

**Annual Report
of the
South African Chemical Institute**

3rd August 2017 to 2nd August 2018



**THE SOUTH AFRICAN
CHEMICAL INSTITUTE**

COUNCIL

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President	Prof V Nyamori
Vice President	Prof P Mallon
Immediate Past President	Prof B Martincigh
Executive Secretary	Prof Z Tshentu
Executive Treasurer	Dr I Bratt
Co-opted Member	Dr M Booth
Co-opted Member	Prof N Coville
Co-opted Member	Prof H Marques

Reporting Officers

Publications Officer	Prof L Chimuka
Publicity	Prof B Martincigh
Webmaster	Mrs L Smith
IUPAC	Prof J Darkwa
SACNASP	Prof E Breet
RSC	Dr I Bratt/ S Finney
ACS	Prof C de Koning
SACI Student Representative	Ms K Mugadza

Chairpersons of Sections

Eastern Cape	Dr R Krause
SACI North	Dr R Mampa
SACI Central	Dr A Lemmerer
Kwazulu-Natal	Prof W van Zyl
Western Cape	Prof N Báthori

Chairpersons of Divisions

Analytical Chemistry	Prof N Nindi
Chemical Education	Prof H Drummond
Chromatography (ChromSA)	Mrs W Louw
Electrochemistry	Prof O Arotiba
Environmental Chemistry	Prof OJ Okonkwo
Mass Spectrometry (SAAMS)	Dr L Marjanovic
Industrial Chemistry	Dr M Booth
Inorganic Chemistry	Prof TJ Egan
Molecular Modelling	Dr C van Sittert
Organic Chemistry	Prof I Green
Physical Chemistry	
Green Chemistry	Dr R Klein
ThermSA	Dr L van der Merwe

OFFICE BEARERS



Prof V Nyamori
President



Prof P Mallon
Vice-President



Prof B Martincigh
Immediate Past- President



Dr M Booth
Co-opted Member



Prof N Coville
Co-opted Member



Prof H Marques
Co-opted Member



Prof Z Tshentu
Executive Secretary



Dr I Bratt
Executive Treasurer

MEETINGS

Council meetings were held on:

3rd August 2017 (AGM)

Executive Committee meetings were held on:

3rd August 2017 (AGM), 24th October 2017, 8th March 2018, 29th March 2018, 24th May 2018 and
26th July 2018

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PRESIDENT'S REPORT

I wish to begin by thanking all the SACI Executive and Council members for your many efforts and hard work in ensuring the well-being and livelihood of our Institute. Also, thanks a lot to all the Divisional and Sectional committees, and every individual SACI member for your contributions and participation in various SACI activities; without your dedication the sustainability of SACI would not be possible. Just “*like greased lightning*”, my term of office has reached the half-way mark, but none-the-less there are some notable achievements which we can all be duly proud of.

Firstly, I am happy to note that our Institute is on a sound financial footing and this is due to the great foresight and sound judgement of Executive and Council members, including our predecessors. Secondly, it is important to note that our membership numbers have also continued to grow and for this, I take this opportunity to thank all of you for being part of the Institute and please do urge and encourage your colleagues and peers to join the Institute. The Institute Secretariat, Laila Smith, has done a great task in the management of the membership, day-to-day handling of the accounts and maintaining the SACI website (<http://www.saci.co.za/>), which is a critical interface between the Institute and the public. Remember, the Institute is the only voice for chemists in our country. Thirdly, since we gained SAQA accreditation, we are now an even stronger voice for our members. We are able to award Professional Chemist status to our members and provide critical skills evaluations for chemists. Fourthly, we are still proud to be the only society in Africa that has an ISI-rated chemistry journal and it is noteworthy that the publications and citations have grown with time. Furthermore, I am thrilled that this year the Journal marks its centenary.

Also, this year we have implemented the newly proposed SACI National Conference Programme (<http://www.saci.co.za/pdf/programme.pdf>). This is a fairly spread programme which was deemed favourable, especially with the current times where it is becoming increasingly difficult to raise sponsorship/funds for conferences and this is more so due to only a small pool of possible sponsors, who repeatedly receive requests from conference organisers, and are available and willing, for which we are highly appreciative. Comparatively, with the previous status quo, it was challenging to register and attend as many Divisional and National conferences as one would wish. However, with the new structure we hope after every two years to bring and reunite all the SACI Divisions under one event, i.e. the National Convention of SACI. The upcoming 43rd National Convention of the South African Chemical Institute, will be held this year at the CSIR Convention Centre, 2-7 December 2018. This will be a true and first test for the new format. Henceforth, I once again request your participation and involvement in this event. I believe, with the new structure, it will be stimulating and exciting, and at the same time enjoyable, rewarding and inspiring too. Also, note that apart from SACI membership, the SACI conferences contribute to the lifeblood of the Institute. Hence, for the sake of the viability of the Institute, I would wish to encourage you all to register and participate in the various SACI events.

We are also in the process of streamlining the structure of our student representatives. As you all appreciate that the young chemists are the future of tomorrow and hence it is important to listen to their views as we guide them to leadership. We have the National representative, Ms. Kudzai Mugadza, who will work closely with other Sectional Student leaders and represent them at our Council meeting and the Annual General Meeting (AGM). We are also in the process of renewing our Memorandum of Understanding (MOU) with our two international counterparts, Royal Society of Chemistry (RSC) and the American Chemical Society (ACS).

I am pleased to note that SACI was a participating member of the First Atlantic Basin Conference on Chemistry. This was held in Cancún, Mexico. There was a very good representation from SACI members. For example, we had Professor Timothy J. Egan (Plenary Lecture) and Professor Tebello Nyokong (Keynote) while Professor Bice Martincigh served on the Technical Programming Committee. This event will be held every 5 years.

Recently, Professor Bice Martincigh and I attended a meeting organized by RSC. This was a two-day meeting held at the RSC headquarters in London, on 11-12 June 2018. This was to discuss ways in which globally we can develop closer links within existing chemical societies in the Commonwealth countries. The meeting was concluded by suggesting the establishment of the Commonwealth Chemical Society and also having a Commonwealth Chemistry Conference.

Lastly, my special welcome goes to those who have just joined the society, it's the right choice you made. Also, in particular for those who have been members, we appreciate your faith and support of the Society, especially in the various ways that you have been, and still are, contributing to the prosperity of SACI. Many thanks for those who have recently joined the various structures within the Institute, including new members of various committees or council members. Together the Institute will stand firmly and we hope not to lose sight of the Institute's vision and mission as we work collectively for a successful and healthy future of our Institute.

Many thanks,



Prof Vincent O. Nyamori
SACI President

AWARDS 2017
2018 awards will be announced at the AGM

THE GOLD MEDAL

The award, a gold-plated medal bearing the Institute's name and crest on the obverse and name of the medal and the recipient and date on the reverse, is made to a person whose scientific contribution in the field of chemistry or chemical technology is adjudged to be of outstanding merit.

Prof Harald Pasch

University of Stellenbosch

THE MERCK MEDAL

The medal is awarded to the senior author of the paper, or papers, published in the South African Journal of Chemistry in a specific field of chemistry, adjudged to have made the most significant contributions to the discipline. The award for 2017, covering papers published in the period 2011 to 2016, was the most cited (without self-citation) SA authored paper in the field of Chemistry.

T. Bunhu, A. Kindness and B.S. Martincigh*

***S. Afr. J. Chem.*, 2011, 64, 139-143**

Determination of Titanium Dioxide in Commercial Sunscreens by Inductively Coupled Plasma-Optical Emission Spectrometry

THE SACI POST-GRADUATE AWARDS

The awards shall be made to student members of the Institute engaged in research towards a MSc or PhD degree and registered in a School/Department of Chemistry at a South African University, or a MTech or DTech degree registered in a School/Department of Chemistry at a South African University of Technology. The number of medals awarded shall not exceed five per annum, and the awards are limited to one per institution. Past SACI/Sasol Postgraduate Awardees are not eligible for nomination for a second award of the medal. The recipients of the award shall be known as The SACI Postgraduate Awardees.

- **Mr George Kleinhans - University of Pretoria**
- **Mr Eric M Njogu - University of Kwazulu-Natal**
- **Mr Christian I Nkanga - Rhodes University**
- **Mr Tumelo N Phaahlamohlaka - University of the Witwatersrand**
- **Mr John Okombo - University of Cape Town**

THE CHEMICAL EDUCATION MEDAL

The award is made to a person who has made an outstanding contribution to chemical education as judged by the person's published work in the previous 5 years. Published work may be in any form and may be related to any level or educational context.

Dr Lynne A Pilcher
University of Pretoria

THE JAMES MOIR MEDALS

Medals shall be awarded to the best 2016 to the best fourth year student in chemistry at each University and University of Technology. To be eligible for the award the student must have achieved a minimum average final pass mark of 75%.

Awardees	University
Ms V Tokoyi	University of Fort Hare
Ms NR Molupe	Rhodes University
Ms B Dzingwe	University of Western Cape
Ms D Rademeyer	Nelson Mandela Metropolitan University – North Campus
Ms VD Ramasamy	Nelson Mandela Metropolitan University –South Campus
Mr S Lovisa	University of Pretoria
Ms W Duminy	University of the Witwatersrand
Ms J Botha	Stellenbosch University
Ms SE Orango Adewinogo	Cape Peninsula University of Technology
Ms B Shaku	University of Limpopo
Ms OMC Matlhaku	Vaal University of Technology
Mr V Vermaak	North-West University
Ms GS Motlounq	University of Johannesburg - Doornfontein
Ms BL Davids	University of Johannesburg - Auckland Park
Ms NI Richardson	University of Cape Town
Ms T Cooper	Durban University of Technology

THE RAIKES MEDAL

The award shall be made to a person, under the age of 40 on 31 March in the year of the award, whose original chemical research shows outstanding promise, as judged by the person's publications in reputable journals. It is further stipulated that the research shall have been performed in South Africa.

Prof Daniela I Bezuidenhout
University of the Witwatersrand

MEMBERSHIP REPORT

SACI Membership - 30 April 2018
CURRENT MEMBERSHIP FIGURES

Breakdown of Full Membership - Paid up figures

	Apr-14	Nov-14	Nov-15	Feb-16	Apr-16	Nov-16	Feb-17	17-Apr	Oct-17	Apr-18	Total paying	950							
Members	409	-100	309	##	198	83	281	85	370	-113	257	43	300	83	362	-61	301	83	384
RPL Member	14	0	14	-5	9	0	9	2	11	-1	10	1	11	3	14	-5	9	5	14
Ratred Members	45	-12	33	5	38	14	52	18	70	-2	68	2	70	24	94	-62	32	15	47
Associate Members Old																			
Associate Members New	3	-1	2	-1	1	1	2	0	2	-2	0	0	0	2	2	-1	1	1	2
Married Associates	274	-107	167	-51	116	74	190	37	227	-35	189	11	200	55	255	-83	192	112	304
Students(Paying)	3	0	3	0	3	0	3	0	3	-1	2	1	3	0	3	-1	2	1	3
Patron Members	9	0	9	-5	4	1	5	0	5	-1	4	1	5	2	7	-2	5	1	6
Company members	12	3	15	-4	11	9	20	7	27	3	30	2	32	12	44	-10	34	38	63
Post Doc																			
Non-Paying																			
Honorary Members	19	0	19	0	19	0	19	0	19	0	19	0	19	0	19	-2	17	0	17
Life Members(50Yr Members)	92	3	95	4	98	0	99	0	99	-1	98	0	98	0	98	2	100	0	100
Students(non Paying)	33	21	64	15	69	1	70	-6	64	8	72	-1	71	0	71	0	77	-71	6
Teachers	29	3	32	1	33	0	33	-1	32	2	34	2	36	0	36	0	36	0	36
Under Graduate Students	9	4	13	7	20	5	21	2	23	3	26	1	27	0	27	-2	25	3	20
PrChemSA Total approved (85)																			
Fellows Total approved (24)	7	7	14	1	15	0	15	0	15	8	21	0	21	0	21	2	23	1	24
Patron Member																			
Coca-Cola South Africa (Pty) Ltd																			
Merck (Pty) Ltd SA																			
Bruker South Africa (Pty) Ltd																			
Company Members																			
PerkinElmer South Africa																			
Separation Scientific SA (Pty) Ltd																			
Microsep (Pty) Ltd																			
Anton Paar Southern Africa																			
Consol Glass Pty Ltd																			
Wildlife Pharmaceuticals (Pty) Ltd																			

Divisions - Paid up figures

Analytical Chemistry Division	534
Chemical Education Division	134
Chromatography Division	178
ThomSA	61
Environmental Division	298
Industrial Chemistry Division	262
Inorganic Chemistry Division	279
Organic Chemistry Division	329
Electrochemistry Division	109
Green Chemistry Division	189
Physical Chemistry Division	213
Molecular Modeling Division	30
Mass Spectrometry Division	136

Sections - Paid up figures

Western Cape	206
Kwazulu Natal	128
North	229
Central	464
Eastern Cape	73
International Members	64

General membership

The number of paying SACI members has shown an increase from 799 in 2017 to 850 in April 2018. This increase reflects in the budget since membership is the main source of income for the institute. The table below shows that number of members in each of the regional sections for 2017 and 2018. The Western Cape, SACI North and South showed an increase in numbers while Kwazulu Natal has seen a slight decrease. Interestingly, the EC has seen an increase but the numbers remain low at 73 members. There is also an increase in international members to 64 in 2018 compared to 55 in 2017. In addition to the paying members, the Institute had 187 non-paying members during the reporting period relative to 251 in 2017. This drop was due to students who fall into this category (undergraduate up to honours students). There has also been a significant increase in members who are taking advantage of the registration as professional chemist (PrChemSA) from 41 members last year to 85 members in April 2018.

Sections	2017	2018
Western Cape	169	206
Kwazulu Natal	130	128
SACI North	207	229
SACI Central	437	464
Eastern Cape	52	73
International		64
Members	55	

The secretariat and admin office have been in contact with Chairpersons of Sections and HODs to encourage them to recruit new members as well as to revive the Student Representatives. Currently, Kudzai Mugadza will lead the student body under the leadership of the president of SACI at UKZN. The secretariat has prepared a document on membership information, which also includes benefits of being a member of the institute, and has been sent to Chairs of Sections and HODs to use for recruitment. This document appears under addendum in this report.

Life membership

The Institute has 4 members that qualify for Life Membership in 2018. These are member that have reached the age of 70 or older and have been members of the Institute for more than 35 years.

Membership number	Member	Join Date	Years of membership	Age in 2018
21000	Lotz, Prof S	1974/01/21	44	70
52090	Anderson, Mrs EU	25/03/1978	40	71
20663	Breet, Prof ELJ	1970/10/19	48	70
20748	de Mattos, Mr GWP	1981/01/21	37	70

Finally the Executive Committee (EXCO) would like to thank Mrs Laila Smith for the management of the membership database and her tireless efforts in following up on unpaid membership fees due. We also look forward to working with Chairpersons of Sections and HODs as well as the Student Representatives to increase the SACI membership for the current period and beyond. Much focus will be required on student membership to ensure that it is retained after the postgraduate studies. The admin and secretariat will endeavour to follow up on the missing membership and revive their membership.

Prof. Zenixole Tshentu
Executive Secretary

Addendum:

Membership information

Types of membership:

1. Member (R820.00)
2. Associate Member (R820.00)
3. Retired Member (R210.00)
4. Patron Member (R15 000.00)
5. Company Member (R7 500.00)
6. Student Member - Undergraduate Chemistry Student (Free membership)
7. Student Member - Honours/BTech (Free membership)
8. Student Member - MSc/PhD/MTech/DTech (R150.00)
9. Post-Doctoral Member (R210.00)
10. Secondary School - Chemistry Teacher (Free membership)
11. Life Membership (Free membership, must have been a member of the institute for 35 or more years and be over 70 years of age).
12. SACI Fellow Membership (by prestigious appointment of a full SACI member in good standing with the Institute. One must have been a member of the Institute for at least ten years. In addition, they must have demonstrated excellence and leadership in the areas of both: (a) the profession, education and/or management of chemistry, and (b) volunteer service to the chemical community.
13. Professional Chemist (PrChemSA) (R320 joining fee and R160 annual fee). NB: In order to be accepted as a Professional Chemist one must apply and be accepted as a SACI member and maintain the SACI membership.

Regulations Governing Admission:

1. Member

The Council may admit as a Member:

A person who has completed a four-year course in any branch of chemistry and has been granted a degree, diploma or certificate of an approved examining body, and (except in special cases) who has been engaged in full-time chemical work or further study in chemistry for at least three years; in exceptional circumstances, any person whose position and experience in chemistry justifies such admission.

2. Associate Member

The Council may admit as an Associate member:

A person regardless of qualification and experience, who is passionate about chemistry.

3. Patron and Company Members

Any company having interests in chemistry and chemical technology is eligible for election as a Patron or as a Company Member.

Patron members can get up to 10 members within their company to get SACI benefits and discounts for registration at SACI conferences and conventions. Patron Companies get a 15% discount on exhibition space at SACI conferences and conventions, and free advertising in SACI newsletter and website.

Company members can get up to 5 members within their company to get SACI benefits and discounts for registration at SACI conferences and conventions. Companies get a 10% discount to exhibit at SACI conferences and conventions, and free advertising in SACI newsletter and website.

