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Inside this issue:

SACI NEWS

- | | | |
|-----------------------|----|---|
| SACI Office | 1 | The DST has embarked on a programme to review Chemistry and other sciences and create a South African Basic Sciences Network (SABSNET). A meeting was |
| Advertising | 2 | held at the iThemba Labs at Faure in the Western Cape on 26 September, 2014 |
| SACI scarfs and ties | | under the chairmanship of Dr Dannie Adams, a Director at the DST. SACI was |
| SACI News | 3 | represented at the event by Prof Ivan Green. The 1-day work-shop was set up to |
| Division News | 5 | discuss the desirability of an overarching type of framework to co-ordinate, develop |
| RSC News | 16 | and sustain the basic sciences. A document will be developed to incorporate items |
| African Journals | 17 | viz., structure, programme, funding, operational procedures among others by 31 st |
| CAIA Newsletter | | March, 2015. We will keep the members informed about this development as it may |
| Nobel prize Chemistry | 18 | have implications for Chemistry research and detaching in SA. |
| SACI Events | 19 | |
| Conference list | 22 | |
| Extra Events | | |
| SA Conferences | 23 | Also (i) note the webpage for SACI Inorg2015 is now open www.inorg2015.co.za |
| Vacancies | 26 | and (ii) information on the Coating for Africa event in May 2015 (SA conferences). |

Neil Coville

SACI office: Wits address

Below are listed the new details for our SACI Head Office

Laila Smith; SACI, School of Chemistry
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Advertising in the SACI newsletter

The newsletter provides a means of getting messages to our membership. Currently the SACI membership stands at over 1000. This newsletter thus provides a means of advertising employment opportunities, conferences and workshops, and even for companies/Universities to promote themselves. We encourage members to use the Newsletter for advertising purposes.

All SACI related conferences and events are advertised for free; if not a SACI related event there could be a small charge.

For advertising costs contact Laila at the SACI office

SACI scarves and ties



The SACI scarves (for women) and ties (for men) are now available from Laila in the SACI office. Cost of either is R100 (+ postage).

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SACI News 2014 Awards

Profiles on two more 2014 SACI award winners are given below

Sasol award: Chemistry Innovator of the Year Medal.



Orde Q. Munro. *Professor of Inorganic Chemistry and Academic Leader: School of Chemistry and Physics, University of KwaZulu-Natal, South Africa;* Professor Munro completed his Ph.D. in bioinorganic chemistry in the Department of Chemistry at WITS University (November 1995; supervised by Prof. Helder Marques) before joining Prof. Robert Scheidt's laboratory (University of Notre Dame, Indiana, USA) as a post-doctoral researcher working on the structural and physical chemistry of iron porphyrins. In 1997 he joined the Department of Chemistry at the University of Natal, where he continued to work on metalloporphyrins and other coordination compounds. He has received numerous awards over the years, including the National Research Foundation (NRF) President's Award (2000), the Vice Chancellor's Research Award (2007), and the Raikes Medal of the South African Chemical Institute (2008). In 2011/2012 Professor Munro held a Visiting Fulbright Scholarship at the University of Central Florida (College of Medicine) working with Prof. Mark Muller on delineating the mechanism of action of a new class of Au(III)-based anticancer compounds invented in his laboratory in South Africa. Prof. Munro holds a US patent on the invented metallodrugs and is the current recipient of the SASOL Chemistry Innovator of the Year Medal (2014).

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SACI News 2014 Awards

Raikes medal



Dr Andreas Lemmerer – is a Senior Lecturer in the School of Chemistry. Andreas received his PhD in 2007 at Wits, and after postdoctoral fellowships at the University of Cape Town and Ben-Gurion University of the Negev (Israel), was appointed as a Lecturer at Wits in November 2010. Andreas's research interests pertain to Solid State Organic Chemistry, especially the structure of drug complexes. Andreas has published 93 peer-reviewed publications, which have been cited 290 times. Andreas is a recipient of the Friedel Sellschop Award of the URC. Andreas recently became a NRF rated researcher, getting a Y1 rating. He is also the secretary of the South African North Section of the Royal Society of Chemistry and the Treasurer for the South African Chemical Institute in Gauteng. Andreas has taught several undergraduate and postgraduate courses and is on the School's Teaching and Learning Committee, as well as on the Health and Safety Committee.

