

SAIIE

Southern African Institute for
Industrial Engineering

News

Volume 11 – December 2018

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SAIIE & SAIIE Student News

Henry David Thoreau said: "Success usually comes to those who are too busy to be looking for it."

Although 2018 started off with the very sad news of the untimely loss of one of SAIIE Council's Past Presidents, Dr Henk van Tonder, we can still look back at 2018 as quite a successful year.



The **SAIIE Annual General Meeting** took place on 13 March in Centurion with the SAIIE President, Waldo Viljoen, giving feedback in his Presidential Report on the 2017/2018, as well as SAIIE's strategic objectives for the future. The SAIIE Treasurer, Heinrich Pretorius reported on the 2016/2017 financial year and indicated that SAIIE received a "no qualification" audit. Council Member, Jacques Fauré, was awarded the President's Awards for his contribution and on-going willingness to support cross-functional SAIIE activities during the 2017/2018 financial year.

The winners of the **2018 SAIIE Awards** were announced at a prestigious gala evening on 27 July, at Birchwood Hotel & OR Tambo Conference Centre. SAIIE Award winners were as follows:

Prof Kris Adendorff Award for Prominent Industrial Engineering Professional - Roland Rohrs - Chairman & Honourary Lecturer, Wispeco Holdings & University of Pretoria

SAIIE Award for Outstanding Industrial Engineering Educator - Teresa Hattingh - Lecturer, University of Witwatersrand

SAIIE Award for Outstanding Industrial Engineering Researcher

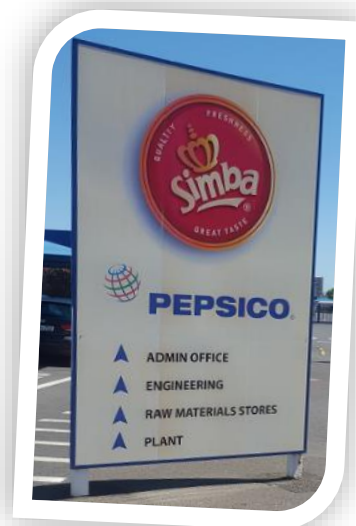
- Johan Joubert - Associate Professor, University of Pretoria
- Khumbulani Mpfu - Professor & Research Chair, Tshwane University of Technology

SAIIE Award for Outstanding Young Industrial Engineering Researcher - Tiaan Oosthuizen - Associate Professor & Director: Stellenbosch Technology Centre - Laboratory for Advanced Manufacturing Stellenbosch University

[Click here](#) for a quick overview of this beautiful event.



On 26 September and 17 October, we had a **Site Visit** at the Prospecton Plant in Durban, and Parow. SAIIE members had a view on how state of the art technology is used to drive improved manufacturing efficiencies. They were able to attend free of charge and earn 0.5 CPD credits.





From 24 – 26 October, 142 delegates attended the **29th SAIIE Annual Conference** in Spier, Stellenbosch. The unique skillset of Industrial Engineering professionals naturally ensured that every industry was covered at the conference in various breaths and depths. This was further reinforced with exceptional keynote speakers and strong workshops – laying a foundational knowledge of how the 4th IR transforms the machine-money-man relationship, bringing us back to how does this look like in the current South African socio-economic landscape, what we are doing to prepare the next generation and making sense of the hype to thrive in this disruptive time. The links to the pictures and videos have been added to the Conference Information page of the SAIIE29 website (www.saiie.co.za/saiie29).



To promote the high quality of work delivered at the SAIIE29 and RAPDASA 2018 conferences and to encourage authors to present some of their best research, South African Journal of Industrial Engineering (SAJIE) published a Special Edition of the journal on 9 November in which the best research presented at the abovementioned conferences were published. Navigate to <http://saiie.journals.ac.za/pub> for the on-line version of SAJIE Vol 29 No 3, Special Edition.

The same double-blind peer review process and criteria used for the journal were also used in this selection process, and the feedback from all reviewers was used to score and rank all conference submissions to create a final shortlist. Each submission on the final shortlist was then checked for quality and suitability by the editors of the journal.

Consequently, this special edition has a total of 22 articles:

- nineteen originated from SAIIE29 out of a total of 91 submissions on the program, and
- three articles were selected out of 23 full papers from RAPDASA.

The theme of the SAIIE29 conference was “Steering the 4th Industrial Revolution”, and for this reason, an article with a “tongue-in-the-cheek” title of “In Dis Tree – 4 What?” was selected as the feature article of this edition. This article explores the potential impact of Industry 4.0 in the South African context.

SAIIE Council News

Sadly, we said goodbye towards the end of 2018 to Sinti van den Berg.

SAIIE Council expresses their gratitude in the wisdom she has shared during her short time serving on Council and wishes her the best on future endeavours.



SAIE and other Events

Other Events:



Content and Network for Decision Makers in the Transport Sector

You are invited to join Electronic Toll Collection (ETC) and the Transport Forum at the very first session of the **ETC Road Funding Working Group** scheduled for **6 December 2018** in Pretoria. This is the first of four planned sessions where we will be discussing the future of roads in Gauteng and South Africa. Earn 1 CPD point. [Click here](#) for more information and to register.



NSTF News: The National Science and Technology Forum (NSTF) calls for nominations for the **21st NSTF-South32 Awards**. These prestigious awards focus on science, engineering and technology (SET) and innovation. Register nominations online by 14 December 2018. For more information [click here](#).

The Academy of Science of South Africa (ASSAf) is inviting you to a **SDGs and Gender Equality Session**, scheduled on **14 December 2018** from 11:00 – 12:30 at CSIR International Conference Centre in Pretoria. [Click here](#) for more information.