Method of application:

Complete the on-line application form at http://www.saci.co.za/apply_for_membership.html.

Note particularly the need to identify three referees, at least one of whom is a Member of the SA Chemical Institute. Make sure you have filled in an email address.

Obtain documentary evidence (e.g. official letters, degrees or diploma certificates, or certified copies of these) of your experience and qualifications and attach it to the online application.

Once the application has been processed and approved you will receive an invoice from Head Office with banking details.

When payment is made please use your membership number as reference. The annual subscription year runs from 1st July to 30th June each year. The subscription of members admitted between 1st January and 30th June is reduced by one-half.

Benefits of Belonging to SACI:

1. SACI is the only body in South Africa which is concerned solely with the promotion of the interests of chemistry and chemists. This involves representation on SACNASP, NSTF/SETAG, CHIETA and other government and non-government organizations.

2. SACI has both a geographical (in terms of Sections, namely Central (Gauteng, North-West and Free State), North (Limpopo and Mpumalanga), Western Cape, Eastern Cape and KwaZulu-Natal) and a discipline-based structure. The thirteen Divisions include analytical, environmental, industrial, inorganic, organic and physical chemistry, molecular modelling, electrochemistry, chemical education, green chemistry, ThermSA, ChromSA and SAAMS.

3. Membership is open to all those with qualifications in chemistry or have an interest in chemistry.

4. SACI holds a Convention every three years. Many of the Divisions also hold regular biennial specialist conferences.

5. Reduced registration fees apply for SACI members to SACI-sponsored conferences and workshops.

6. Membership of SACI entitles chemists to join IUPAC, and enjoy access to IUPAC publications and services.

7. SACI publishes an electronic research journal, the South African Journal of Chemistry, which is Open-Access and part of the Scielo platform. It is indexed by Chemical Abstracts Service (CAS), Current Web Contents, Chemistry Citation Index, Index to Scientific Reviews and Speleological Abstracts. It is accredited by DHET.

8. SACI makes annual awards recognizing outstanding achievements by chemists.
9. SACI fosters and encourages student participation in events of interest to chemists, such as Young Chemists' Events, research colloquia, postgraduate symposia, etc.
10. SACI publishes a monthly newsletter, which reports news and events of interest to chemists.
11. SACI has links with other related institutions and associations, for example the South African Institution of Chemical Engineers, the Chemical and Allied Industries Association, American Chemical Society (ACS), Royal Society of Chemistry (RSC) and the European Federation for Medicinal Chemistry (EFMC).
12. Membership of SACI gives benefits when attending RSC events.
14. SACI carries out an annual salary survey.
15. Access to SACI webpages is by membership only. Non-members have limited access.

Prof Zeni Tshentu
Executive Secretary

PROGRAMME COMMITTEE

There have been several very successful SACI conferences (as well as a few others of interest) during the current reporting period. The **18th Inorganic/Carman conference** was held at Arabella Estate near Hermanus in the Western Cape from the 25th-29th of June last year. This was an extremely successful event and on behalf of SACI, I would like to thank Tim Egan and his team for organising this very successful event in a wonderful location. Tim Egan also formally received his SACI Gold Medal and presented the Gold Medal lecture at the event.

4th International Symposium on Electrochemistry “Pure and Applied Electrochemistry” took place from 3 - 5 April 2018 at UJ. The event had 3 Plenary lectures, 6 keynote speakers, 26 oral presentations and 36 poster presentations. The Electrochemistry Division has also submitted a special request to host the **5th International Symposium on Electrochemistry** at the University of the Western Cape from 11-14 August 2019. As some of you are aware, Durban will host the 70th Annual Meeting of The International Society for Electrochemistry in 2019. The symposium at UWC will be a satellite meeting after the Durban conference but be a separate SACI event. The request to host the meeting at UWC has been endorsed by the Executive Committee of Council to take place in 2019.



Delegates at the 4th International Symposium On Electrochemistry at UJ

The **Analitika 2018** conference is taking place at the Legends Golf and Safari Resort in Limpopo as this report is being written. We trust that this conference will be a great success as always and we look forward to receiving the full report on the conference in the near future.

Although not a SACI conference, the **7th International Conference on Nanoscience and Nanotechnology in Africa (NanoAfrica 2018)** conference (under the banner of the South African Nanotechnology Initiative) took place at Salt Rock under the chairmanship of the current SACI president. This was a great success and SACI provided the administrative support for this event. The event had 5 plenary lectures, 6 keynote speaker, 40 oral presentations and 74 poster presentations.



A group photograph of NanoAfrica 2018 delegates at Salt Rock, Country Club, KZN

The main event for the coming year is of course the **43rd SACI National Convention** to take place in Pretoria from the 2-7 December of this year. This will be the first national convention to take place in the new three-year cycle of National Conventions and Richard Mampa and his team are well on track to organise what is logistically of very big event! They has lined-up a very impressive list of plenary and invited lecturers including Frazer Stoddart and we look forward to this event in its new format where the various divisions have arranged symposia under the National Convention banner. We hope to see as many SACI members at this event as possible as there are not many occasions where the entire chemistry community of South Africa have the opportunity to attend the same meeting! This will give members a chance to interact not only with colleagues in their field, but with the broader chemical community as well! This is one of the main motivations for the new format and we hope that all SACI members will embrace this idea!

The **15th Frank Warren Conference**, will take place in KwaZulu-Natal between 14th June and 7th July (date to be finalised). Clinton Veale and Neil Koorbanally are the Co-chairs of the organising committee and we wish them and their team all the best as they prepare for this event.

The other big news is that the **26th IUPAC International Conference on Chemistry Education** will be held in Cape Town from 13-17 July 2020 in Cape Town. Professor Bette Davidowitz is the chair of the organising committee. The SACI Exco has fully endorsed this very important international event that will take place in Africa for the first time in 2020. We trust that SACI members will fully support this event and take the opportunity to engage with colleagues from around the world that have a passion for chemical education!

Prof Peter Mallon
Vice President and Chair of the programme committee

SA JOURNAL OF CHEMISTRY

Report SAJChem - 2018

Our Journal turned 100 years old in 2018! All papers are freely available online at <http://journals.co.za/content/journal/chem/browse>).

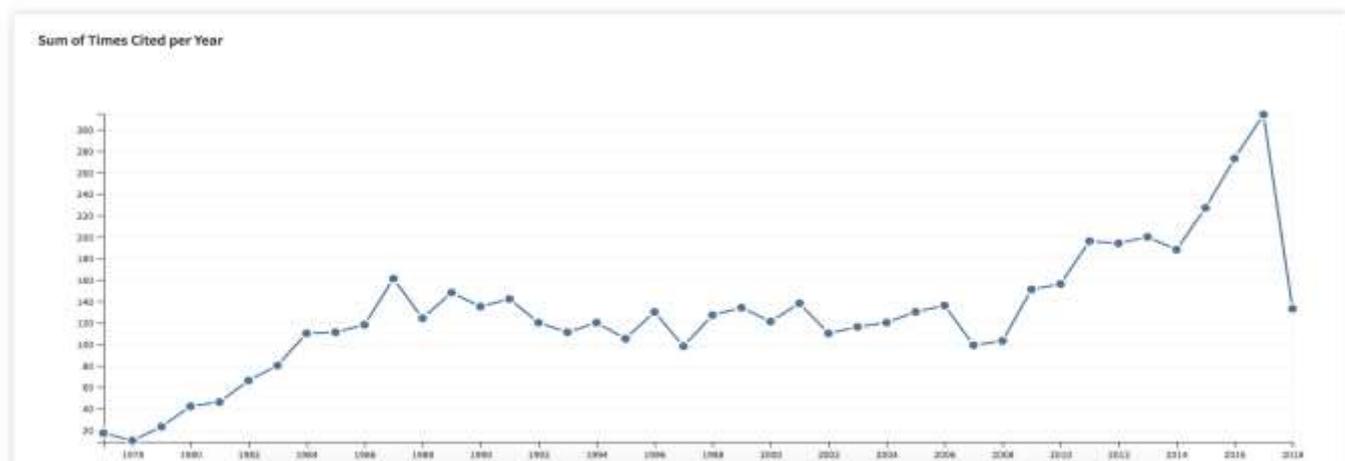
A number of special issues are planned to celebrate the 100 years old.

Details of the journal and the editors can be seen at <https://www.sabinet.co.za/sajchem/>

Journal submission is on: <http://www.saci.co.za/journal/>

Stats about the Journal are presented below (Scopus July 2018). The numbers of citations are also increasing since 2008. Credit should go to the editors given in the Table below.

2018 Search results:



SAJC editorial team	
Organic Chemistry <ul style="list-style-type: none">- Prof Willem van Otterlo- Dr Leigh-Anne Fraser- Prof Gert Kruger	Physical Chemistry <ul style="list-style-type: none">- Professor Bice Martincigh- Professor Jeanet Conradie
Analytical Chemistry <ul style="list-style-type: none">- Prof Patricia Forbes- Dr Marc Humpries- Prof Priscilla Baker- Prof. Vernon Somerset	Educational Chemistry <ul style="list-style-type: none">- Professor Bette Davidowitz
Materials Science and Nanotechnology <ul style="list-style-type: none">- Prof Neerish Revaprasadu- Prof Patrick Ndungu- Dr Roy Forbes	Inorganic Chemistry <ul style="list-style-type: none">- Prof Daniela Bezuidenhout- Dr Sam Mahomed
	Computational Chemistry <ul style="list-style-type: none">- Prof. CGCE van Sittert
	Assistant Editors <ul style="list-style-type: none">- Mr. Siyabonga Maphumulo- Ms Kimberleigh Govender- Dr Sooraj Bajjnath
	Editors-in-Chief <ul style="list-style-type: none">- Prof. Luke Chimuka- Prof. Tricia Naicker

Since the beginning of 2016, the journal has two Editors-in-Chief on a rotational basis: First it was Profs Gert Kruger and Luke Chimuka. The idea is that each person will serve 2 years. Year one as the “End process” editor and year 2 as the “Screening process” editor for all new submissions. Prof. Gert Kruger stepped down at the end of 2017 and is highly credited for the introduction of the online submission system that has improved the turnaround of papers and easy assessment of the quality of the submitted papers via turnitin reports as carried out by introduction of assistant editors. Prof Tricia Naicker

replaced Prof Gert Kruger at the beginning of 2018 as one of the two Editors-in-Chief. Prof Luke Chimuka will step down at the end of 2018 after serving two years as one of two Chief Editors. Towards August 2018, a new editor will be recruited.

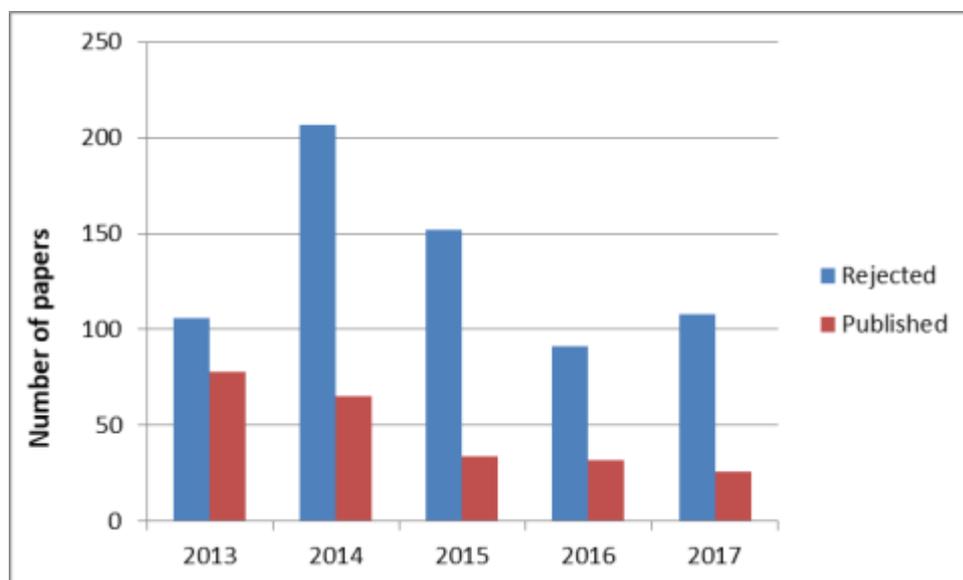
The majority of the papers published are still from South Africa. The top 100 countries of authors that have published in the journal are presented below.

Iran is in second place, followed by India and China. USA is in 5th place, followed by Germany, Nigeria and Australia. Nigeria was in the 8th place in 2014. At least 21 other African countries are publishing in the journal (was 14 in 2014 and 19 in 2015).

<input type="checkbox"/> SOUTH AFRICA (481)	<input type="checkbox"/> SOUTH KOREA (4)	<input type="checkbox"/> GUYANA (1)
<input type="checkbox"/> IRAN (73)	<input type="checkbox"/> SWEDEN (4)	<input type="checkbox"/> HUNGARY (1)
<input type="checkbox"/> INDIA (56)	<input type="checkbox"/> CZECH REPUBLIC (3)	<input type="checkbox"/> JAPAN (1)
<input type="checkbox"/> PEOPLES R CHINA (48)	<input type="checkbox"/> ISRAEL (3)	<input type="checkbox"/> MACEDONIA (1)
<input type="checkbox"/> USA (33)	<input type="checkbox"/> MALAYSIA (3)	<input type="checkbox"/> MAURITANIA (1)
<input type="checkbox"/> GERMANY (20)	<input type="checkbox"/> OMAN (3)	<input type="checkbox"/> MAURITIUS (1)
<input type="checkbox"/> NIGERIA (16)	<input type="checkbox"/> ZIMBABWE (3)	<input type="checkbox"/> MOROCCO (1)
<input type="checkbox"/> AUSTRALIA (14)	<input type="checkbox"/> AUSTRIA (2)	<input type="checkbox"/> NAMIBIA (1)
<input type="checkbox"/> BOTSWANA (13)	<input type="checkbox"/> BELGIUM (2)	<input type="checkbox"/> NORWAY (1)
<input type="checkbox"/> ENGLAND (13)	<input type="checkbox"/> CISKEI (2)	<input type="checkbox"/> PORTUGAL (1)
<input type="checkbox"/> TURKEY (12)	<input type="checkbox"/> ETHIOPIA (2)	<input type="checkbox"/> RUSSIA (1)
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<input type="checkbox"/> ALGERIA (6)	<input type="checkbox"/> ZAIRE (2)	<input type="checkbox"/> TAIWAN (1)
<input type="checkbox"/> ROMANIA (5)	<input type="checkbox"/> CAMEROON (1)	<input type="checkbox"/> TANZANIA (1)
<input type="checkbox"/> BRAZIL (4)	<input type="checkbox"/> CANADA (1)	<input type="checkbox"/> TUNISIA (1)
<input type="checkbox"/> LESOTHO (4)	<input type="checkbox"/> COTE IVOIRE (1)	<input type="checkbox"/> UGANDA (1)
<input type="checkbox"/> PAKISTAN (4)	<input type="checkbox"/> CROATIA (1)	<input type="checkbox"/> WALES (1)
<input type="checkbox"/> SAUDI ARABIA (4)	<input type="checkbox"/> FINLAND (1)	

The Figure below gives the number of papers rejected and published from 2013 to 2017. In general the number published articles per year seem to be stabilizing around 25-30 per year with more than half of the papers rejected. This has helped to improve the quality of the published papers.

In 2010 the journal published 39 articles comprising 232 journal pages; the corresponding data for 2011 was 41 papers (262 pages), 2012 was 44 papers (285 pages) and 2013 was 46 papers (289 pages), 2014 was 39 papers (240 pages), 2015 was 34 paper (262 pages), 2016 was 32 papers (253 pages). The impact factor of the Journal is currently at about 0.65.



The current electronic system can now easily produce statistics for the submission process. Below are some of the statistics:

Some statistics from journal electronic system					
	2013	2014	2015	2016	2017
Total submissions made	140	243	189	158	108
Analytical	22	45	61	53	37
Comp. Chemistry	15	12	14	12	9
Education	5	7	3	5	0
Inorganic	25	26	20	17	13
Nano	12	21	10	16	12
Organic	34	103	53	37	28
Physical	27	28	29	18	9

The average days for acceptance and rejection varies from year to year. That is in our view the most important point that needs improvement, provided we can keep up the quality of the journal. Often the challenge is finding quality reviewers who are also fast enough as this is the limiting factor in the whole review process.

The ORCID of the authors to their SAJChem papers is now a requirement though is not fully enforced. This is slowly being implemented to the submission process like other international journals.

The possibility of rewarding referees for their work *via* ORCIDs is still being investigated as it requires an annual subscription of about R16k. Publons (<https://publons.com/benefits/publishers>) that seems to offer a similar service is also being investigated.

Finances of the Journal:

Annual costs are about R14000 to Sabinet for hosting the journal and about R46000 for creating proofs (for 32 papers in 2016).

We also pay R1050 per month (R12 600 per annum) for hosting and maintenance of the Management system website.

Total costs per year are about R73 000.00

Prof Luke Chimuka and Prof Tricia Naicker
Editors-in-Chief of SAJC

SACI NEWSLETTER

For over ten years Professor Neil Coville did a sterling job of editing and collating the monthly SACI Newsletter. On behalf of all the SACI members I would like to thank him very much for all his efforts in this regard to keep our membership informed of events and items of interest. From January 2018 I took over this task and I hope to be able to keep up Neil's good work.

