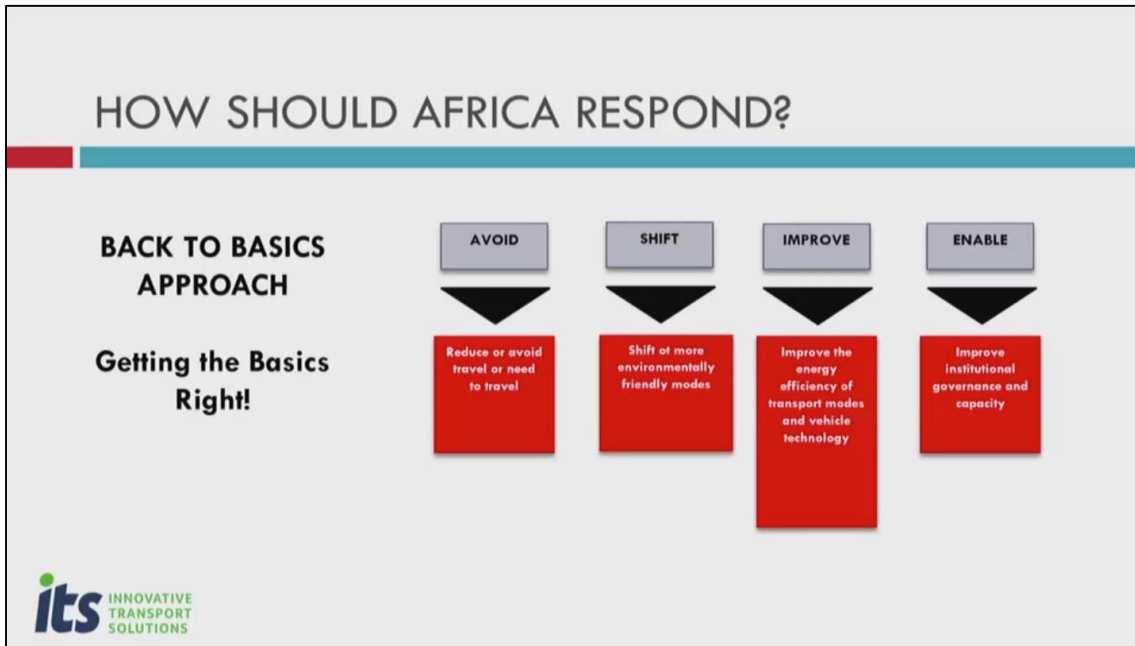


Figure 1: Back to basics transport approach (Source: Innovative Transport Solutions)

At the heart of this is the focus on improving the informal public transport sector by developing incentives to organise informal operators, improving communication streams between operators and customers using cell phones.

In-between all the sessions, a lot of networking was done, with delegates from a multitude of countries in attendance there was much to learn and share! The conference also arranged several sight-seeing activities and dinner functions for delegates to get a feel of Berlin over a few glasses of local beer – when in Berlin, right! These excursions and networking opportunities afforded us all the opportunity to engage with one another in a more relaxed environment and form personal and business relationships that will hopefully last well into the future. A huge thank you to ACSA and CESA for affording me the opportunity to learn and gain insight to the industry at a global level – the experience has been truly invaluable.



Sight seeing in Berlin



FIDIC Gala Dinner

BRANCH ACTIVITIES

Eastern Cape - Border Kei

EVENTS

The branch kicked off 2018 with a **State of the Branch Address (SOBA)** held on the 15th March 2018 at Bosch Projects Consulting Engineers at their East London (EL) offices. The SOBA is the branches' form of meeting with current members and recruiting potential members to join the committee. The SOBA is also used as a platform for the branch to discuss various issues including:

- Branch performance in the previous year,
- Changes in committee structure,
- Planned events for the year and
- Finances.



SOBA in full swing

Keeping the momentum from the SOBA, the branch was honoured with the presence of CESA President, Neresh Pather on the 17th May 2018 during one of his countrywide **Presidential Visits**.

During the visit to the branch, Mr Pather outlined the theme and strategic intent as well as the role we need to play towards ensuring CESA achieved these outcomes. This was followed by a **Financial Management and Wealth Creation** seminar held in partnership with South African Institute of Civil Engineers (SAICE) Young Members (YM) on the 31st May 2018. The purpose of the seminar was to educate Young Professionals (YPs) on the various methods available to manage ones finances today for the future.

