

Annual SAIChE KZN Research

The 11th Annual SAIChE research day took place on the 28th of August 2019 at Mangosuthu University of Technology, Umlazi, Durban, South Africa.

For the first time in the past 11 years, the Annual SAIChE research day was not held at the University of KwaZulu-Natal. According to the KZN SAIChE IChemE chairperson, Dr David Lokhat, the purpose of this move was to encourage the participation of other Universities within the KwaZulu-Natal region in branch activities.

This year's event was organised by Professor Babatunde Bakare of Mangosuthu University of Technology with Dr Matthew Lasich and Mr Nivaar Brijmohan serving as judges, while Dr Samuel Iwarere chaired the event. A total of 31 participants attended this year's event, which involved a review process and a call for

abstracts sent out on various forums.

The abstracts were reviewed and assessed by the judges and it was on the basis of their assessment that a decision was made as to who would be invited to give oral presentations and who would give a poster presentation.

Fifteen abstracts were submitted for review from UKZN, DUT, MUT and Umgeni Water. There were ten oral presentations and five poster presentations at this year's event. The winner of the oral presentation category was Omolara Felecia Afolabi, a PhD student at Durban University of Technology, who presented a paper entitled, *Competitive adsorption of Pb (II) and Cu (II) from wastewater using*

banana peel: modelling and optimisation study.

The first runner up was Emmanuel Tetteh a PhD student from Durban University of Technology who presented a paper entitled, *Evaluation of magnetic coagulant for industrial wastewater treatment.* The third place was a tie between Spheisihle Mtsweni a PhD student at DUT and a gap lecturer at Mangosuthu University of Technology and Edward Kwaku Armah a PhD student at Durban University of Technology who respectively presented papers entitled, *Prediction of turbidity reduction from roughing filter treating domestic greywater using artificial neural network* and *Anaerobic co-digestion of sugarcane bagasse and corn silage with industrial wastewater for biogas production.*

The winner of the poster presentation category was EO Ezugbe, a PhD student from Durban University of Technology who presented a poster entitled *Removal of COD and SO₄²⁻ from Oil Refinery Wastewater using a Photo-Catalytic System - Comparing TiO₂ and Zeolite Efficiencies.*

MechChem Africa congratulates winners and participants alike. □



SAIChE IChemE members from UKZN, DUT, MUT and Umgeni Water presented ten oral and five poster presentations for this year's event.



Seen at the 11th Annual SAIChE research day are, from left: Nivaar Brijmohan, event judge; Samuel Iwarere, chairperson; Matthew Lasich, second judge; David Lokhat, SAIChE IChemE Chairman; and Babatunde Bakare, event organiser from Mangosuthu University of Technology.



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SACEC 2020 planning advances

SAIChE IChemE is inviting participation in the SACEC 2020 congress being hosted next year. SACEC stands for the South African Chemical Engineering Congress and it will take place at Wits University from 1 to 3 July 2020. The event is open to chemical engineers and affiliates from around the world with a variety of accommodation options available close to the venue.

SACEC 2020 will offer insights into how pioneering science, technologies and leading practices are shaping chemical engineering. By connecting professionals from various sectors, SACEC 2020 will showcase how chemical engineers are responding to tomorrow's challenges in unique and novel ways.

The theme of the 2020 Congress is: 'Entering the Anthropocene'.

The 21st century is likely to be the most profound for humankind. As we hurtle forward, there are clear signs that never before have we had so much impact on our planet. As engineers and scientists our contribution to that impact is more profound than average.

Our theme for this congress, Entering the Anthropocene, provides a forum to consider implications and possibilities of this century. How will we utilise our skills

in the Anthropocene period, to continue to improve the lives of all, whilst being cognisant of and reducing our impact?

The submission deadline for abstracts has now been extended to Monday, 30 September 2019 and both presentation and poster slots are still available. Abstracts of around 200 words can be submitted online at www.sacec2020.co.za under one of the following categories:

- Environmental Process Engineering
- Metallurgical Process Engineering & Coal Technology
- Reaction Engineering
- Separation Technologies
- Chemical Engineering Education
- Process and Material Synthesis
- Fluorine Chemistry
- Other

The congress will be CPD accredited and the proceedings will be fully peer-reviewed, will have an ISSN and will conform to all DOHET requirements for accreditation.

Keynote speakers for the Congress include Philippe Tanguy, Chief Executive



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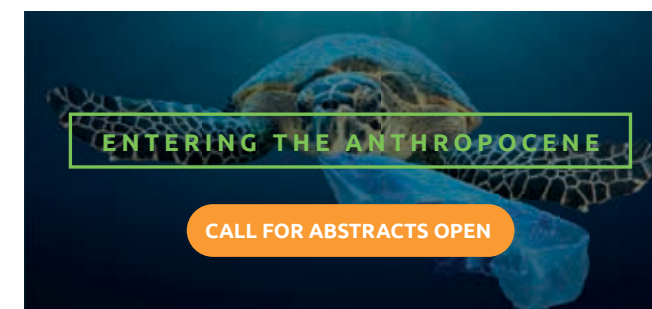
Officer of Polytechnique Montréal; Rovani Sigamoney, Assistant Programme Specialist for the UNESCO Engineering Initiative; and Dr Niall MacDowell, Faculty of Natural Sciences, Centre for Environmental Policy, Imperial College - London.

There are also opportunities to become a SACEC 2020 sponsor or exhibitor. Those interested in sponsoring or exhibiting at SACEC 2020 can contact the organising committee who will gladly explain which opportunities are still available.

For more information please contact the SACEC2020 Organising Committee at www.sacec2020.co.za or email info@sacec2020.co.za.



SAIChE IChemE 1-3 July 2020



ABOUT SACEC 2020

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How will we utilise our skills in the Anthropocene period, to continue to improve the lives of all, whilst being cognisant of and reducing our impact?

DEAR RESEARCHER,

We are seeking technical content for The South African Chemical Engineering Congress 2020 (SACEC 2020) which takes place on 1 – 3 July 2020 at the University of the Witwatersrand, Johannesburg. Both presenting and poster slots are available. The deadline for submitting abstracts is **Monday September 30, 2019**.

The congress will be CPD accredited. The proceedings will be fully peer-reviewed, will have an ISSN and will conform to all DOHET requirements for accreditation.

Register and submit your 200-word abstract at www.sacec2020.co.za

SACEC 2020 aims to bring engineers and scientists from around the world together in the hopes of creating real-world solutions to global issues.

ABOUT SAICHE ICHEME

SAIChE IChemE is a professional society in South Africa dedicated to advancing the science and the practice of chemical engineering.

Our aim is to promote high standards in the profession by enhancing the professional competence of its members.

SACEC 2020 Organising Committee
www.sacec2020.co.za | info@sacec2020.co.za

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