The Newsletter is published monthly and reports on Sectional and Divisional events that have taken place. In addition, we report on activities of societies that SACI is affiliated to, for example, IUPAC, NSTF, RSC, FASC, etc. Conference calls are also placed in the newsletter as are job advertisements and items of research interest.

A small charge for advertisements in the newsletter is requested and this assists with raising funds to keep SACI alive.

I would like to thank all the contributors to the Newsletter and would like to invite any member to send me contributions of interest to other SACI members.

Prof B Martincigh

IUPAC

The South African IUPAC committee is a member of ICSU South Africa but for the past year, there have been no meetings of the ICSU Consultative Forum called by the NRF.

Nevertheless, South Africa is well represented on IUPAC fora. Professor Alan Hutton of the University of Cape Town is the President of Division VIII: Chemical Nomenclature and Structure Representation Division. Professor Marietjie Potgieter, of the University of Pretoria, is a Titular Member of the Standing Committee on Chemical Education and assigned to the portfolio of "Special Projects". Professor Peter Mallon from Stellenbosch University has been elected to serve as the National Representative on the IUPAC Polymer Division Committee (IV) for the term 2018-2019. We heartily congratulate them for putting the face of South African Chemistry on the map!

Of great importance to South Africa is that we won the bid to host the 26th IUPAC International Conference on Chemistry Education (ICCE2020) in Cape Town, in 2020. Preparations are well under way under the chairmanship of Professor Bette Davidowitz of UCT.

The forthcoming IUPAC meetings will be held in Paris (2019), Montréal (2021) and The Hague (2023). In 2019 IUPAC will celebrate its centenary and we have all been asked to hold events to celebrate the

anniversary. A number of events have been planned for this celebration (see: www.iupac.org/100). In addition, IUPAC together with other Unions, obtained approval from UNESCO that 2019 be designated as the International Year of the Periodic Table of Chemical Elements (IYPT), to celebrate the 150th anniversary of the great discovery of Dmitry Mendeleev. South Africa supported this motivation.

Prof B Martincigh



SACNASP is empowered by the Natural Scientific Professions Act, 2003 (Act No 27 of 2003) to register Natural Scientists in different Fields of Practice (FOP's). The Registration Committee (RC) executes its function through Professional Advisory Committees (PAC's), which evaluate the qualifications and vocational experience of applicants associated with 42 Voluntary Associations (VA's).

- **Registration Statistics**

SACNASP currently has 13 239 registered scientists, of which only 800 (or 6%) are Chemical scientists. Of these, 429 are registered on Professional, 194 on Certificated and 177 on Candidate level.

- **Voluntary Associations**

SACNASP has started to publish a short article on each of the VA's in issues of its trimonthly Newsletter. SACI was highlighted in the January-March 2018 issue, and there has been almost immediate response from chemists interested in or applying for SACI membership.

- **Free Student Enrolment**

SACNASP has started free enrolment of final year and postgraduate students at Higher Education Institutes (HEI's). The purpose of this campaign is to create awareness about professional registration, accessibility to information related to education and training, and exposure to networking opportunities. HDI Youth Marketers has been contracted to run student engagement days at HEI's across South Africa to guide students through the enrolment process. Campaigns were already held at UJ, UP, TUT, CUT, UFS and NWU.

- **Discussion Forums**

SACNASP hosted a Discussion Forum on 6 December 2017 at CSIR International, Convention Centre, the purpose of which was to engage with key stakeholders to ensure that its future activities serve the dual function of providing for the interests of its scientists and of maintaining their credibility and standing in their professions. SACNASP also published a document titled "The Role of SACNASP and its Voluntary Associations in the National System of Innovation" in cooperation with the Human Sciences Research Council (HSRC), which was discussed at a Report Launch at Wapadrand on 14 June 2018.

- **Continuing Professional Development (CPD)**

CPD was initiated in April 2017 at SACNASP for all Professional and Certificated Natural Scientists. It is still a learning curve for SACNASP, but there has been positive response from scientists, VA's and service providers. Registered scientists have to accumulate 25 CPD points over a five-year period. These points can be gained through several activities including attending conferences, belonging to a VA, and assisting SACNASP as a referee or as a member of one or more of its Committees.

- **Networking Sessions**

SACNASP hosted or participated in a number of scientific events around the country in the past year. These include, among others, a display at the "Science is Fun" initiative at the Rand Easter Show 14-23

April 2017, a networking session at Koeberg Nuclear Power Station on 20 September 2017, attendance of an “Indigenous Knowledge Expo” at Mbombela in cooperation with DST and Mpumalanga Government 26-28 September 2017, an engagement with teachers, learners and community members at the “Science Festival” at Rustenburg 14-15 October 2017, a networking session in conjunction with DWS on “Water Resources Management” in Durban on 12 December 2017, participation in Eskom’s prestigious “Women in Science” networking session on 8 February 2018 at Midrand, and an exhibition at “SciFest Africa” at Grahamstown 7-13 March 2018.

- **Critical Skills Visa Applications**

SACI and SACNASP shares an evaluator for the Critical Skills visa applications received from Chemical scientists.

Prof. ELJ Breet Pr.Sci. Nat.

Chairperson of PAC for Chemistry

SECTION AND DIVISION REPORTS

EASTERN CAPE

The ANNUAL EASTERN PROVINCE SACI POST-GRADUATE CHEMISTRY SEMINAR took place at Rhodes University on Friday October 20th 2017. The four Universities in the region were represented well by their speakers, presenting on a range of research from natural product derived plasticizers to theoretical studies. It was exciting to see such a high calibre of young scientists enjoying the opportunity provided by SACI. The afternoon of talks was followed by the awarding of the SACI Post graduate award to Christian Nkanga (Rhodes University) and the James Moir medals for the region. The participants and supporters then enjoyed a short cocktail party which provided opportunity for networking and catching up amongst academics and students before the prizegiving and the long drive to the respective cities for Walter Sisulu University (both Mthatha and East London campuses were represented), University of Fort Hare and Nelson Mandela University.

The prize winners were:

Junior section First prize: Cuan Kruger (Rhodes University)

Second prize: Ms Lizé de Jager (NMU)

Senior section First Prize: Sivuyisiwe Mapukata (Rhodes University)

Second prize: Ms Kirstin Burger (NMU)

During the tea break representatives of the four campuses gathered to discuss how to take the eastern cape section forward. The challenge of having the campuses quite distant from each other was considered, and a proposal was made to encourage the sharing of visiting speakers, and to invite speakers from neighbouring Universities.



Figure 2 The James Moir Medal winners for the Eastern Cape, 2017, and Christian Nkanga (SACI post graduate medal for 2017)



Figure 1 All the speakers from NMU, WSU, Fort Hare and Rhodes University, 2017

Prof R Klein
Eastern Cape Committee

SACI CENTRAL

The only major event held in Gauteng South Section was the Young Chemists Symposium held at UJ and organised by Edwin Mmutlane. I am sending you his report, which should be the formal report to SACI Council

2017 SACI YOUNG CHEMISTS' SYMPOSIUM

The University of Johannesburg's (UJ) Departments of Chemistry and Applied Chemistry successfully hosted the annual South African Chemical Institute (SACI) Gauteng Central Section's Young Chemist's Symposium on Thursday November 30th, 2017. The event took place at UJ's Auckland Park campus and was attended by delegates from research and academic institutions in the Gauteng Province. Presentations were given by 18 MSc and PhD students from UJ, University of South Africa (UNISA), University of the Witwatersrand (Wits) and Vaal University of Technology (VUT), covering a wide spectrum of research activities; from water treatment to catalysis and drug design. It was a whole day's event, comprising four consecutive entertaining and thought provoking sessions, with each speaker allowed ten minutes to present, followed by five minutes of questions by the audience. A panel of 3 judges reviewed the presentations and had to come up with six best presentations under two categories; MSc and PhD. The excellent standard of all the talks made this a grueling decision but in the end, the prizes were awarded as follows:

PhD

First Prize : Azeez Idris (UJ), "An electrochemical immunosensor for the tumor marker α -feto protein using a glassy carbon electrode modified with manganese (IV) oxide nanorod and gold nanoparticles".

- Second Prize : Nozipho Gumbi (UNISA), "*Fabrication of macrovoid-free PES/SPSF/O-MWCNT membrane supports with improved mechanical strength and antifouling properties*".
- Third Prize : Yannick Nuapia (Wits), "*Optimization of water extraction with on-line particle formation of Moringa Oleifera*".
- MSc
- First Prize : Delbert S. Botes (Wits), "*Exploring Diels-Alder reactivity in charge-transfer crystals*".
- Second Prize : Obakeng B. Nchoe (VUT), "*Surface modification and grafting of macadamia nutshell powder with diphenylcarbazine for Cr(VI) sequestration from aqueous solutions*".
- Third Prize: : Prudence P. Mashile (UJ), "*Removal of Mycrocystin-LR from surface and wastewater using tyre-based powdered activated carbon: kinetics, isotherms*".

UJ's Faculty of Science generously sponsored the event, with SACI and the Royal Society of Chemistry providing prize money and Merck a trophy for each of the first prize winners. Shimadzu, Sasol, Perkin Elmer and Sanofi Aventis provided additional funding. As Prof Govender, the Head of UJ's Department of Applied Chemistry said in her written message to the delegates "solutions to air, water and land pollution problems, incurable diseases, unemployment and hunger lie in chemistry". Thus, investment in the future of chemistry by the sponsors is worthwhile. The University of Johannesburg, SACI and the Royal Society of Chemistry congratulates all participants and the winners.



Prize winners from left to right: Delbert S. Botes (MSc), Prudence P. Mashile (MSc), Yannick Nuapia (PhD), Azeez Idris (PhD), Nozipho Gumbi (PhD) and Obakeng B. Nchoe (MSc).

Dr Andreas Lemmerer
Chairman of SACI Central South

SACI NORTH
SACI North Section: 2017/2018 Annual Report

1. Committee

The SACI North section committee is constituted of academic and research institutions in the geographical area North of Gauteng i.e. Universities of Pretoria, Limpopo, Venda, Sefako Makgatho, Mpumalanga and Tshwane University of Technology including CSIR and NECSA. The current committee members and their portfolios are: Dr RM Mampa (Chairperson; University of Limpopo), Dr S Mnyakeni-Moleele (Vice-chair; University of Venda), Dr D Riley (Student matters; University of Pretoria), Dr MS Sonopo (Marketing and Events; NECSA), Dr FM Muganza (Membership; Sefako Makgatho Health Sciences University), Dr M Modibedi (Treasurer; CSIR), Prof CM Nkambule (Secretary; Tshwane University of Technology). Prof S Lotz (University of Pretoria, SACI Executive Committee member) has since retired from University of Pretoria and relocated to Western Cape and therefore ceased to be SACI North Section Committee member. The University of Mpumalanga, Department of Chemistry does not have a delegate on the committee as yet but looking forward to representation soon.

2. Events

2.2. 2017 Young Chemist Symposium

SACI North Section held its 2nd annual YCS symposium on the 3rd of October at TUT following the committee 4th scheduled meeting on the evening of 2nd October 2017. We had a total of 51 abstracts and 113 registered delegates. Dr Mosidi Makgae (MD: Geo-Environmental and Technical Services) gave an inspirational keynote address. Three winners in each of the four categories received a certificate, monetary awards and mugs, all generously sponsored by RCS South Africa. Thanks to Dr I Bratt whose support has been pivotal over the years. In total, we had 6 doctoral and 8 masters' oral presentations from whom 11 were female. The winners are listed below according to positions:

PhD/D Tech Category:	1 st place (tied)	Mr D Van Greunen	(UP)
	1 st place (tied)	Ms J Suthiram	(NECSA)
	3 rd place	Ms NH Kera	(CSIR)
MSc/M Tech category	1 st place	Ms M Mangisa	(TUT)
	2 nd place	Ms N Nevt	(UP)
	3 rd place	Ms A Nkuna	(Univen)
Postgraduate posters	1 st place	Mr B Setini	(CSIR)
	2 nd place	Mr GH Rakodi	(TUT)
Honours/B Tech posters,	1 st place	Ms ZKS Mcotshana	(TUT)
	2 nd place	Ms P Mphahlele	(TUT)
	3 rd place	Mr ML Melepe	(UL)
	4 th place	Ms P Neluleni	(SMU)



Delegates



Students participants

The day went very well, as planned

2.3 Young Chemist Symposium: 2018

The SACI North Section took a decision during its first meeting of 2018 not to hold Young Chemist Symposium in lieu of the upcoming 43rd National SACI Convention. It was agreed by all representatives from affiliated institutions (Mpumalanga was absent) in the North Section to concentrate all efforts and energies towards the hosting of the Convention.

2.4 SACI 2018 National Convention

The SACI North section committee has been tasked with organization of the 43rd SACI National Convention. The core structure of the Organising Committee is as follows:

▪ LOC Chair	Richard Mampa
▪ LOC Vice Chair	Simon Moleele
▪ Marketing and Publications	Molahlehi Sonopo
▪ Treasurer - Sponsorships	Mmalewane Modibedi
▪ Scientific Program	Comfort Nkambule
▪ Secretariat and Conference website	Laila Smith
▪ Advisor	Neil Coville
▪ Social Functions	Freddy Muganza
▪ Accommodation	Darren Riley
▪ Transportation	Lilian Hlabangane

Scientific Committee has been appointed which include chairs of SACI divisions and volunteers accounting for each theme identified for the conference. The appointed theme coordinators will also be responsible for identifying and hosting of plenary speakers as per SACI national council resolution. The selected SACI divisions will have representation in the scientific committee for equitable allocation of presentation sessions in the convention.

2.4.1

There are 19 subject themes for the 43rd SACI National Convention to be held 2-7 December 2018. The following are the theme administrators, and their respective scientific committee volunteers:

A.	Analytical Chemistry	Prof Matthew Nindi (Nindimm@unisa.ac.za)
		• Prof Peter Ndibewu (Ndibewup@tut.ac.za)
B.	Catalysis	Dr Peter Makgwane (pmakgwane@csir.co.za)
		• Dr Xolile Fuku (xfuku@csir.co.za)
C.	Chemical Education	Prof Helen Drummond (Helen.Drummond@nwu.ac.za)
D.	Chromatography	Dr Wiana Louw (Wiana.Louw@sagl.co.za)
E.	Crystallography	Prof A Muller (MullerA@uj.ac.za)
F.	Electrochemistry	Prof O Arotiba (oarotiba@uj.ac.za)
		• Dr kathego Makgopa (Makgopak@tut.ac.za)
		• Dr Haitao Zheng (hzheng@csir.co.za)
G.	Environmental Chemistry	Prof OJ Okonkwo (OkonkwoOJ@tut.ac.za)
		• Dr M Mujuru
H.	Green Chemistry	Dr Rosalyn Klein (R.Klein@ru.ac.za)
I.	Industrial Chemistry	Dr Michael Booth (9Michael@telkomsa.net)
J.	Inorganic Chemistry	Prof Timothy Egan (Timothy.Egan@uct.ac.za)
		• Dr Amanda Manicum (Manicumae@tu.ac.za)
K.	Mass Spectrometry	Dr Ljiljana Marjanovic (Ljiljana.Marjanovic@sgs.com)
L.	Molecular Modelling	Dr Penny Govender (pennyg@uj.ac.za)
		• Dr Matshawe Tukulula (Tukululam@tut.ac.za)
M.	Molecular Spectroscopy	Dr M Lekgoathi (mpho.lekgoathi@necsa.co.za)
N.	Nanotechnology	Dr Lucky Sikhwivhilu (luckys@mintek.co.za)
		• Dr Letlhogonolo Mabena (MabenaLF@tut.ac.za)

- Dr Nicholas Mysuoka (nmysuoka@csir.co.za)
 - Dr Lucky Sikhwivhilu (luckys@mintek.co.za)
 - Dr Henrietta Langmi (CSIR) (hlangmi@csir.co.za)
- O. Natural Products
Dr S Mnyakeni-Moleele
(Mnyakeni.Moleele@univen.ac.za)
- Dr TC Leboho (Tlabo.leboho@ul.ac.za)
 - Dr Jacqueline Tembu (Tembuj@tut.ac.za)
- P. Organic Chemistry
Prof Ivan Green (irg@sun.ac.za)
- Prof Winston Nxumalo (Winston.nxumalo@ul.ac.za)
 - Dr Patrick Nonjola (snonjola@csir.co.za)
- Q. Physical Chemistry
Dr LC Murulana (lutendo.murulana@univen.ac.za)
- R. Radiochemistry
Dr D. Jansen (david.r.jansen@gmail.com)
- Dr David Kock (david.kock@necsa.co.za)
- S. Thermal Analysis
Dr Liezel van der Merwe
(Liezal.VanDerMerwe@up.ac.za)

2.4.2

The local organizing committee has invited the following speakers:

A. Plenary speakers

- Prof Sir Fraser Stoddart, Northwestern University, USA (Opening)
- Prof Kelly Chibale, University of Cape Town, RSA (Closing)
- Prof Lutz Ackermann, Georg-August Universität Göttingen, Germany
- Dr Mehran Alaei, Environment and Climate Change Canada, Canada
- Prof Emmanuel Iwuoha, University of Western Cape, RSA
- Prof Malose Mphahlele, University of South Africa, RSA

B. SACI Awards Plenary Lectures

- 2016 Gold Medal Prof TJ Egan, University of Cape Town (declined)
- 2017 Gold Medal Prof H Pasch, University of Stellenbosch
- 2018 Gold Medal Prof XX
- 2016 Raikes Medal Prof ZR Tshentu, Nelson Mandela University
- 2017 Raikes Medal Prof DI Bezuidenhout, University of the Witwatersrand
- 2018 Raikes Medal Prof XX
- 2016 Chemical Education Medal Prof H Drummond, North-West University
- 2017 Chemical Education Medal Dr PA Pilcher, University of Pretoria

C. Keynote speakers

- Prof OA Asojo, Baylor college of Medicine, USA (Organic)
- Prof R Hanson, University of Education Winneba, Ghana (Education)
- Prof S Marx, North-West University, RSA (Industrial)
- Prof SO Ojwach, University of KwaZulu-Natal, RSA (Electrochemistry)
- Prof MW Peczuha, University of Connecticut, USA (Organic)
- Dr J Rajput, Tomorrow matters Now, RSA (Green Chemistry)

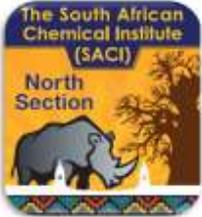
(The remaining keynote speaker slots (6 in total) will be filled by candidates identified from submitted abstracts within the different themes)

2.5 Marketing

The marketing of the 43rd National SACI National Convention is taking place on multiple front's i.e.