The branch also gave back to the community by visiting **Bazindlovu Senior Secondary School in Mqanduli, Eastern Cape**. This was the first of 4 school visits planned for the year 2018 whereby the branch aimed to promote engineering as a profession of choice and also to encourage the learners to adopt Mathematics and Science as vital subjects thus affording them that option.



Financial Seminar



Bazindlovu Senior Secondary School visit



The branch also hosted the following events during 2018:

Event	Date
Walter Sisulu University Tertiary Visit	August 2018
School of Consulting Engineers Provincial Tour	September 2018

BRANCH ACTIVITIES

Gauteng North

EVENTS

Things had been a bit quiet in Gauteng North but all that changed when a new committee was voted in at the first **Annual General Meeting (AGM)** held on the 28th March 2018 at the Aurecon Offices in Lynnwood. The new committee hit the ground running, holding its first meeting on the 10th April 2018 to start planning activities that would entice and revive the YPs in the region.



Gauteng North 2018-2019 Committee

Below is a list of new and exciting activities that the branch held during the remainder of 2018 :

Event	Date
Future Leaders' 2018 Career Expo: Promoting Engineering amongst High School Learners	July 2018
Panel Discussion: Transform Yourself	August 2018
Big Energy Debate: Perspective of Young Professionals (Collaboration with University of Pretoria)	September 2018
2018 Gauteng Young Professionals Day	November 2018

Kwa-Zulu Natal

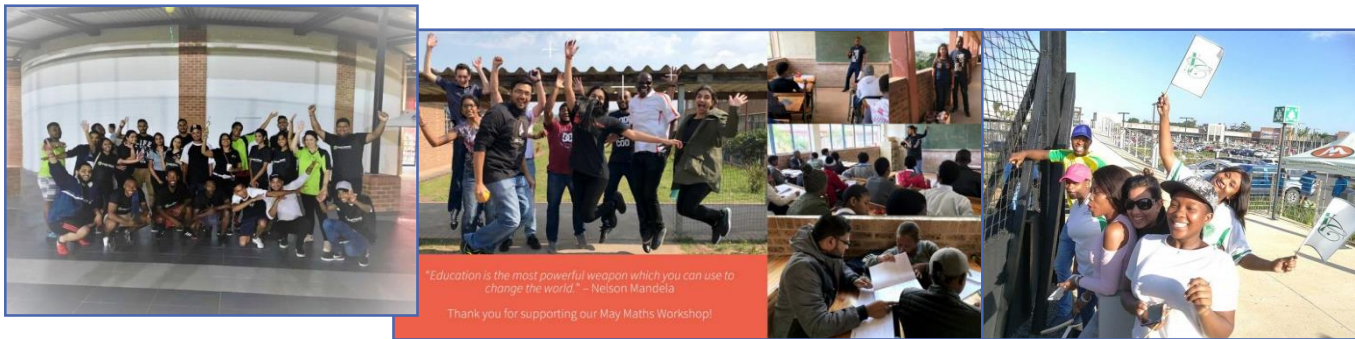
EVENTS

As one of the busiest and most active branches, remaining true to form, the KZN branch began the year with a **Committee Kickoff Meeting** on the 24th January 2018 not only to plan for their first event but to also outline and plan for events to be held during the course of the year. The first event held on the 10th March at Margot Fonteyn High School, was the **Young Einstein's Maths Workshop Session 1** which firstly aims to lend support to teachers at the school by providing a few extra lessons and tutoring to the Grade 11 learners in the subject of Mathematics. This helps in giving the learners a clearer insight into why numeracy as well as quantitative and statistical understanding is so important. Secondly, the workshop aims to market the Engineering Profession and outline the role engineers play in society. **Session 2 of the Workshop** was held on the 12th May 2018. Three further sessions were undertaken for the remainder of the year 2018. The committee hopes to expand this initiative and host the first ever Maths Workshop Session in Pietermaritzburg (PMB) soon.

BRANCH ACTIVITIES

Kwa-Zulu Natal cont.

This was followed by the **Annual CESA Soccer Tournament** on the 13th April 2018 which has grown in popularity over the past five (5) years, increasing from eight (8) participating member firms to 21 participating member firms resulting in players and supporters being in excess of 300! And for the first time ever, there was a women's tournament. The event was hosted for the first time at the new Action Soccer Venue at the New Cornubia Mall, in Mount Edgecombe. It was an action packed day with 72 games played in total and a thrilling final being contested between Naidu Consulting and RHDHV. Congratulations to RHDHV, who were the ultimate winners thus obtaining the bragging rights for 2018 / 2019. The event as always was well supported, well attended and thoroughly enjoyed by all.