14-16 MAY 2019
SPIER WINE FARM | STELLENBOSCH

CPD ACCREDITED CONFERENCE

CALL FOR PAPERS

SAAMA2019
CONFERENCE

Call for abstracts for full research papers extended to **14 December 2018**

[CLICK HERE TO SUBMIT ABSTRACT](#)

conference@saama.org.za <http://saama.org.za>

The banner features a background of a globe with a network of red and white nodes and lines. The text is arranged in a clear, hierarchical manner, with the dates and location at the top, followed by accreditation information, the main call for papers, and contact details at the bottom.

[Click here](#) for the Call for Papers. Due date for abstracts for full research track is extended until 14 December 2018. To submit an abstract [click here](#).

Looking for CPD accredited courses?



is offering numerous CPD accredited courses (including on-line).



Courses includes:

- Project Management
- Requirements Engineering
- Systems Design
- System Engineering Management
- And many more

Please [click here](#) for more information and the contact numbers for the various courses.

The following courses/conferences have been accredited for CPD credits through SAIE:

- **Plant Simulation Basics, Methods and Strategies**, 5 CPD credits, contact ESTEQ Engineering at 012 809 9500.
- **Power of Process Champion Course**, 4 CPD credits, contact LTS Consulting Pty. Ltd at 021 913 8959.
- **Systems Thinking**, 4 CPD credits, contact Alpha Concepts (Pty) Ltd at 082 894 6253.
- **SWEAT Line, Lean Tools & Problem Solving, Corporate Identity and Purpose Capital**, 1 CPD credit each, [click here](#) for more information or contact Nelson Mandela University at 041 504 9124 / 041 504 3645
- **Project Management Short Learning Programme**, 3 CPD credits, [click here](#) for more information or contact Nelson Mandela University at 041 504 9124 / 041 504 3645
- **SAAMA2019**, 3 CPD credits, for more information and to register navigate to <http://saama.org.za/>

Lean Analytics Meetup:

These Meet-up groups welcome anybody with an interest, or expertise, in Operations Research, Statistics, Data Mining, Computer Science, or related disciplines. These events are a forum for people to network and share expertise or passion (or even struggles) related to any of these fields, be it quality improvement, cost reduction, analytical insights, process optimisation, etc.

The format is based on a lightweight meeting structure called Lean Coffee (<http://leancoffee.org>), which requires no formal preparation by participants. We simply discuss the issues raised by those attending. So, bring your topics and join us, whether you are professional, a student, or simply curious about the science of making things better. You will also hear about upcoming national and chapter ORSSA and SAIE events, as well as feedback on topics being raised by similar meet-ups held in other chapters.

These meet-ups are held every second Wednesday morning and all the details of the venue and time are available on the Meet-up page. Kindly follow the link for the Meetup in your area below.

Pretoria Meetup: <http://www.meetup.com/Lean-Analytics-ORSSA-PTA/>

Johannesburg Meetup: <http://www.meetup.com/Lean-Analytics-ORSSA-JHB/>

Stellenbosch Meetup: <http://www.meetup.com/Lean-Analytics-ORSSA-STB/>

Road to Registration Courses scheduled for 2019:

Kick-start your career and work towards being registered with ECSA. Being registered allows you to:



- Demonstrate your competence
- Gain recognition as a professional
- Earn more
- Boost your career prospects
- Work independently
- Add the designation Pr Eng, Pr Techn Eng or Pr Techni to your name

Please [click here](#) for the various public **Road to Registration** courses scheduled by Candidate Academy. SAIEE is prepared to arrange with a mentor to assist you with any discipline-related questions. Kindly notify the SAIEE Administrator at lynette.pieterse@up.ac.za if you have booked for any of these courses.

Articles

In the article *4th Industrial Revolution Will Change Companies from the Inside* by Tomislav Buljubasic he writes: “After invention of steam engine, there was years, in some parts of the world even half of the century or more to feel the 1st industrial revolution. Now, 4th industrial revolution is coming much faster and changes that it brings are revolutionary. Very soon we will feel the effect of processing big data, AI, machine learning, virtual reality, IoT, biotechnology, 3D printing, automation, autonomous transport or the different usage of robots.” [Read on.](#)

Schalk Burger writes in the very interesting article *Digital disruption to bring core engineering skills to fore*: “Far from posing a threat to engineering as a profession, local engineering experts believe that the digital transformation of industries and of society is amplifying the importance of the core competences of engineering disciplines and bringing them to the fore.” [Read on.](#)

In the article *China the Leaders of Innovation in 2018*, David Joseph writes: “China has become amongst the top 20 innovative economies for the first time, whilst the US has dropped 2 places according to the Global Innovation Index of 2018. What’s going on?” [Read on.](#)

Job Vacancies



A well-known South African university has a position for an Associate Professor/Professor as well as Post-Doctoral Fellowships. Please navigate to www.saiie.co.za, login with your username and password and go to “Job Vacancies” to read more and to submit you CV should you be interested.

Industries who would like to advertise job vacancies, their products/services or events on the SAIEE web page are asked to register at <http://industry.saiie.co.za/>. Do not hesitate to contact SAIEE Administrator for more information on this.

Wrapping up 2018, SAIE would like to thank all its members for their continued support and contributions to the continued growth and prosperity of SAIE. We wish you all a prosperous and truly festive season with family and friends, no matter how you choose to celebrate the holiday.

We leave 2018 behind and go into 2019, with the words of Celestine Chua:

“Life is a gift. Never forget to enjoy and bask in every moment you are in it. “

Be safe and we look forward to serving you in 2019!

Contact Us

SAIE and SAJIE Administrator

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Website: www.saiie.co.za

Please take note that the SAIE office will be closed for the festive season from Monday, 17 December 2018 until Tuesday, 8 January 2019.