1. Webpage: <http://www.saci.co.za/SACI2018/index.html>,

2. Flyer was circulated to the SACI membership



Chemistry for a Sustainable African Economy

2-7 December 2018
CSIR-ICC, Pretoria, South Africa

⊖ The SACI North Section invites you to a golden opportunity to participate in a week-long extravaganza of exciting chemistry, including talks by the **2016 Chemistry Nobel Laureate**, invited **local and international guest speakers**, and many **inspiring tales from South African chemistry laboratories!**

⊖ All of this in the backdrop of Africa's friendliest capital city where you can enjoy the hospitality of the **Rainbow Nation!** Register now @ <http://www.saci.co.za/SACI2018>



 F Stoddart	 L Ackermann	 Z Tshentu	 D Bezuidenhout	 M Pecuh	
 O Asojo	 M Alzee	 L Pilcher	 H Drummond	 R Hanson	 H Pasch

3. And a poster.

43RD SACI NATIONAL CONVENTION

DATE: 2 - 7 DECEMBER 2018
VENUE: CSIR - ICC PRETORIA, RSA

The South African Chemical Institute in partnership with the Department of Science and Technology and the City of Tshwane is proud to invite you to the 43rd National Convention of the South African Chemical Institute under the theme.

"Chemistry For a Sustainable African Economy"

The conference will cover Themes including but not limited to:

- All main fields of Chemistry
- Environmental Chemistry
- Green Chemistry
- Material Science
- Medicinal Chemistry
- Radiochemistry.

The list of plenary speakers include:
2016 Nobel Laureate, Prof Sir Fraser Stoddart and Influential World leader in Science, Prof Kelly Chibale.

Call for abstracts and online registration is now open

Early bird registration: 16 April 2018 to 15 August 2018
Deadline for abstract submission: 31st October 2018
All registration closes: 15th November 2018

To register, please logon to: <http://www.saci.co.za/SACI2018/index.html>

For more information please contact:
Dr RM Mampa (LOC Chair)
Email: richard.mampa@ul.ac.za
Tel: +27(15) 268 2334 or +27(83) 654 8312

Logos at the bottom include: University of Pretoria, University of Stellenbosch, University of Cape Town, University of Witwatersrand, CSIR, necsa, and City of Tshwane.

2.6 Workshop

The LOC has organised a workshop scheduled for Thursday titled “Introduction to Schrödinger’s drug discovery tools” by Craig Coel, Schrödinger Inc. The workshop is offered free of charge to the interested postgraduate students.

Dr RM Mampa
Chairperson North Section

KWAZULU-NATAL

Honours/BTech Symposium

The KZN Section organises the annual Honours/BTech Symposium. The event was held on Friday 20 October 2017 at the Durban University of Technology Hotel School. The event was organised by Dr Thishana Singh. It was attended by approximately 100 Honours/BTech students from across the province, including Durban University of Technology, University of KwaZulu-Natal, University of Zululand and Mangosuthu University of Technology. The event sees academics and students converging in one area to discuss employment, funding, research and developments within the field of chemistry.

The symposium caters for postgraduate students doing their Honours and Bachelor of Technology degrees. Students are given an opportunity to present their research to fellow students and academics. Top students that are studying chemistry are selected from each university. Students compete against each other by presenting their work.

Nine students, two from DUT, three from UniZulu, and two each from UKZN Westville and UKZN Pietermaritzburg campuses, presented their BTech/Honours research projects orally while another 10 students presented posters on their projects. Both the oral and poster presentations were adjudicated and prizes were awarded.

There were a total of 3 prizes in both the oral and poster categories, each. The winners are listed below together with their respective institution and the title of their topic. At the same prize giving the James Moir medal was awarded to the DUT candidate, Miss T. Cooper.

Oral Presentations:

1st prize- Jeanette van Rooyen (UKZN-PMB) The Synthesis and Characterization of Heteroleptic Copper(II) Anti-Cancer Agents.

2nd prize- Gilleen Fraser (UKZN-Westville) The synthesis, characterisation, and bio-evaluation of four novel quinoline-chalcone hybrids.

3rd prize- Derric Baruani (DUT) Enantioselective detection of L-/D-tyrosine using Glassy Carbon Electrode (GCE) functionalized with graphene oxide (GO), gold nanoparticles (AuNPs) and human serum albumin (HSA), by electrochemical methods.

Poster Presentations:

1st prize- Selene Naidoo (DUT) A quantitative determination of the amount of sugar in fruit jams produced in South Africa.

2nd prize- A D Muntswu (UKZN-PMB) Reactions of polyphenols with hypochlorous acid.

3rd prize- LLR Mphahlele (UKZN-PMB) Synthesis and substitution kinetics of Pd(II) complexes.



Front row: Profs. Werner van Zyl (KZN SACI Chair) and Vincent Nyamori (SACI President).
Back row from left to right: AD Muntswu (UKZN-PMB), Jeanette van Rooyen (UKZN-PMB), LLR Mphahlele (UKZN-PMB), Derric Baruani (DUT), Selene Naidoo (DUT), Gillean Fraser (UKZN-Westville)



Miss T. Cooper (DUT) receives the James Moir Medal from the SACI President, Prof. Vincent Nyamori.

The cash prizes were kindly sponsored by the Royal Society of Chemistry (Northern Section), and the flashdrives by the DUT Faculty of Applied Science. We would like to thank them for their generous assistance with sponsorship for this event.

KZN Region Lunch & Awards Ceremony and SACI KZN Section AGM

The KZN Region Lunch & Awards Ceremony and SACI KZN Section AGM was held on 6 December 2017. All KZN SACI and RSC members were invited to a lunch and awards ceremony at the School of Chemistry and Physics at the University of KwaZulu-Natal, Westville Campus.

The proceedings kicked off at 11 am when Professor Bice Martincigh gave her Merck Award Lecture, entitled “Mineral Sunscreens: Are they all they are made out to be?” The Merck award is made to the

senior author of a paper published in the South African Journal of Chemistry, adjudged to have made the most significant contribution (most citations) to a specific field of chemistry.

This was followed by the awards ceremony. Mr Eric Njogu was awarded the SACI Postgraduate Award (formerly the Sasol Postgraduate Medal) for 2017 for his innovation, independence, and enterprise during her postgraduate studies.

Prior to lunch, the AGM was held. The KZN portfolio committee remained unchanged. Approximately 41 members of both SACI and the RSC attended the event and had a very enjoyable lunch and time together.

End-of-year Magic Show

The annual Magic Show was held on Tuesday 28 November 2017 at the University of KwaZulu-Natal, Westville Campus in Durban. This event has been held in KZN for some 35 years and was started by the late Professor Mike Laing. His spectacular show was well known far and wide. When it first started it featured ladies being magically cut in half, Miss Rabbit popping out of a box and all kinds of extraordinary events.

This year the show was performed by the Three Magicians, who entertained both young and old with their chemical magic, bangs and smoke. They were ably assisted by the “real” magician, Mr Peter Warby, who kept the audience enthralled with his amazing tricks. Over 250 people attended the event. We were extremely pleased with the good attendance and the wonderful audience participation and enthusiasm.

The SACI KZN Section would like to thank the staff of the School of Chemistry and Physics.



The Three Magicians: Vincent Nyamori, Bernard Owaga, and Bice Martincigh, showing you can turn water into wine...and vice versa.



7th International Conference on Nanoscience and Nanotechnology in Africa

22 – 25 April 2018

Salt Rock

Final Report

The 7th International Conference on Nanoscience and Nanotechnology, NanoAfrica2018, was organised by the University of KwaZulu-Natal (UKZN), South Africa and held during 22–25 April 2018. The conference venue was the sought-after Salt Rock Hotel north of Durban. The conference was jointly organised by the South African National Nanotechnology Initiative (SANi).

The SANi President, Prof. Edward Nxumalo, welcomed the delegates, while the UKZN Vice-Chancellor, Dr Albert van Jaarsveld, opened the Ceremony, on behalf the new Science and Technology Minister, The Honourable Mmamoloko Kubayi-Ngubane, who had confirmed her attendance, but unfortunately could not avail herself at the last minute. The other dignitaries at the Opening Ceremony included Deputy Vice-Chancellor Research, Durban University of Technology, Prof. Sibusiso Moyo, Prof. Deresh Ramjugernath (DVC Research, UKZN) and Prof. Albert Modi (DVC AES, UKZN). Prof. Vincent Nyamori was the Conference Chair and he is also the President of the South African Chemical Institute, and the UKZN Nanotechnology Platform Coordinator, who hosted the event.

The NanoAfrica is a series of conferences that are held every two years and attract academics, researchers and engineers from universities, the private sector, industry, research councils and government structures with the common goal of engaging all South Africans who are involved in the exciting field of Nanotechnology and Nanoscience. This was a nationwide conference with some participants joining us from other continents, while a good number of the international delegates were from various countries in Africa and overseas. There were a total of 183 delegates representing many universities in South Africa, as well as a number of international delegates from the UK, Brazil, USA, Ghana, Cameroon and Kenya, amongst others.

The NanoAfrica 2018 was a three-day conference which covered all aspects of nanoscience and advancement of nanotechnology in various applications. The meeting was aligned with some of the objectives of the National Nanotechnology Strategy, the 10-year Innovation Plan of the DST and the National System of Innovation (NSI) while showcasing the development of human capital in nanotechnology and nanoscience.

The NanoAfrica2018 conference focussed on the frontline areas of Nanoscience and Nanotechnology, including:

Synthesis and Characterization of Nanomaterials
Nanochemistry and Nanophysics
Nanomaterials for Water Purification
Nanomaterials for Health and Bio-applications
Nanomaterials for Energy Applications
Fabrication of Nanosystems for Sensing, Diagnostics, Imaging and Electronic Applications
Risk Assessment of Nanomaterials
Nanocommercialization

The scientific programme was excellent and the Local Organising Committee secured **5 plenary speakers:**

Professor **Girish Kale**, Institute for Materials Research, School of Chemical and Process Engineering, The University of Leeds, United Kingdom

Professor **Neil Coville**, School of Chemistry, University of the Witwatersrand, Johannesburg, South Africa

Professor **Aliasger (Ali) Salem**, College of Pharmacy, University of Iowa, Iowa City, USA

Professor **Ndeke Musee**, Department of Chemical Engineering, University of Pretoria, South Africa.

Dr **Nonhlanhla Kalebaila**, Drinking Water Treatment and Quality, Water Research Commission, South Africa

We were also fortunate to have **6 keynote speakers:**

Professor **Neerish Revaprasadu**, SARChI Chair, Department of Chemistry, University of Zululand

Professor **Viness Pillay**, SARChI Chair, School of Pharmacy, University of the Witwatersrand, Johannesburg

Professor **Kenneth I. Ozoemena**, School of Chemistry, University of the Witwatersrand, Johannesburg

Professor **Ivo A. Hümmelgen**, Departamento de Física, Universidade Federal do Paraná, Curitiba, Brazil

Professor **Francesco Petruccione**, SARChI Chair, School of Chemistry and Physics, University of KwaZulu-Natal, Durban

Professor **Ajay K Mishra**, Nanotechnology and Water Sustainability Research Unit, University of South Africa, Florida Science Campus

In addition to the plenary and keynote addresses, there were 40 oral presentations in 2 parallel sessions over 3 days. On Tuesday morning there was a 3rd parallel session, Nanocommercialization workshop, and was very well attended. It was organized by the UKZN InQubate team. Later that afternoon there was a second workshop organised by the Water Research Commission (WRC).

On Monday evening a very successful poster session was held where 74 posters were presented. Of these, 57 entries were from postgraduate students. These were judged and five poster prizes were awarded, sponsored by the RSC North Section.

The winners of these prizes were:

First prize: (R4000) Antimicrobial cell penetrating peptides (acpps) with bacterial cell specificity: pharmacophore modelling and QSAR by Faya M, Kalhapure R, Jadhav M, Dhumal Db Akamanchi K, Calvin O, and Govender T

Presenter: **Mbuso Faya**, University of KwaZulu-Natal

Second Prize: (R3000) Hydrothermal synthesis and characterization of zinc oxide nanorods by Kwanele Kunene, Myalowenkosi Sabela, Suvadhan Kanchia, Roman Viter, Donats Erts and Krishna Bisetty

Presenter: **Kwanele Kunene**, Durban University of Technology

Three runner-up third prizes (R1000 each):

In vitro evaluation of polyethylene glycol-gum acacia based hydrogel for controlled multidrug delivery of anticancer drugs by V.O Fasikua, B.A. Aderibigbeb, E.R. Sadikuc, Y. Lemmerd, S.J. Owonubi, S.S. Raye, E. Mukwevhoa

Presenter: **Victoria O. Fasikua**, North-West University

The effect of the selenium precursor on the synthesis and characterization of niobium diselenide (NbSe₂) nanomaterials by Tshwarela Kolokoto, N. Moloto

Presenter: **Tshwarela Kolokoto**, University of the Witwatersrand

Ab-initio study of the stability and electronic structure of beryllium and sulphur co-doped graphene by O. Olaniyan, R.E. Mapasha, M.J. Madito, A.A. Kahleed, E. Igumbor and N. Manyala

Presenter: **Okikiola Olaniyan**, University of Pretoria

There was also a wonderful social programme, on Sunday there was a welcome reception at the Salt Rock Country Club, on Monday there was a beach braai and on Tuesday a Gala Dinner.

Conferences such as these are always reliant on **sponsors**, and the LOC was grateful for the contributions from UKZN, DUT, Metrohm, Bruker, Hiden, SAASTA, SPECS, RSC North Section, Water Research Commission, Prestige Laboratories Supplies, UKZN InQubate, Tops! Superspar, and United Scientific SA cc. There were also seven **exhibitors**, namely PerkinElmer, Anton Paar, Bruker, SAASTA, Water Research Commission, Advanced Laboratory Solution and UKZN InQubate.

The conference provided a platform for local as well as international students, researchers, technologists and entrepreneurs to interact on the latest advances and imminent trends in this inter- and multi-disciplinary area of nanoscience and nanotechnology. The stimulating topics ranged from synthesis of advanced nanomaterials, their characterisation and novel properties, to cutting-edge applications of nanomaterials, bio-nanomaterials and composites, in various fields such as energy, water, health and the environment. Also a green nanotechnology section, which ensures and enhances the environmental sustainability, more efficient processes and provides a better alternative in livelihood, was of great interest. Also the one-day technical workshop on the commercialization of nanotechnologies in Africa, which was organized by UKZN's InQubate staff, was very well received and delegates were very excited about the experiences expressed by the various invited start-up companies.

In general, the standard of presentation was really exceptional and equally enjoyable. Everyone at the conference seemed to be very enthusiastic in presenting their work and that made the conference very pleasant.

The next NanoAfrica conference to be held in 2020 is to be organized by Mintek in Gauteng.



A group photograph of NanoAfrica 2018 delegates at Salt Rock, Country Club

Prof W van Zyl
Chairperson KZN Section

WESTERN CAPE

October 2017 **AGM and lecture**

The 75th SACI AGM (Western Cape division) was held on the 18 October 2017 in the de Beers building at Stellenbosch University. The AGM was attended by ca. 50 people (academic, professional and student members).

The chairperson, Prof. Willem van Otterlo, delivered the report on the activities of the past year and the financial report was presented too. A new Western Cape committee has been voted in with Nikoletta B. Báthori as chair, Robbie Luckay as secretary and Margaret Blackie as treasurer. These members would hold these positions for two years. Other members on the committee are: Gareth Arnott, Peter Mallon, Ivan Green, Delia Haynes, Willem van Otterlo and 3 student representatives from the Western Cape universities. The committee was extended by two new members, Denzil Beukes (UWC) and Clive Oliver (UCT) with the aim to expand our activities at their universities. The AGM ended at 17h15.