"Education is the most powerful weapon which you can use to change the world." - Nelson Mandela
Thank you for supporting our May Maths Workshop!

Soccer Tournament teams

Tutoring of future Young Einstein's

Soccer Tournament supporters

Sometimes, we engineers also like to relax, laugh, network and unwind whilst testing our general knowledge in a stress-free and 'non-competitive' environment. The KZN YPs got this wish on the 26th June 2018, when the inter-company **quiz night** was hosted at the Royal Haskoning DHV offices in Umhlanga. The quiz was split into five (5) categories of questions viz. Sport, Nature, Culture (Including Film, Literature, Music and Art), History and General Knowledge and lets just say many interesting facts were learnt on the night. At the end it was SMEC who were victorious, with Arup taking the runner-up prize. Overall, the atmosphere was great and informative, with light hearted banter and healthy competitive spirit.

With a jam packed first half of the year, the branch kept to their promise to keep the momentum going in the second half with the following activities hosted for the remainder of 2018:



Quiz Night contestant and Quiz master, Mr Graham Burrows

Event	Date
CESA Presidential Visit, Mandela Day Initiative, Annual CESA Relay	July 2018
Women in Engineering event, Young Einstein Maths Workshop Session 3, Technical Talk 01, ECSA Registration Workshop	August 2018
Young Einstein Maths Workshop PMB Kickoff Session 1, Technical Talk 02	September 2018
Industry Site Visit, Young Einstein Maths Workshop Session 4	October 2018
Young Einstein Maths Workshop Session 5, Year-end Bowling Network	November 2018

BRANCH ACTIVITIES

Gauteng South

EVENTS

Having being one of the first branches to hold formal elections of office bearers, the CESA Gauteng South (GS) YPF held its 3rd **Annual General Meeting (AGM)** on the 15th February 2018 at Zitholele Consulting offices in Midrand. The AGM was necessary as the committee had vacant positions due to members having served their allowable terms. The AGM was well attended with 22 Young Professionals present and voting totalling 37 including proxies from members from various consulting companies interested in serving.

This was followed by the **Meet and Greet (M&G)** event held on 13th March 2018 at Knight Piésold Consulting offices in Rivonia. The objective of the M&G is to provide a networking platform where YPs get the opportunity to interact and mingle in a relaxed environment with each other and also to become more aware of the CESA GS YPF annual activities. Two dynamic speakers, Vishal Haripersad, Managing Director of Knight Piésold Consulting and Erik Kruger founder and CEO of BetterMan were roped in to impart wisdom and knowledge as well as motivate those in attendance to take control of their careers and ensure they achieve their goals. The evening ended with a session where YP's were afforded the opportunity to network with Vishal and the President of CESA, Neresh Pather.



Meet and Greet



On the 5th July 2018, YP's gathered for the **Annual Zitholele Great Debate**. This year it was the Young Professionals (YPs) against the Old Professionals (OPs) under the theme 'Make the Circle Bigger'. The esteemed OP team consisted of Dr. Pine Pienaar (CEO of Nyeleti), Vishal Haripersad (Managing Director of Knight Piésold) and Gustav Weich (Regional Director at Aurecon). The YP team consisted of Pierre Venter (SMEC), Prinaven Gounden (Knight Piésold) and Givarn Singh (Golder Associates).

A coin toss decided the stance of the teams and it was the YPs who had to argue for cartels and the OPs argued against it. The topic led to thought provoking discussions and this year judging was done by the entire audience. An online interactive method of voting was used to determine the winner and it was the OPs who won the audience over. After the prize giving, YP's were able to interact with each other and the respected members of the winning team.

2018 was the year the committee decided to bring more empowerment activities for the YPs in the GS region just to balance the fun and flex the diversity of the committee, showing they are not only about fun and games. These were the activities held for the remainder of 2018:

Event	Date
4 th Annual UWP Quiz Night	September 2018
Road to Professional Registration (Aurecon Collaboration Event)	October 2018

BRANCH ACTIVITIES

Western Cape

EVENTS

With the sun setting after 20:00 in summer in Cape Town, what better way to enjoy the beautiful scenery than to play **Beach Volleyball!!!** This is what the branch decided to do on the 22nd February 2018. Even though limited to 4 volleyball nets, a whopping 16 teams signed up to do battle on the sand. Competition between the teams was stiff (even though some seemed to have come to do battle with the sand) but like any tournament, there could only be one winner. The event was a huge success, thoroughly enjoyed by both the players and spectators and congratulations to KFD Wilkinson for being the overall winners.