The new chair, Prof. Báthori then introduced the guest speaker, Prof. Mike Davies-Coleman from the University of the Western Cape. Prof. Davies-Coleman delivered a lecture entitled “Going to the ends of the earth in search of new chemistry” and guided the mesmerized audience to Marion Island in the Southern Ocean, Palau in the middle of the Pacific Ocean and Svalbard in the Arctic Circle, while highlighted the challenges and unique experiences associated with being an organic chemist at sea. The lecture finished at 18h30 and refreshments were served afterwards.

November 2017

RSC/SACI dinner of the Western Cape section- The dinner we still recovering from...

The annual joint RSC/SACI dinner of the Western Cape section was held on the 16th of November and hosted a record number of attendees (144!) from the four universities of the Western Cape.

We welcomed the James Moir medallists Ms Nichole Richardson (University of Cape Town) and Ms Jana Botha (Stellenbosch University) and congratulated for Ms Balungile Dzingwe (University of the Western Cape) and Ms Selena Orango Adewinogo (Cape Peninsula University of Technology), who were not able to attend the ceremony. A great applause was given to the SACI Post-graduate medal winner, Dr John Okombo from the University of Cape Town. Stellenbosch University was in the limelight in this year, as Prof Harald Pasch received the SACI Gold medal and Prof Pieter Steyn was elected as SACI Fellow. We also welcomed Dr Peter Scott, who joined SACI on 21 May 1974 – to acknowledge his 43 years support of the institute he was awarded lifetime membership. Our honorary guest at the dinner was Prof Michael Levitt, 2013 Chemistry Nobel laureate, who is well-known for his passion for helping the next generation of young chemists and promoting chemistry to the public.

We would like to thank Prof Alan Hutton (University of Cape Town) for organizing the event and being a truly entertaining Master of Ceremony. His work was eased by a charming and inspiring speech given by Dr John Woodland about the everyday joys of a chemist's life. Browsing over the many photographs of the dinner, undoubtedly this evening was one of those joyful moments in the lives of the Western Cape chemists!



From left to right: Prof Nikoletta Báthori (SACI WC Chair), Prof Harald Pasch (2017 SACI Gold Medal), Ms Jana Botha (2017 James Moir Medal-Stellenbosch), Prof Piet Steyn (SACI Fellow), Ms Nichole Richardson (2017 James Moir Medal-UCT), Dr John Okombo (2017 SACI Post-graduate medal-UCT), Dr Peter Scott (Lifetime Member) and Prof Peter Mallon (SACI Vice-President).



Everybody was ordering cheeeeeeese as a starter!

March 2018

Honours to the stars (by Margaret Blackie)

Dr Gareth Arnott (Stellenbosch University), Dr Margaret Blackie (Stellenbosch University) and Dr Clive Oliver (University of Cape Town) all currently serve on the SACI Western Cape committee. This photo was taken in the UCT departmental board room at a recent meeting. Twenty years ago, in 1998, these three were all in the same honours class at the University of Cape Town along with Dr Elise de Vries (Cape Peninsula University of Technology). In terms of providing academic staff to the Western Cape universities, the 1998 crop of BSc Honours graduates from UCT seems to have been a good vintage!



From left to right: Dr Clive Oliver (University of Cape Town), Dr Margaret Blackie and Dr Gareth Arnott (Stellenbosch University)

April 2018

SACI/RSC Western Cape Young Chemists' Symposium

The University of Cape Town was the proud host of this year's Young Chemists' Symposium jointly sponsored by the South African Chemical Institute Western Cape section and the Royal Society of Chemistry Southern Section. The symposium brought together postgraduate students and young researchers from UCT, University of the Western Cape (UWC), Cape Peninsula University of Technology (CPUT), and Stellenbosch University (SU). The students gave 9 flash, 4 oral and 26 poster presentations on their research which addressed the theme of the symposium, "*Chemistry without borders: how chemistry is increasingly present in all the fields that are fundamental for human life*".

The climax of the symposium was the panel discussion where four esteemed and accomplished chemists interacted and answered diverse questions related to chemistry, academia, industry, entrepreneurship and social/community philanthropy that were asked by the students. The UCT Career Service Centre also gave a talk to equip participants with requisite knowledge for the job market.

The organizers of the symposium are grateful to the SACI Western Cape, the RSC and the respective chemistry departments of the four universities for their support. We would also like to thank all the participants and attendees making the symposium a happy social event. Hoping to see you all at the 2019 YCS!

Contributors: Nolwazi Gcwensa, Jessica Nel and Godwin Dziwornu

SACI Western Cape and the RSC Southern Section would like to thank for the effort and time invested into the symposium by the three student organizers, Ms Nolwazi Gcwensa, Ms Jessica Nel and Mr Godwin Dziwornu and two staff members, Ms Deirdre Brooks and Dr Clive Oliver, who helped the students behind the scenes.



YC Symposium presenters: T. Tshivhidzo, D. Myburgh, E. Lwamba, C. Sammy, M. Botes, V. Munyai, A. Busa



YC Symposium presenters: M. Rondo, S. Magagula, T. Oliver, S. Sayed, U. Badeggi and D. Kusza



YC symposium: poster session



Panel members: Dr. Fanelwa Ajayi Ngece (UWC), Ms Gaynor Manuel (AKS Lining systems (Pty) Ltd.), Mrs Heidi Duveskog (Contextualise (Pty) Ltd.), and Prof Kelly Chibale (UCT).



Participants from the four universities of the Western Cape.



Organizers: Dr Clive Oliver, Ms Nolwazi Gwensa, Mr Godwin Dziwornu and Ms Jessica Nel.

April 2018

Van Otterlo delivers prestigious lecture (by Sophie Rees-Jones)

On the 10th April 2018, the RSC South Africa (Southern Section) held its 37th AGM, which was combined with the prestigious 19th Frank Warren Memorial Lecture at the University of Cape Town in the Chemistry Department. The guest speaker for this event was Professor Willem van Otterlo from the University of Stellenbosch, who was also the Chairperson of the SACI Western Cape section between 2015 and 2017. The event was well supported by staff and students from the academic institutions in the Western Cape. The lecture was very well received by the audience of around 50 people and enjoyed by all. Prof van Otterlo gave an overview of his research work, concentrating on his development of facile

syntheses of mimics of podophyllotoxin and rigidin, by way of multi-component reactions, and synthesis of substituted 6-oxa-allocolchicinoids by way of a biaryl coupling–intramolecular transacetalization route. After the public lecture all were invited to refreshments where further discussions with staff and students alike were held with Prof van Otterlo about his work presented at the Lecture.



Prof Nikoletta B. Báthori
Chairperson of SACI Western Cape

ANALYTICAL CHEMISTRY

The Analytical Chemistry Division Report from June 2017 July 2018

The analytical Division was involved as a partner in the organization of Analytika 2018 Conference with the other divisions. The meeting was held at Legend Golf and Safari Resort, Limpopo, South Africa from 22 to 25 July 2018. This conference was a major success with respect to the quality of presentations and the fact that students were focal point. The organizing committee invited the following distinguished researchers;

- i) Prof Graham Cooks
- ii) Prof Gary M. Hieftje
- iii) Prof Walter W Focke
- iv) Prof Charlotta Turner

The students and young researchers and opportunities to engage with all these senior scientists. The Analytical Division sponsored the first and second prizes for oral and poster presentation from the students.

In the next year the Analytical Divisions plans to organize workshops in other regions. Discussions are

at advanced stages with some of the instrumentation vendors and/or resource persons.

SACI 2018 National Convention

The Analytical Division will sponsor Conference Registration fees for 12 postgraduate with oral or posters accepted abstracts. The submitted abstracts will be evaluated by a panel of three.

Prof N Nindi
Chairperson Analytical Chemistry

CHEMICAL EDUCATION

The Chemical Education Division web page has been fully updated and has a smart new look with a new logo. Thanks to Laila Smith for help with this.

Prof Marissa Rollnick received the 2018 Distinguished Contribution to Science Education through Research Award from the National Association of Research and Science Training (NARST). This award is presented at the Annual International Conference but is bestowed only when a superior candidate is identified. It is given to recognize an individual who, through research over an extended period of time, has made outstanding and continuing contributions, provided notable leadership, and made a substantial impact in the area of science education.

Dr Lynne Pilcher, University of Pretoria, was the recipient of the SACI Chemical Education Medal in 2017.

The International Conference on Chemical Education, ICCE2018 took place in Sydney, Australia, 10-14 July 2018. There were seven delegates from South Africa (all women!), all of whom presented papers and posters. Prof Bette Davidowitz announced at the closing ceremony that the 2020 conference will take place in Cape Town. Preparations for this conference are already underway.



Prof H Drummond
Chairperson Chemical Education



THE CHROMATOGRAPHY DIVISION
of the South African Chemical Institute
PO Box 12096 Hatfield 0028 Pretoria

ANNUAL REPORT ON THE ACTIVITIES OF THE CHROMATOGRAPHY DIVISION FOR THE PERIOD MAY 2017 TO APRIL 2018

A) COMMITTEE and MEMBERSHIP:

Four committee meetings were held during the above period. The committee members are:

Chairperson:	Mrs. Wiana Louw
Immediate past Chairperson:	Dr. Magda Rössemann
Treasurer:	Mrs. Belinda Hickman Mosdell
Membership/Communications:	Dr. Yvette Naudé
Branding/Website:	Dr. Tyren Dodgen (Resigned in April 2018)
Minutes Secretary:	Ms. Vuyo Sitwana

Additional members: Prof. Patricia Forbes Mrs. Anita Botha, Dr. Charl Yeates, Mrs. Mamsy Motlanthe and Mrs. Hannalien Meyer.

Western Cape Representation

Chairperson:	Prof. André de Villiers
Secretary:	Dr. Gordon Shephard

Additional members: Prof. Ben Burger, Prof. Ivan Green, Brenda Marx, Iain Moodie, Dr. Marietjie Stander, Dr. Mare Vlok, Merrill Wicht and Wessel Kriek.

KwaZulu Natal Representation

Mr. Lawrence Mzukisi Madikizela

Limpopo Representaion

Nikita Tavengwa

There are currently over 500 members on the ChromSA mailing list.

B) ANNUAL GENERAL MEETING:

The AGM was held on 16 November 2017 at the Quantum Hall, NMISA and 64 people attended.

The guest speaker at the event was Prof Egmont Rohwer who presented an excellent talk with the title: "*Chemistry of smell: There is information in the air*"

C) AWARDS:

No nominations were received for the Chromatographer of the year award.

D) FINANCES:

The funds held by the National ChromSA division are >R400 000 (main income source for the period was the interest on the investment). ChromSA Western Cape has funds of >R251 000.

E) EVENTS ORGANISED:

Numerous events were organised for our members during the period under review:

- ChromSA and SAAMS hosted a GC-MS course, presented by Dr Peter Gorst-Allman on 23 and 24 August 2017 at the Willows Country Lodge in Lynnwood, Pretoria. The objective of the course was to teach analysts and students in practice how to use the systems correctly, how to develop methods successfully, and how to understand and interpret results. The course was aimed at relatively inexperienced users to develop their skills and was presented with a simple and easy to understand set of presentations. 25 Delegates attended the event and the course was rated very good to excellent by all the attendees.
- A ChromSA Postgraduate Student Seminar was hosted at the University of Pretoria on 8 September 2017. The quality of the presentations was exceptional with 43 delegates enjoying the diversity of Chromatography presentations. The prize winners in the different categories were:
 - Best PhD presentation:
 - 1st prize – Hein Portgieter
 - 2nd prize - Fiona Mumoki
 - Best MSc/Hons presentation:
 - 1st prize – Keabetswe Masike
 - 2nd prize - Dylan Zeiss
 - 3rd prize - Madelein Wooding

Refreshments were sponsored by Microsep.

- ChromSA Western Cape hosted a seminar in Stellenbosch on 24 October 2017, focusing on ion mobility spectrometry. The speakers at the event were Dr Andy Baker, Waters Corporation, USA; Prof Marina Rautenbach and Pieter Venter, Stellenbosch University.
- ChromSA and SACI KZN Section jointly organized the Postgraduate Research Colloquium held at Durban University of Technology on the 2nd of February 2018. Approximately 80 guests attended the event. The guest speaker at the event was Prof. Patricia Forbes. Eight Masters and seven PhD students presented their research

findings in all chemistry disciplines. During the lunch hour, eighteen students did poster presentations to showcase their research work. The prize winners in the different categories were:

- MSc Oral: Maxime Pillay
- MSc Poster: Robert Kumah
- PhD Oral: Paul Awolade
- PhD Poster: Ayomide Labulo
- Sinothando Mtolo and Lemien Thavarayan demonstrated more chromatographic applications in their presentations and received ChromSA T-shirts as gifts.

PerkinElmer financially supported the event and RCS (North Section) awarded the prizes.

- ChromSA members and partners, as the guests of the National Horseracing Authority, attended "A day at the Races" at Turffontein Racecourse on 7 April 2018. Dr Schalk de Kock gave a very informative lecture on the activities of the NHA, followed by a visit to their laboratory, a tour at the race course and watching the races. The day was well attended and generously sponsored by the NHA.

F) FUTURE EVENTS:

- The main event for 2018 is the ANALITIKA 2018 Conference that will take place from 22 – 25 July 2018 at the Legend Golf and Safari Resort, located in the Entabeni Safari Conservancy of the Waterberg.
- A short course titled 'An introduction to chromatographic analysis' will be presented by Prof Eric Reiner from the University of Toronto - Department of Chemistry on 30 – 31 July 2018 at the Grain Building in Pretoria.
- ChromSA is also participating in the SACI Convention from 2 – 7 December 2018.

G) CONCLUDING COMMENTS:

A special word of appreciation to the ChromSA committee members for their dedication and hard work and all the members who regularly attend our events, thank you for your support. We also want to express our sincere appreciation to our generous sponsors for their contributions during the year.

Wiana Louw

Chairperson, ChromSA

Date: May 2018

ENVIROMENTAL CHEMISTRY

World Environment Day Symposium held at the Science Building, District 6 Campus, Cape Peninsula University of Technology, Cape Town, 5-8 June 2018

The meeting was aimed at commemorating the World Environment Day (WED) by the Climate Change and Environment Research Focus Area of CPUT which is currently lead by Prof Beatrice Opeolu. The theme for this year's WED was "Beat Plastic Pollution". The talks focused on plastic pollution and its effects. The programme is shown below.

TUESDAY 5 JUNE 2018	
9:30 - 10:00	<i>Arrival and tea</i>
10:00 – 10:05	Introductions (<i>Prof Beatrice Opeolu</i>)
10:05- 10:10	Welcome (<i>Prof Olalekan Fatoki</i>)
10:10-11:40	Plastics everywhere: the good, the bad and the ugly (<i>Prof Jonathan Okonkwo</i>)
11:40-12:10	A source to sea approach in dealing with marine litter in South Africa (<i>Ms. Nitasha Baijnath-Pillay</i>)
12:10-12:40	Beach Clean-ups and Beyond (<i>Ms. Aaniyah Omardien</i>)
12:40- 13:00	<i>Light Lunch</i>
13:00-13:30	Occurrence and Endocrine-Disruptive Effects of Plastic-Derived Contaminants: The Phthalate Esters (PEs) Case Study (<i>Prof Augustine Arukwe</i>)
13:30-14:00	Plastics are everywhere: From our drinking water to our dream holiday destinations (<i>Ms. Karin Minnaar</i>)
14:00-14:30	Plastic pollution and marine animal entanglements and mortalities (<i>Prof Kenneth Findlay</i>)
14:30- 14:35	Vote of thanks (<i>Prof Joseph Kioko</i>)
14:35	<i>Closing</i>

Wednesday 6 June, 2018

Plastic Clean-up Activity- District 6 Area

Meeting Point: Science Building Car Park, District 6 Campus

Time: 11:00 am – 1:00 pm

Thursday 7 June, 2018

Visitors' interaction with staff and students

Time: 11:00 am – 1:00 pm

Friday 8 June, 2018

Convener: Prof Rene Pellissier

University Public Lecture/ Panel Discussion

Guest Lecturer- Prof Augustine Arukwe

Panel Members: Prof Augustine Arukwe (NTNU Trondheim, NORWAY), Ms. Nitasha Baijnath-Pillay (Department of Environmental Affairs), Prof Jonathan Okonkwo (TUT, Pretoria), Ms. Karin Minnaar (NWU, Potchefstroom) and Prof Kenneth Findlay (CPUT)

Prof OJ Okonkwo

Chair SACI Environmental Chemistry Division

PHYSICAL CHEMISTRY

Unfortunately, the Physical Chemistry Division has been inactive for a number of years. Plans, however, are afoot to revitalize this important Division of the Institute. We invite all members who would be willing to serve on the committee for this Division to contact the SACI Administrator, Mrs Laila Smith.



ElectrochemSA divisional report 2017-2018

Activities for reporting period:

The 4th International symposium on Electrochemistry took place on the 3-5 April 2018 hosted at the University of Johannesburg with Prof Omotayo Arotiba as the chairperson of the local organising committee. Prof Baker had served SACI and ElectrochemSA for the past 12 years as division chair and council member. The division had declared its intention to hold elections at the April 2018 meeting in Johannesburg to elect a new chairperson. The election took place on Wednesday 04 April at a special meeting convened for this purpose. The election was announced on the ElectrochemSA website in advance and the vote (on the day) took place by a show of hands.

Nominations:

Nominee 1: Prof Omotayo Arotiba (member in good standing)

Nominator: Dr Natasha Ross (member in good standing)

Secunder: Prof Patrick Ndunga (member in good standing)

Nominee response: Accepted

Nominee 2: Dr Natasha Ross (member in good standing)

Nominator: Mr Olwethu Ngwanya (member in good standing)

Secunder: Dr Naledi Ralei (member in good standing)

Nominee response: Accepted

Nominee 3: Prof Kenneth Ozoemena

Nominator: Mr Olwethu Ngwanya (member in good standing)

Secunder: Dr Naledi Ralei (member in good standing)

Nominee response: Declined

Total votes: 102

Nominee 1: 90%

The delegates voted overwhelmingly in support of Prof Omotayo Arotiba to lead the future activities of the ElectrochemSA community. We therefore request that Prof Arotiba be invited to serve on SACI council as the chairperson of the Electrochemistry division of SACI.

http://www.saci.co.za/ElectrochemSA/symposium_home.html

ElectrochemSA and its association with International Society of electrochemistry (ISE)

Regional representative:

I have served as ElectrochemSA chairperson from 2006 until 2018, continuously advancing the presence, practice and enrichment of Electrochemistry within the networks of SACI, the Royal Society of Chemistry South Africa as well as the Academy of Science of South Africa (ASSAf). In 2016 I was elected to represent South Africa and Africa as the regional representative of the International Society of Electrochemistry. Through the concerted efforts of Prof Kenneth Ozoemena (regional representative 2012-2016) and the ElectrochemSA community in South Africa we had won the bid to host the Annual General Meeting of International Society of Electrochemistry (ISE) here in South Africa for the first time in the history of the ISE. The 70th Annual Meeting of ISE will take place in Durban, South Africa (4-9 August 2019). This is the first time an electrochemistry meeting of this magnitude will be hosted in our country.

Honorary 1 day –symposium: Prof Andrew Crouch

Prof Crouch has been a longstanding member of ElectrochemSA and SACI and has contributed greatly to the development of electrochemistry research and teaching. As one of his former PhD students Prof Baker will be hosting an honorary symposium for Prof Crouch on 20th July 2018 and had approached the editorial team of South African Journal of Chemistry for a special issue contribution of selected papers from the symposium to be included in the 100 year celebration issue of SAJC. The electrochemistry division continues to support the symposium and has ensured that the event does not clash with any other events on the SACI calendar. The event will be managed as a closed call to all former students as well as a selected guest list to honour the contribution of this South African giant to transforming the electrochemistry landscape in South Africa.

Request for ElectrochemSA meeting date, 2019:

The ElectrochemSA community would like to table a request for 5th International symposium on Electrochemistry, University of the Western Cape, 11-14 August 2019, as a satellite meeting to the 70th Annual Meeting of ISE, taking place in Durban. There is a large representation of Electrochemistry practitioners in the Western Cape (academics, students and industry) who may not be able to travel to Durban to participate in the international conference due to the very high international registration fees and we would be honoured to host this meeting at UWC in order to provide an opportunity to interact with the Nobel prize winner (plenary speaker at ISE 2019) and a selection of invited guests who will be traveling to attend the Durban meeting. The secretariat of the ISE has also emphasised that extending the possibility of visiting more than one destination in South Africa, would enhance the international support of this prestigious meeting. Therefore we would like to request that SACI Council consider the request of the ElectrochemSA community in South Africa to host an independent satellite meeting in Cape Town,

Finally, I would like to express my sincere appreciation to the Electrochemistry community of South Africa, The South African Chemical Institute council and secretariat, for 12 years of supportive and productive capacity building, learning and sharing. I have served the Electrochemistry community with great joy and total commitment during this time and I look forward to working closely with the new chairperson Prof Arotiba in building the future of ElectrochemSA and SACI.

Prof. Priscilla G L Baker

**Chairperson: ElectrochemSA
2006-2018**

INORGANIC CHEMISTRY

Nothing to report

Prof TJ Egan
Chairperson Inorganic Chemistry

INDUSTRIAL CHEMISTRY

Most of the activity of the division has been centered on interaction with SAQA and the registration of Professional Chemists which is now approaching the one hundred mark. A spin off is that a substantial number are new members of SACI and this has the beneficial effect of swelling the membership. We also represent the professions on the CHIETA Board and as a member of the grants committee a say in allocation of funds to industrial projects.

Members are encouraged to give talks at the convention in December where we have a session in the programme to highlight the industry.

Dr M Booth
Chairperson Industrial Chemistry

MOLECULAR MODELLING

The annual meeting of the Molecular Modelling Special Interest Group (SIG) was held at the annual CHPC meeting on 4 December 2015 (15:00 - 1530) in Martells room of the Velmoré Hotel Estate, Pretoria.

The following issues were addressed:

1. Software requirements/inventory of software available on CHPC to members of the Molecular Modelling Division was discussed.
2. An open invitation was extended to members to follow the protocol for new software to be made available on the CHPC.
3. The members were informed that the hardware at CHPC was upgraded and the queuing problems users experienced have been addressed.
4. One of the aspects raised at 2016 meeting was the need for training. During 2017 a series of webinars for VASP training was presented by Dr David Santos Carballeda from Cardiff University. The CHPC was also thanked for the various workshops before and after the conference. These workshops were on the use of (access to) the CHPC, DL-POLY and Schrodinger software available on CHPC. Further training activities and needs were discussed. Members of the SIG that are available to help with training were identified.
5. Another aspect that was raised at 2016 meeting was the need for more students to present at CHPC conference. Prof. van Sittert and Prof. Govender assisted with compiling the scientific

programme for 2017 CHPC conference. In doing so they made sure that at least one student of each University attending the conference gave an oral presentation.

6. The members were informed of support changes at CHPC. The Helpdesk should be contacted first and then Dr Aton Lopis or Dr Krishna Govender at CHPC.
7. Members were requested to acknowledge CHPC in outputs and send copies of outputs to Dr Anton Lopis or Dr Krishna Govender at CHPC.

Dr C van Sittert
Chairperson Molecular Modelling

ORGANIC CHEMISTRY

The 2019 Frank Warren Conference is to be organised by the University of Kwazulu Natal headed up by Clinton Veale and Neil Koorbanally. Tentative dates have been identified between the 14th June to 7th July and will be finalised in due time. A possible venue in the Drakensburg area is being considered which no doubt will be a huge draw card. At this stage, the committee is considering organising a binational conference with the RSC similar to the BOOC meetings which have proved to be so successful in the past. It has the bonus of involving a wider source of talent and speakers to be identified to underscore such an important event in SACI's calendar of events.

In recent times it has become noticeable that many Divisions and Subject Sections, when organising their specialist conventions, liaise with strong international links. This is not only in my view, the best practice but essentially the only way forward for us in SA, as it provides Members and especially students with such excellent opportunities to form networks with their international partners for future interaction. Why this is also so rewarding is the fact that on many occasions the overseas partners will self-fund to a large extent thus making such liaisons financially sustainable.

In viewing the latest Membership numbers of the Organic Division (329) this seems very healthy. Of course this gives a reflection of Members having an interest in more than one division and that the number of Members who choose Organic Chemistry as their primary home is largely unknown. One supposes that this same phenomenon is equally applicable to all Divisions within SACI. It would thus be of interest to be able to note in the list which of the Members listed are primary Members of a particular Division by means of an Asterix.

Emeritus Professor Ivan R Green
Divisional Chairman of Organic Chemistry



Report for the period July 2017 to June 2018

1. Committee

Five committee meetings were held during this period:

3 July 2017,
8 August 2017,
18 October 2017,
27 February 2018,
22 May 2018.

The committee members are:

Ljiljana Marjanovic	(Chairperson)
Brendon Naicker	(Vice-chairperson)
Duncan Cromarty	(Immediate-past Chairperson)
Mike Britton	(SACI representative)
Schalk de Kock	(Treasurer)
Egmont Rohwer	(International Representative)
Maré Linsky	(Minute Secretary)
Caryn Hepburn	(Vendor Industry Representative)
Dwayne Koot	(Vendor Industry Representative)
Edwin Madala	(Metabolomics Representative)
Désirée Prevoo-Franzen	(Industry Representative)
Ireshyn Govender	(Industry Representative)
Stephan Woodborne	(Industry Representative)

Regional representatives are:

Johan Jordaan	North-West Province
Marietjie Stander	Western Cape
Gabre Kemp	Free State
Graeme Bradley	Eastern Cape

The term of office of the current committee ends in July 2019.

2. Membership

SAAMS has a membership of 355 members (June 2018) including students, analysts, researchers as well as instrument supplier representatives. The members are from different regions in Africa but also from Canada, Boston, Pakistan and Namibia. Apart from chemical laboratories and institutions, members come from other institutions such as veterinary, microbiology pharmaceutical, food and drugs, agricultural, medical etc. Approximately 30% of the members are registered members of SACI.

3. Finances

SAAMS' bank statements for the accounts (held at ABSA Bank Hatfield) ending 30 April 2018, have been submitted to SACI together with the audited statements for the previous period 2015-2016 and 2016-2017.

On the 30th April 2018 (end of the financial year), SAAMS' total assets amounted to R335 470.41. This was divided between a saving account R113,357.56 and Unit Trusts R222,112.85

One of the unit trust funds kept as a custody fund for combined seed money (SAAMS, ChromSA and SASS contributions) amounting to R51952.39 for the Analitika congress (to be held in July 2018) has been closed after the seed money have been transferred to the Analitika organizing secretariat (Carlamani).

Willie de Kock has been approved as the Auditor by the SAAMS committee members and the balance sheets and accounts for the 2018 are in the process of being prepared for the audit. Copy of the audited statement will be forwarded to SACI as soon as it is finalised.

4. **Functions and activities**

Annual General Meeting

SAAMS Annual general meeting is planned to take place at the Analitika 2018 conference at the Legends Golf and Safari Lodge on the 23rd July. Reflection on the SAAMS activities during the July 2017-July2018 period as well as the discussion on the plans for further growth of the organization are planned for this meeting. An invitation to attend the meeting has been sent to the members.

LC-MS course has been held at NMISA Quantum hall (CSIR Campus) from 19-22 February, 2018. Fifty two delegates attended the course with majority of them being relatively new mass spectrometry users. Vendors such as Microsep, Separations, Chemetrix and Anatech participated in the course through sponsorships and running of the educational vendor's sessions, well-received by the attendees. Carlamani Events was appointed for the admin duties and were found to be very efficient. Course was presented by SAAMS's own experts Prof Duncan Cromarty and Brendon Naicker

SAAMS/Waters Seminar was successfully held in Radisson Blu on the 26th October, 2017 with 27 delegates attending. Talks were held by Dr Andrew Baker titled "Exploring the complexity of wine using collisional cross section reaching past the limits of mass resolution" and Prof Alvaro Viljoen "The pivotal of LC-MS in solving the quality control conundrum of herbal products ". Microsep was thanked for the sponsorship of the event.

Analitika, 2018 (Legends Golf and safari Resort, RSA 22-15 July) –SAAMS is actively participating in the organization of the conference with 3 of its committee members serving on the Analitika organization committee. SAAMS has provided some of the seed money needed for the conference and sponsored one of the plenary speakers – internationally recognized mass spectrometry expert (Graham Cooks). SAAMS has also taken part (together with SASS) in the organization of the "Time of flight and distance of flight –mass spectrometry short course which is going to take place on the 26th July in Pretoria and is presented by Gary Hieftje (Distinguished Professor and Mann Chair of Chemistry at Indiana University in Bloomington)

IMSS 2018 (Florence, Italy, 26-31 August, 2018)

Prof Egmont Rohwer is to attend the IMSS and will represent SAAMS on the IMSF meeting scheduled before the symposium.

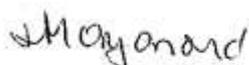
5. Website

The SAAMS website (with a new provider) has been revamped and it appears to be working well.

6. General

SAAMS to join SAAS in organizing the Young spectroscopic meeting 2018 (planned for November) in order to strengthen its activity amongst young ICP-MS university and industry researchers.

The committee is thanked for their time and hard work during the year.



Dr Ljiljana Marjanovic
Chairperson, SAAMS
Date: 8 July 2018

ACS

South African Chapter of the American Chemical Society Report (July 2017-July 2018)

The South African Chapter of the American Chemical Society had few activities in the last year.

Members of the South African Chemical Institute (SACI) meet with delegates of the American Chemical Society (ACS) in Arusha, Tanzania between 11 September 2017 and 15 September 2017 at the 3rd TCS International *Conference* and the 6th FASC *Congress* between 11–15 September 2017. Professor Vincent Nyamori, Professor Bice Martincigh and Professor Neil Coville of SACI met with the then president elect of the ACS Peter Dohout (Kansas State University) and Dr Bradley Miller (ACS, Chief International Officer and Director). A MOU between the two chemical societies was going to be signed. However, as the ACS is in the process of changing their relationships with international partners (including Africa) it was not signed.

One joint Faculty of Science (University of the Witwatersrand) and the American Chemical Society lecture was held on Monday 7 August 2017 where ACS member, Professor Gregory Weiss (University of California, Irvine) on making enzymes sing and dance. This was attended by about 70 staff and students from the Faculty of Science and we hosted a lunch afterwards.

A meeting of the Africa and Middle East Chapters of the ACS was held from 15-19 April 2018 and hosted at the American University of Sharjah in the United Arab Emirates. At this meeting both Professor Charles de Koning (Wits University) and Professor Willem van Otterlo (Stellenbosch University) received training on how to apply for an American Chemical Society Festival grant. This is a program geared for stimulating interest in school children in chemistry. They also had to present their ideas for a chemistry festival in the Stellenbosch and Johannesburg regions of South Africa. They have provisional been awarded \$3000 for such an event.

Prof CB de Koning
Chairperson ACS



**Royal Society of Chemistry
South Africa (North) Section
CHAIRMAN'S REPORT 2017**

1. Activities

If this report seems familiar when you read through it, that is because it was another year when the section undertook most of its regular projects which have become our staple activities over the past few years.

As usual, Sci Bono was the largest section beneficiary during 2017, receiving donations totalling R144K. This covered support for the Emasondosondo Chemistry bus, the chemistry laboratory, chemistry books, chemistry exhibits and 'chemistry in a suitcase'.

We again supported the KZN Science Centre. The amount donated increased substantially to R80K a reflection of our efforts to do more in KZN where a high proportion of our members are living. The money was used for outreach projects and teaching of educators. I met with the CEO, Faizel Dawjee, and one of their project managers, Kesigan, in November during their visit to Gauteng. Discussions on continued sponsorship of the centre were very productive and we received an open invitation for members of the RSC committee to visit the centre if any of them are in Durban.

The annual book donation to universities has become a highly anticipated project at the universities in our area of operation. This year we tried to support institutions which had not previously benefitted from a donation of RSC books. The universities selected this year were the Durban University of Technology, The Mangosuthu University of Technology (also in Durban) and the University of the Free State, Kwa Kwa campus.

Between them, they received donation of RSC books to the value of R53283 (after applying the 35% discount which the local section gets). As usual, the books were labelled to indicate that they had been donated by the local section and the books were purchased via JUTA, the official RSC agent in South Africa.

Once again, the section sponsored the prizes at three local SACI section Young Chemists events: SACI North hosted by Tshwane University of Technology on 3rd October, SACI Central hosted by the University of Johannesburg on 30th November and SACI KZN. I attended and judged at the SACI Central and SACI North events. The turnout at the SACI North event was excellent with over 120 people in attendance. However, it was disappointing to note that the attendance at the SACI Central event was limited to presenters and a few staff with only 30 people present.

Only one conference, CATSA (19-22nd Nov in Pilanesberg), was supported this year. Sponsorship was provided, for poster prizes (R5K) and to support students to attend the conference (R5K).

The section sponsored the special chemistry prizes at the Eskom Science Expo which was once again held at the Birchwood Hotel in Boksburg. Ian, Suzanne, Gareth and Amos were involved in judging the projects.

The joint RSC/SACI Central/SACI North was held at the Wanderers Club in Johannesburg for the third time. Support from local section members was disappointingly low with only six members and four partners/guests (including 40-year pin recipient Dr David Davies and his wife) attending. Thankfully the attendance was boosted by SACI members and partners which resulted in 48 people enjoying an excellent lunch. On this occasion, the speaker was Dr. Lucy Kemp who made a very interesting presentation on the Mabula ground hornbill project.

The joint RSC/SACI KZN function for members and guests was again held at UKZN. Nine RSC members/partners/guests attended the lunch.

One of the regular projects, the science day at Seabe High School in Mpumalanga, organised by Peter Malatji, did not take place (or if it did we weren't involved). All attempts to contact him were unsuccessful and it remains a mystery as to why he did not respond to my e-mails and messages.

Two new projects were undertaken in order to utilise funds which weren't spent on budgeted projects. One of these was the sponsorship of the Wits Whizzbang project which aims to raise awareness of chemistry at schools and Wits University by the staging of chemistry shows.