Beach Volleyball Participants doing their thing



Nail-biting moment on the pitch during Soccer Tournament

In previous years, the **5-a-side soccer tournament** was held around August/September however it was discovered that companies did not enter as this was during the soccer league season. Therefore, the branch decided to schedule this year's soccer tournament for 13th April 2018, during the pre-season of the outdoor soccer league. All in all the event was successful with a total of 12 teams participating with Kantey & TEMPLER emerging the overall winner.

Arguably one of our most popular events, the **Quiz Night** was eagerly anticipated which was evident by the entries received long before the 6th June 2018, which was the day chosen for entrants to have fun and share some laughter whilst testing their knowledge on various topics ranging from sport to music and general knowledge. As expected, the event was well attended and for the first time, various universities were invited to send a team to participate. The Quiz masters (winners) for the night were Bvi Consulting.



Winners: Bvi Consulting



Quiz Night participants

The branch kept up with the action packed pace of the first half by hosting the following activities for the remainder of 2018:

Event	Date
Ten – Pin Bowling	August 2018
Dodgeball	September 2018
Investment Talk	October 2018
Potjie Competition	November 2018

EVENTS CALENDER

CESA AND CESA YPF 2019 EVENTS:

January	February	March
<p>30 Presidential Media Breakfast</p> <p>31 Gauteng CESA Youth Best Practice Seminar (#YPLLeadershipSeminar)</p>	<p>13 Gauteng North and South Presidential Visit</p> <p>28 Western Cape Presidential Visit</p>	<p>5 KZN #YPLLeadershipSeminar</p> <p>6 - 7 Infrastructure Indaba</p> <p>12 Eastern Cape – Port Elizabeth Presidential Visit</p> <p>12 #YPLLeadershipSeminar</p>
April	May	June
<p>11 North West CESA YP Volunteerism Legotla (#YPLekgotla)</p> <p>11 North West Presidential Visit</p> <p>16 Mpumalanga #YPLekgotla</p> <p>30 Mpumalanga Presidential Visit</p>	<p>1 – 31 CESA Job Shadow Initiative</p> <p>9 Limpopo #YPLekgotla</p> <p>16 Free State #YPLekgotla</p> <p>21 Limpopo Presidential Visit</p> <p>29 Free State Presidential Visit</p>	<p>1 – 30 CESA Job Shadow Initiative</p> <p>13 Kwa-Zulu Natal Presidential Visit</p> <p>13 Kwa-Zulu Natal, Gauteng & WC #YPLLeadershipSeminar</p> <p>13 Southern Cape #YPLekgotla</p> <p>26 Northern Cape Presidential Visit</p>
July	August	September
<p>1 – 31 CESA Job Shadow Initiative</p> <p>3 Eastern Cape – Border Kei Presidential Visit</p> <p>10 Southern Cape #YPLekgotla</p> <p>17 Southern Cape Presidential Visit</p>	<p>13 - 14 YP Sustainability Imbizo</p> <p>14 CESA AON Engineering Excellence Awards</p>	<p>21 CESA Relay Gauteng</p>
October	November	December
<p>10 Presidential Golf Challenge</p>	<p>14 CESA AGM</p>	<p>Vacation period</p> <p>Relaxation Time...goodbye 2019!!</p>

SOCIAL MEDIA LANE:



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Talk to us

If you would like to contribute an opinion piece article on any 'Burning Issue' you might have, please contact the editor on the following email address for more information or to submit your article:

ybanda@amce.co.za

Save the Date!!



CESA will host its annual Infrastructure Indaba from 6-7 March 2019 at the ICC in Durban.

The two-day session brings together leading experts including government officials, consulting engineers and built environment professionals for the purpose of improved delivery and management of public infrastructure.

The event aims to foster partnerships between government and the private sector, particularly the engineering sector, and capacitate the channels of service delivery through cooperation and the development of common goals.

The CESA Indaba 2019 will be a platform to engage, network and share best practice required for improved service delivery within the built environment.

The 2019 CESA Infrastructure Indaba (#CESAIndaba) has been validated for 2 ECSA CPD credits.

ADVERTISING

16

26th Annual FIDIC-GAMA 2019 Conference, Kampala,
Uganda

<http://www.cesa.co.za/ypf>



**“The Role of Consulting Engineers in Driving
Growth in African Economies”**

12th – 15th May 2019

Kampala Serena Hotel

Save the Date!