The second was the sponsorship of the Unizulu Science Centre in Richards Bay, another of the many Science Centres located in our geographical area. I met the CEO of the centre, Derek Fish, at a function at Sci Bono and we started talking about ways in which we could help them with the promotion of chemistry. The project we ended up sponsoring was the printing of chemistry educational material which had been translated into isiZulu and to this end a donation of R25K was made. We have requested feedback on the efficacy of the material in assisting the learners to learn in their mother tongue.

The annual grant received from the RSC UK was the same as the previous year at R348 000. In addition we again received £400 (+/- R7200) of RSC promotional material (which was used for purchasing promotional pens) for use at section events. We also received R8866 in interest on our accounts. Expenditure for the 12 month period increased to a record R408 992, which was well above budget resulting in a net spend of R52126. This was in keeping with the aim of reducing funds in our accounts to a more manageable amount.

The section is still in a healthy financial state with cash assets for R116K at the end of December 2017. It is necessary to keep some funds in the account in order to pay for projects during the first half of the year before our grant is received from the UK. In recent years this has only been towards or after the middle of the year.

2. Membership

The latest membership figures available (August 2017) indicate that there has again been a rise in the number of members in the section. Once again, the biggest increase has come from the KZN regions where, in particular, UKZN has been encouraging staff and students to join the RSC. As of Aug 2017, the section had 131 members (29 Fellows, 49 members, 26 associate members and 27 affiliate members).

It remains a challenge to get more members interested and, better still, involved in the section's activities. Attendances at the annual member functions in Gauteng and KZN remain disappointingly low.

3. RSC International Steering Group, Africa Steering Group, PACN and RSC Networks

There has been little communication with the International Steering Group over the past year although we were asked to provide any issues for discussions which the Chairman, Tim Reynolds, was going to have with the RSC UK office.

In terms of the African Regional Steering Group, I was elected as Chairman in February 2017 but I am still trying to find out what the next step in the process will be. Therefore, there has been no activity from this group over the past year. We have also had little or no interaction with the Pan African Chemistry Network whose focus remains firmly on East and West Africa.

We have had some interaction and discussions with members of the RSC Networks team. WE were asked to provide feedback on the proposed new “Rules for local sections”. We were also informed that in future funding for outreach projects should be applied for to the RSC Outreach section and not the RSC Networks section. We also received a general request that “local sections look critically at their costs”.

Rob White had a meeting with Fiona McMillan of the RSC Networks team in London and raised our concerns over the directions that the governance and funding issues were taking. I don't believe

4. General

The committee met at Wits four times during the year (24th Apr, 5th Jun, 7th Aug and 16th Oct). Thanks to our Secretary, Andreas, for once gain supplying the venue and organising the refreshments.

In addition to the six committee members who were elected at the AGM, two additional members were co-opted . They were Henrietta Langmi and Amos Bamidele. It was great to have some “new faces” on the committee as the other committee members have all been involved for many years.

A recent appeal put out by the RSC Networks team, resulted in eight members indicating an interest in getting involved in section activities which is fantastic news. It is especially so, since several of the long-serving committee members have indicated that they wish to step down. However, with one exception, they have agreed to stay on for another year to provide a smooth transition to the ‘new regime’.

The committee meetings were also attended by Tebogo Gule and Dr. More Chakane from Sci Bono and Professor Neil Coville from SACI and I would like to thank them for their commitment which they have to our excellent partnerships with Sci Bono and SACI respectively.

I wish to offer my sincere thanks all the committee members for their input into section activities:

- to our Secretary, Andreas, for keeping records of our meetings and sending out emails to the members.
- to our Treasurer, Suzanne, for keeping impeccable financial records as usual and for making payments timeously.
- to the other committee members, Gareth, Mike and Rob for their support and involvement.

Rob White has indicated that he wishes to step down from the committee having been a member of it for ten years. Rob will be retiring during 2018 and will be leaving South Africa. Despite his frequent overseas trips and absence from South Africa, Rob has been a stalwart on the committee during the past decade. His input into the section activities has been very valuable and his knowledge and expertise will be sadly missed. We wish him well in his retirement.

It has been another record year for the RSC SA North section with just under R364000 being spent on our various projects and activities. We will be applying to the RSC for a similar amount for 2018. However, we have been requested by the RSC to apply for the Sci Bono portion of the grant, which represents just over 40% of our annual grant, from the RSC Outreach committee, rather than from the Networks department. This represents a major change and we will have to see if we will still receive the same financial assistance in 2018.

The coming year promises to be one of transition as we welcome new members on to the committee and the long-serving members start to bow out but not before passing on as much of their knowledge of RSC

activities as possible. Committee meetings will also present a new challenge not just because we will have far more committee members involved but because many of them are not located in Gauteng and therefore be unable to attend meetings in person. We will thus be looking at technology to address this issue and to try to make our meetings as inclusive as possible.

Ian M Bratt (Dr.)
Chairman 11th February 2018



Green chemistry continues to grow and diversify in South Africa, and SACI continues to play a role in promoting the responsible use of chemistry in innovation and industrial growth. The membership of the division has grown to its highest number yet with over 150 members, many of whom are actively applying the principles of sustainability and green chemistry in the research, teaching and application.

This year, in preparation for the SACI National Convention, we ran a competition to identify the best green chemistry research in South Africa in order to be able to showcase this research at the Convention. The response has been disappointing, and that reflects more on the limited marketing of the competition, than on the credibility of the research! Nonetheless, I hope that we will be able to make good use of the opportunity afforded by the Convention to increase conversation around sustainability and green chemistry and to highlight the good research in this field in South Africa.

The highlight of the last year for Green Chemistry has been the participation in the NCPC Green Chemistry awareness raising workshop at the CSIR campus in Pretoria in April. There were several SACI members who took part, including Dean Brady and Moira Bode (Wits), Kevin Wellington and Vongani Chauke (CSIR), and several others at three different locations via video. We took the opportunity to represent SACI Green Chemistry and establish connections with the National Cleaner Production team and the Chemical and Allied Industries regulations team to look at ways to make knowledge of green chemistry accessible through webinars and workshops.

Thanks to the ongoing work of the committee, and the excellent support from the SACI executive team (including Laila Smith).

Committee 2018

Rosa Klein (**Chair**)

Werner van Zyl (**Vice chair**)

Rui Krause (**Secretary**)

Vincent Nyamori (**Treasurer**)

Martin Onani

Philip Labuschagne (**Industrial Representative**)

Alu Tshavungwe (**Government rep**)

Dr Rosalyn Klein

Chairperson Green Chemistry



Committee

Chairperson: Dr Liezel van der Merwe (UP)

Immediate Past Chairperson/Website: Dr. Kobus Wagener (Necsa)

Treasurer: Dr Isbé van der Westhuizen (UP)

Secretary: Dr Liezel van der Merwe (UP)

Communication and membership: Mr. Benni Vilakazi (Necsa)

Instrument supplier representative: Mr Ross Burnham

Regional Representatives: Prof. Chris Woolard, Dr. Andrew Pienaar

Events 2017-2018

ThermSA was represented on the organising committee and participated in Analitika 2018 which was held in Limpopo, South Africa from 22 to 25 July 2018. Our plenary speaker was Prof Walter Focke from the University of Pretoria who presented an influential talk entitled “The power of thermal analysis in applied materials research”.

Knowledge dissemination

Newsletters or e-mail communication are sent to members and interested parties to ensure that local events such as conferences, webinars and training sessions are communicated, thereby further developing the field of thermal analysis in South Africa.

International Ties

We have established membership as an affiliated society of ICTAC (International Confederation of Thermal Analysis and Calorimetry) and will be represented at the ICTAC Council meeting and ESTAC conference to be held in Brasov, Romania from 26 to 30 August 2018. ThermSA is working with the Instituto Internacional de Análise Térmica in Brazil to develop thermal analysis competence in both these countries. Dr Andrew Pienaar has relocated to Mauritius and we hope to attract interest in ThermSA from thermal analysts in Mauritius.

Membership

ThermSA membership has been steadily increasing over the past 4 years. There are currently 60 members of SACI who are members of ThermSA. In addition there are 4 members who are not SACI members.

Dr L van der Merwe
Chairperson: ThermSA

Dr A Pienaar
Secretary: ThermSA

SACI STUDENT REPORT

SACI student members concerns are conveyed through the SACI council by the National Students Rep. I, the National Students Rep, who is seating at the presiding President Section, has just been appointed and have been in office for 1 month. During this month, the immediate focus has been to collect information about Sectional Students Reps across the country. This is a body that has been existing but dormant for some time, however we are aiming at reviving it and make it a channel for active interactions with students. The SACI Sectional Student Reps are going to be tasked to interact with the students at their respective areas and submit a report to the National Students Rep. The outcomes from the various meetings and tasks are going to be minuted for the sake of records, reporting and suggestive recommendations to the SACI council and its executive board. Hence, this report gives a representative summary of the progress and suggestions from the students across the country.

Progress to date

- Students committee
I was able to send messages across all institutions to forward names of the nominated Students Reps. The target was to set up a committee with Student Reps at each section. The challenge was to get all the names together as some of the sectional chairs did not respond timely. However, most of the student reps involved have been contacted. I would like to use this opportunity to appeal to the SACI sectional chairs to forward the names and contact details of their nominees.
- Student body duties
Now that the student body will be functional, we kindly request the Council to start pinning down some roles for the student body to be effective.
- Suggestion for effective communication amongst the student body
Depending on the resources and time, if possible, we humbly request a National student body meeting at the forthcoming SACI National Convention later this year. The platform will be in such a way that the students will be able to meet and exchange ideas effectively and possibly generate a summarized report which the National Rep will present to the SACI council.

Matters arising from student enquiries

- SACI student members are grateful for the conference and colloquiums, however, they also proposed that there should be more SACI activities that will encourage interaction and exchange of ideas rather than awaiting for the opportunities during the SACI National Convention.
- In some institutions the students suggested that there should be some relationship between the students and the industry such as industrial visits which can be organised for the benefit of young SACI members, students, to gain some exposure to the real chemistry world.
- There is need for active awareness in students. The students are not fully aware of their benefits as SACI members (even though this can be found in the SACI website), hence, they have since raised some concerns regarding their membership status whilst most discontinue membership subscription after getting jobs, they highlight that SACI is only good for boosting their CVs. In turn, this also negatively affects the overall number of students who join SACI as members.
- The students would like also to be catered for through an effective use of the social media platforms, e.g. Facebook, Twitter or Instagram, to showcase the students work, ideas and merits.

Thank you all.

Kudzai Mugadza

National SACI Student Representative 2018/9

FINANCIAL REPORT

The audited SACI accounts are available on request. The tables attached provide a summary of the Institute's financial affairs for 1st May 2017 to 30th April 2018.

Generally, SACI had a good financial year and the Institute came very close to breaking even for the first time in many years.

- Overall income for the year was 27.6% (R137K) above budget and 36.1% higher than the previous year. This was due to a 20% increase in membership fee income.
- In addition, there was a large increase (R14.9K; 84%) in PrChemSA fees.
- There were also good sales of merchandise and an increase in IUPAC income.
- The interest from the Marketlink account was also treated as income.
- The only disappointment was the fall in advertising revenue by R4.7K.
- Overall, expenditure was kept under good control finishing R10K (1.6%) below budget and only 3.6% higher than the previous financial year.
- The main under-budget expenditure items were: Journal expenses (R28K), Printing and stationery, (R5.5K), Travel and accommodation (R5.8K) and Medal functions (R5.0K).
- The main over-budget items were: Courier and postage (R3.3K) – Wits courier costs are very high; Salaries and wages (R2.3K) – small in % terms, Medals and medal prize money (R4.5K) and PrChemSA administration (R25.9K) - monies paid, but not budgeted for, to the Secretariat for additional PrChemSA work.
- Overall the Institute made a small operating loss of R3377 compared to a budgeted loss of R150.5K.

Investments are reviewed on a regular basis. The difficult market conditions have continued but no better alternatives are currently available. The portfolio showed a small growth during the period under review.

Conference income was similar to the previous year (R27.4K c.f. R25.9K) as the past year did not include a SACI convention which is the only conference which usually brings in a large amount of income.

In terms of the Budget for 2018/19, we are presenting a “balanced budget” for the first time in many years. Income is expected to increase by 5.7% driven by a 5.1% increase in membership fees and allowing for a modest increase in membership over the coming year.

Expenditure is budgeted to increase by 5.2% which is largely in line with inflation/CPI. Courier/postage costs have been reduced as have teleconference costs. Lower expenditure is also expected on merchandise for the coming year. A large increase has been allowed for Telkom Wi-Fi (Laila) as this is essentially a new cost item incurred only in the last month of the previous financial year.

Thanks must go Laila Smith for her day to day handling of the receipts and payments and the general handling of the SACI accounts. Without her, the SACI accounts would not be kept up to date and in such good order.

Dr Ian Bratt
Executive Treasurer

SOUTH AFRICAN CHEMICAL INSTITUTE FINANCES FOR THE PERIOD 1 MAY 2017 TO 30 April 2018

	2016-2017	2017-2018	2017-2018	2017-2018	2017-2018
Income	Actual	Actual	Budget	Actual/Budget	2017-18/2016-17
Membership Fees	R 403,172.66	R 528,110.00	R 440,000.00	120%	131%
PrChemSA annual and once off registration Fees	R 14,530.00	R 29,450.00	R 16,000.00	184%	203%
Journal income	R 5,370.16	R 4,166.06	R -	-	78%
IUPAC income	R 7,200.00	R 11,000.00	R 8,000.00	138%	153%
Unallocated Income	R 4,577.18	R -	R -	-	0%
Merchandise/Ties and Scarfs	R 2,400.00	R 8,750.00	R 2,500.00	350%	365%
Admin donation from conferences	R -	R 10,000.00	R -	-	-
Advertising income	R 24,350.00	R 19,700.00	R 26,000.00	76%	81%
Critical Skills Evaluation	R 4,000.00	R 6,600.00	R 4,000.00	165%	165%
Interest on Marketlink account	R -	R 15,737.25	R -	-	-
Total Income	R 465,600.00	R 633,513.31	R 496,500.00	128%	136%

Expenditure	Actual	Actual	Budget	Actual/Budget	2017-18/2016-17
Journal Expenses	R 82,308.97	R 61,822.80	R 90,000.00	69%	75%
Bank Charges	R 8,361.97	R 9,666.25	R 8,800.00	110%	116%
Computer/Software/Pastel/Internet	R 37,043.90	R 22,653.69	R 22,000.00	103%	61%
SAuC online submissions	R -	R 11,070.00	R 12,600.00	88%	-
Courier and Postage	R 1,067.45	R 3,540.77	R 1,250.00	295%	332%
Entertainment Expenses (Council/Exco Functions)	R 13,065.78	R 13,977.21	R 14,000.00	100%	107%
General Expenses	R 5,899.16	R 6,381.55	R 7,000.00	91%	108%
Printing, Stationery and Photocopying	R 16,578.42	R 9,449.57	R 15,000.00	63%	57%
Salaries and Wages incl. Wits 25% Administration fee	R 335,498.63	R 357,348.77	R 355,000.00	101%	107%
Telephone and Fax	R 6,170.25	R 6,291.08	R 7,000.00	90%	102%
Teleconference - Chorus Call	R 5,961.73	R 7,054.66	R 6,500.00	109%	118%
Travel and Accommodation	R 21,604.50	R 17,186.88	R 23,000.00	75%	80%
Presidents Travel	R -	R -	R -	-	-
Subscriptions (IUPAC/FASC/EBSCO/NSTF)	R 9,808.64	R 9,840.97	R 11,000.00	89%	100%
Auditors	R 9,500.00	R 11,525.00	R 10,000.00	115%	121%
Medal Prize Money and Minting of Medals	R 22,526.48	R 28,488.54	R 24,000.00	119%	126%
Medal Functions/Donations	R -	R -	R 5,000.00	0%	-
Rental	R 18,000.00	R 20,000.00	R 20,000.00	100%	111%
Merchandise	R 18,477.12	R 12,916.20	R 13,500.00	96%	70%
PrChemSA Administration	R -	R 25,900.00	R -	-	-
Telkom Wifi	R -	R 376.09	R -	-	-
Critical skills evaluation Prof Breet	R 1,400.00	R 1,400.00	R 1,400.00	100%	100%
Total Expenditure	R 613,273.00	R 636,890.03	R 647,000.00	98%	104%

Item	Actual	Actual	Budget	
Total Income	R 465,600.00	R 633,513.31	R 496,500.00	
Total Expenditure	R 613,273.00	R 636,890.03	R 647,000.00	
Balance	R -147,673.00	R -3,376.72	R -150,500.00	

SACI Admin Account			
Wits Admin account			R -5,842.95
Standard Bank Market Link Account			R 280,363.78
Standard Bank Cheque account			R 115,203.10
Total			R 389,723.93

Central Fund Account	Movement	Opening Balance	Total
Investec Equity Fund	R 30,007.43	R 439,339.14	R 469,346.57
Old Mutual	R 6,631.06	R 399,006.98	R 405,638.04
SIM General Equity Fund	R 10,548.10	R 399,428.48	R 409,976.58
Stanlib Property Income Fund	R -37,302.40	R 519,904.47	R 482,602.07
Total	R 9,884.19	R 1,757,679.07	R 1,767,563.26

Total Interest on investments	R 9,884.19
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Seed Monies and Loans	Loan	Total
ACS Division	R 10,000.00	R 10,000.00
Central	R 10,084.33	R 10,084.33
SACI2018	R 157,000.00	R 157,000.00
Total	R 177,084.33	

Profit Derived from Conferences	2014-2015	2015-2016	2016-2017	2017-2018
Total	R 4,995.00	R 296,081.00	R 25,865.64	R 27,382.63

Divisional Accounts not managed by SACI	Movement	Opening Balance	Total
ChromSA	R 11,254.66	R 400,104.77	R 411,359.43
Western Cape	R -126,682.54	R 131,582.54	R 4,900.00
SAAMS	R 27,280.76	R 344,346.74	R 371,627.50
Total			R 787,886.93

Divisions' Market Link Accounts managed by SACI	Movement	Opening Balance	Total
Inorganic Chemistry	R 117,039.36	R 63,274.08	R 180,313.44
Computational Chemistry	R -468.61	R 5,840.56	R 5,371.95
Chemical Education	R 26.65	R 1,129.45	R 1,156.10
Eastern Cape	R -2,309.79	R 118,902.28	R 116,592.49
Analytical Chemistry	R 12,521.62	R 249,913.54	R 262,435.16
Organic Chemistry	R 8,370.77	R 167,546.37	R 175,917.14
Kwazulu Natal	R -12,943.51	R 156,140.81	R 143,197.30
Electrochemistry	R 1,961.62	R 52,635.27	R 54,596.89
North	R -11,453.39	R 44,353.83	R 32,900.44
Central	R 5,916.84	R 974.53	R 6,891.37
Green Chemistry	R 3,167.01	R 84,331.33	R 87,498.34
ACS Chapter	R 115.50	R -4,893.95	R 5,009.45
ThermSA	R 985.87	R 26,252.02	R 27,237.89
Western Cape	R 6,447.38	R 113,609.54	R 120,056.92
Total	R 129,377.32	R 1,089,797.56	R 1,219,174.88

PRESIDENTS OF THE INSTITUTE

1916-1917	J S Jamieson	1958-1959	H A E McKenzie
1917-1918	R B Denison	1959-1960	G W Perold
1918-1919	J A Wilkinson	1960-1961	F L Warren
1919-1920	J McCrae	1961-1962	W S Rapson
1920-1921	J Lewis	1962-1963	F L Clark
1921-1922	G H Stanley	1963-1964	E F C H Rohwer
1922-1923	J Gray	1964-1965	L J le Roux
1923-1924	H H Green	1965-1966	R E Robinson
1924-1925	J Moir	1966-1967	V Pretorius
1925-1926	H H Dodds	1967-1968	M Lamchen
1926-1927	J A Wilkinson	1968-1969	M Mrost
1927-1928	B de C Marchand	1969-1970	P C Carman
1928-1929	C C Frye	1970-1971	P R C Cooke
1929-1930	M Rindl	1971-1972	J F Preston
1930-1931	F W Fox	1972-1973	F E Malherbe
1931-1932	A Harding Kloot	1973-1974	C F Garbers
1932-1933	H R Raikes	1974-1975	N Stutterheim
1933-1934	B van der Riet	1975-1976	S Goodman
1934-1935	J B Robertson	1976-1978	V C O Schuler
1935-1936	St C O Sinclair	1978-1979	D E A Rivett
1936-1937	J A McLachlan	1979-1980	A Goosen
1937-1938	T D Hall	1980-1981	R R Arndt
1938-1939	F J de Villiers	1981-1982	R O Perry
1939-1940	H J van Eck	1982-1984	C J H Schutte
1940-1941	F G Braithwaite	1984-1986	P Bloom
1941-1942	J P van Zyl	1986-1988	J R Bull
1942-1943	W F Barker	1988-1990	J D Bradley
1943-1944	P Kamerman	1990-1992	A M Heyns
1944-1945	J E Worsdale	1992-1994	M D Booth
1945-1946	T J Wilken Jordan	1994-1996	T M Letcher
1946-1947	E Taberner	1996-1998	E L J Breet
1947-1948	H L de Waal	1998-2000	C J Rademeyer
1948-1949	W H Dyson	2000-2001	B Rae
1949-1950	H J Koch	2001-2003	G E Jackson
1950-1951	P v d R Copeman	2003-2005	E Meintjies
1951-1952	L F Addis Smith	2005-2007	T A Ford
1952-1953	A J Petrick	2007-2009	N J Coville
1953-1954	L D C Bok	2009-2011	I R Green
1954-1955	S S Israelstam	2011-2013	J Darkwa
1955-1956	F W Hayes	2013-2015	S Lotz
1956-1957	F Hawke	2015-2017	B Martincigh
1957-1958	A L Abbot	2017-2019	V Nyamori

RECIPIENTS OF THE GOLD MEDAL OF THE INSTITUTE

1970	L H Ahrens	1993	R J Haines
1971	P C Carman	1994	A M Heyns
1972	S G Shuttleworth	1995	S E Drewes
1973	W S Rapson	1996	D Ferreira
1974	P E Rousseau	1997	N J Coville
1975	V Pretorius	1998	W McGill
1976	C van der Merwe Brink	1999	T M Letcher
1977	D G Roux	2000	M E Brown
1978	G J Stander	2001	J P Michael
1979	R E Robinson	2002	H G Raubenheimer
1980	C F Garbers	2003	L Nassimbeni
1981	P R Enslin	2004	B Burger
1982	GW Perold	2005	No Award
1983	J C A Boeyens	2006	T A Ford
1984	J R Bull	2007	P Kaye
1985	A M Stephen	2008	No Award
1986	M Peisach	2009	M R Caira
1987	P S Steyn	2010	No Award
1988	C W Holzapfel	2011	C J H Schutte
1989	No Award	2012	T Nyokong
1990	J G H du Preez	2013	B Klumperman
1991	No Award	2014	L J Barbour
1992	A Goosen	2015	H Marques
		2016	TJ Egan
		2017	H Pasch

RECIPIENTS OF THE RAIKES MEDAL

1961	P C Haaroff	1989	H M Marques
1962	A J de Koning	1990	C A Strydom
1963	No Award	1991	M D Adams
1964	No Award	1992	J H Potgieter
1965	No Award	1993	G H Verdoorn
1966	S E Drewes	1994	N V Jarvis
1967	W Robb	1995	M Raynor
1968	C H J Shutte	1996	No Award
1969	R A Basson	1997	No Award
1970	No Award	1998	No Award
1971	No Award	1999	K J Naidoo
1972	D P Botes	2000	M H S Gradwell
1973	R J Haines	2001	M J Mphahlele
1974	P S Steyn	2002	R I Stefan
1975	No Award	2003	No Award
1976	R D Hancock	2004	W A L van Otterlo
1977	G V Fazakerley	2005	No Award
1978	R van Eldik	2006	No Award
1979	K De Haas	2007	J R Zeevaart
1980	G J Mc Dougall	2008	O Q Munro
1981	T V Ashworth	2009	R Meijboom
1982	R L Paul	2010	M Fernandes
1983	No Award	2011	G Smith
1984	No Award	2012	H Tutu
1985	No Award	2013	E Strauss
1986	M O Albers	2014	A Lemmerer
1987	No Award	2015	AJ de Villiers
1988	No Award	2016	ZR Tshentu
		2017	DI Bezuidenhout

RECIPIENTS OF THE AECI MEDAL

1961	P R Enslin, L A Anderson and W T de Kock	1979	G M L Cragg
1962	F J Joubert and T Haylett	1980	J C A Boeyens
1963	O A Swanepoel	1981	E Singleton
1964	V Pretorius and P C van Berge	1982	C Pohlandt
1965	M Peisach and C O Poole	1983	J M Koekemoer and G J Lourens
1966	C v d M Brink, W Nel, G H J Rall, J C Weitz and K G R Pachler	1984	No Award
1967	M B Hanley, S C Churms and E C Leisegang	1985	R M A von Wandruszka
1968	G W Perold and H K L Hunt	1986	E Singleton
1969	J Turkstra, G B Behrens and W J de Wet	1987	A E Watson
1970	W J Engelbrecht and M J de Vries	1988	C W Holzapfel
1971	J G H du Preez	1989	T A Ford
1972	J A van den Berg	1990	E Singleton
1973	J C A Boeyens	1991	P P Coetzee
1974	T W Steele	1992	J R Bull
1975	A Goosen	1993	A Amman
1976	P C Carman	1994	N J Coville
1977	E F C Rohwer and J J Cruywagen	1995	J F van Staden
1978	F E W Strelow	1996	P P T Kaye
		1997	T A Ford
		1998	J M Anderson

RECIPIENTS OF THE MERCK MEDAL

2000	J F van Staden	2008	P P Coetzee
2001	G H P Roos	2009	C W van der Westhuizen
2002	N J Coville	2010	N J Coville
2003	J C A Boeyens	2011	R H Simoyi
2004	I Cukrowski	2012	D A Katskov
2005	B Staskun	2013	D D N'Da
2006	H M Marques	2014	J Conradie
2007	J J Pienaar	2015	NJ Coville
		2016	BS Martincigh
		2017	BS Martincigh

RECIPIENTS OF THE HENDRIK VAN ECK MEDAL

1983	A E Rupert	2000	No Award
1984	N Stutterheim	2001	No Award
1985	No Award	2002	P S Steyn
1986	No Award	2003	No Award
1987	No Award	2004	No Award
1988	No Award	2005	No Award
1989	No Award	2006	No Award
1990	No Award	2007	No Award
1991	C F Garbers	2008	No Award
1992	No Award	2009	No Award
1993	F E Malherbe	2010	No Award
1994	No Award	2011	No Award
1995	No Award	2012	No Award
1996	R R Arndt	2013	No Award
1997	No Award		
1998	No Award		
1999	No Award		

RECIPIENTS OF THE INDUSTRIAL CHEMISTRY MEDAL

1961	G E Mapstone	2003	No Award
1962	No Award	2004	K McIntosh
1963	No Award	2005	No Award
1994	A Geertsema	2006	No Award
1995	F Fisher	2007	No Award
1996	No Award	2008	No Award
1997	No Award	2009	No Award
1998	No Award	2010	No Award
1999	No Award	2011	J Dixon
2000	N Ravenscroft	2012	No Award
2001	T Grimmbacher	2013	No Award
2002	No Award		

RECIPIENTS OF THE MISCHA MROST (ANALYTICA) PRIZE

1977	J M Pratt	1996	G J Stander
1978	I R Leith	1997	J H Potgieter
1979	H J Hattingh	1998	No Award
1980	P Theron	1999	P Apps
1981	J Zlotnick	2000	N J Coville
1982	G L Moore	2001	E W Neuse
1983	M F Dutton	2002	No Award
1984	No Award	2003	S S Potgieter
1985	R Osborne	2004	No Award
1986	G L Moore	2005	P W Lotz
1987	M A B Pougnet and M A E Wandt	2006	No Award
1988	S Parris	2007	No Award
1989	T M Letcher	2008	No Award
1990	M A B Pougnet	2009	No Award
1991	C Pohlandt-Watson and E A Jones	2010	No Award
1992	D Gravett and L Salter	2011	No Award
1993	No Award	2012	No Award
1994	No Award	2013	No Award
1995	M J Laing		

RECIPIENTS OF SASOL POST-GRADUATE MEDAL

- 1994 J J Nair, O Q Munro, P G Mountford, M H S Gradwell
1995 B G Taverner, J L Scott, S L Roberts, P Mason
1997 J A Ferreira, J du Toit, V Sewram, D Bessarabov, A Horne
1998 M A Hearshaw, W A L van Otterlo, J J C Erasmus, H A Mahomed, J J C Grove
1999 H van Rensburg, M A Fernandes, G Cripps
2000 S Otto, A Rousseau
2001 K Kaschula, W van Rensburg, K Blann
2002 H de Bod, M Onani, C B Perry, D Webber
2003 L Mpholle, K Barnes, C Gray
2004 A Landman, E E Mmutlane, T le Roex, M Shezi
2005 C Pelly, N Govender
2006 A Lemmerer, J N Zimba, M Lawton
2007 G Morgans
2008 S D Mhlanga, K de Villiers, S Hadebe, M Shaw
2009 S Pelly, C B Barnett, G A Boyle, T I Nkambule
2010 D Bezuidenhout, E Nxumalo
2011 W Motswainyana, O Onajole, D Cruishcank, A Shaikjee, R Wamsley
2012 T Chetty, CF Zipp D, Kuter
2013 D Ondigo, M Maubane, N Njuguna, H Wahl
2014 A S Ogunlaja, MM Johnson, KJ Wicht, C Obuah

RECIPIENTS OF SACI POST-GRADUATE MEDAL

- 2015 BP Camden Grover, WF Petersen, MN Pillay
2016 MW Dlamini, I Rogers, K Gopaul
2017 G Kleinhans, EM Njogu, CI Nkanga, TN Phaahlamohlaka, J Okombo

RECIPIENTS OF THE JAMES MOIR MEDAL

- 1999 J P K Reynhardt, A J de Villiers, R Best, K Thornell, S V Goodall, K Blann, U Naidoo, N I Harmse, D P de Carcenac, R Cock, J C Nel
- 2000 N Grootboom, E Lamprecht, Amaluleke, D Rautenbach, G L Natrass, A M Castille, W Gerber
- 2001 J van Rensburg, T Le Roex, X K Peter, J Taljaard, K Lobb, G Venter, A van Aswegen
- 2002 L Greyvenstein, D Patten, Y Baijnath, T Raasch, K Stern, M du Toit, S Botha, O Horwood
- 2003 V Buchanan, E T Borkum, E Erasmus, P Reddy, P Franklyn
- 2004 W Barnard, R Gessner, A Gordon, Z Hall, G Lloyd, L Rota
- 2005 D I Bezuidenhout, C Booyjzsen, J Coetzee, R Janse van Vuuren, Y Koen, C A Laing, E Marais, S Mohamed, M S Mokhadinyana, N Moodley, J Paraskevopoulos, T S Pentz
- 2006 T Paquet, I Rootman, N Rose, P D R Kptze, S Travis, N Miti, D Duma, V A Patterson, M van Rhyn
- 2007 L Loots, M Adendorf, S Botha, MW Smith, P Skillington, N E Hendricks, T Hughes, B Waldron, M N Kay, D J Brankin
- 2008 SA Herbert, KE Mason-Jones, N Silwana, C Reynolds, JI du Toit, A Manival, A Cullen, TR Madihlaba, B Truscott.
- 2009 E Hanekom, W Xu, S M Jing, C F Zipp, Y Nortje, K J Gillham, B Dzepina, P Nyamukamba, A C Conibear, A Ilchev, P I Tshoke, K Potgieter B Simpson
- 2010 C Eley, A Falch, I Grobler, K Hadje Georgiou, N Jijana, P Khalili, R Koen, L Komarsamy, H Maritz, W Petersen, A Pholosi, CA Renison, BK Sebogisi, P Sobantu, S Thompson
- 2011 M Lephoto, H Mungondori, R Pretorius, C Rassie, S Robinson, T Pieterse, A Sayed, K Wicht, M Ungerer
- 2012 L van der Westhuizen, L van der Wat, BB Davies, B Camden-Smith, J Coetzee, MB Ismail, T Gunther, JM Taylor, TN Phaahlamohlaka, I Clifford
- 2013 N Steyn, N Mvumvu, SF Dومان, R Hartzenberg, L Dralle, EH Kamanga, FM Amombo Noa, AJK Kupeta, M Mohale
- 2014 E Mamedov, S Raghunath, I Strydom, PL Pohl, M Dunn, T Saywood, NA Dare, JBML Smit, S Chohan
- 2015 HH Shiri, R Chitongo, OA Makgae, S De Kock, R Mente, S Magqazolo, RM Taylor, J Ferreira, M Visser, DE Chetty, S Pakade
- 2016 D Botes Myalo, B Steytler, KB Govender, J Leygonie, A Vicatos, J Lombard, L Swartzberg, AL Battison, K Nyamayaro, M Chizema
- 2017 V Tokoyi, NR Molupe, B Dzingwe, D Rademeyer, VD Ramasamy, S Lovisa W Duminy, J Botha, SE Orango Adewinogo, B Shaku, OMC Matlhaku, V Vermaak, GS Motloun, BL Davids, NI Richardson, T Cooper

RECIPIENTS OF THE CHEMICAL EDUCATION MEDAL

1993	M J Laing
1994	J Elsworth
1995	M Selvaratnam
1996	JD Bradley
1997	GC Gerrans
1998	No Award
1999	S J Nel
2000	P Huddle
2001	No Award
2002	MS Rollnick
2003	No Award
2004	B Davidowitz
2005	No Award
2006	G O M Onwu
2007	M White
2008	M Potgieter
2009	GV Green
2010	E Steenberg
2011	P Loyson
2012	J D Sewry
2013	No Award
2014	P Forbes
2015	E Mavhunga
2016	H Drummond
2017	LA Pilcher

RECIPIENTS OF THE SASOL

INNOVATOR OF THE YEAR AWARD

2002	No Award
2003	No Award
2004	M J Green
2005	I Smith
2006	No Award
2007	No Award
2008	No Award
2009	No Award
2010	No Award
2011	No Award
2012	No Award
2013	L J Barbour
2014	O Munro
2015	LB Klumperman
2016	No Award
2017	No Award