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SACI Sections and Divisions

SACI symposium of Northern region (Gauteng)

The SACI symposium of Northern region (Gauteng) went well. A total of 120 people attended the Symposium. Dr Marile Landman from UP, Dr Edwin Mmutlane and Dr Kinfe from UJ, Dr Robert Tshikhudo from MINTEK and Dr Kabanda from North West were our special guests. We made promotional items as writing pad with all emblems and name tags. Lunch was served at the Cafeteria. Cold drinks with muffin and biscuits were also served in the afternoon. The University of Limpopo won 4 prizes. I am attaching the details of the students and their presentation titles. *Report by Dr Mary Thomas*



Winners at the SACI Student Symposium (23 Oct 2014) held at the University of Limpopo.

Honours Students: 1. Dima RS (UL): Fe(III)-MCM-41 Through Secondary Synthesis: Evaluation as Methylene Blue Adsorbent; 2. Mbokane BN (UL) Sister Zeolitic Framework Topologies in ZSM-5 and ZSM-11: Structural Characteristics; 3. Matabane DL (UL) ASSESSMENT OF THE LEVELS OF HEAVY METALS IN SOILS AND LEAFY VEGETABLES COLLECTED FROM MINING AREAS

Masters Students: 1. Monama W (UL) Hierarchical zeolites: Novel support for hydrocracking catalysts; 2. Maluleke MD (UNIVEN) SYNTHESIS AND FURTHER TRANSFORMATION OF ISOFLAVONE DERIVATIVES; 3. Adeyemi JO (UNIVEN) SYNTHESIS, CHARACTERIZATION AND *IN VITRO* STUDIES OF Fe (III) & Cu (II) COMPLEXES OF CHLOROQUINE AND ARTESUNATE ANTIMALARIA DRUGS

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SACI Sections and Divisions

SACI News Western Cape Division

The 72nd SACI AGM of the Western Cape division was held on the 18 September 2014 in the De Beers building at Stellenbosch University. There were 41 people in attendance and it was good to see that a large number of these people were postgraduate students. There were 17 SACI members present and apologies were received from a number of others who were unable to attend.

The chairperson of Western Cape Section, Peter Mallon, covered the agenda including a chairperson's report and a financial report of the section. The winners of various SACI awards in the Western Cape were also congratulated. This included the 2014 Gold Medal Winner Len Barbour. The SACI Western Cape committee consists of Peter Mallon as chair, Robbie Luckay as secretary and Margaret Blackie as treasurer. Other members on the committee are: Gareth Arnott, Willem van Otterlo, Ivan Green, Delia Haynes and 3 student representatives from the 3 Western Cape universities. This SACI committee together with the members of the RSC Southern Section Committee form the joint SACI/RSC coordination committee for the Western Cape.

The AGM was followed by Prof. Mallon introducing the 2013 Raikes Medal winner Prof. Erick Strauss. Prof Strauss was formally presented the Raikes Medal and certificate. Prof. Strauss then gave his acceptance lecture entitled "The ups and downs of pursuing coenzyme A biosynthesis as an antimicrobial drug target." His intriguing lecture was well received with many points for discussion afterwards.

Robbie Luckay



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SACI Sections and Divisions

Green Chemistry: Report on the 5th International IUPAC Conference on Green Chemistry, Elangeni Hotel, Durban (South Africa), 17-21 August 2014

The proposal that the **5th International IUPAC Conference on Green Chemistry** be held in South Africa was put forward at the meeting of the IUPAC (International Union of Pure and Applied Chemistry) Subcommittee on Green Chemistry held during the 4th Conference in Foz do Iguacu (Brazil), 25-29 August 2012. Prof. Liliana Mammino (who is a member of the Subcommittee and is based in South Africa) accepted gladly, fully sharing the Subcommittee's views about the importance of bringing this conference to South Africa and to the African continent. She was appointed the conference chairperson.

The **conference** was fully consistent with the outline of objectives, themes and approaches that had been anticipated in the opening page of the conference website, namely:

The main objective of the conference is to emphasise the importance of green chemistry for sustainable development, and to promote novel research and novel collaborations, by bringing together experts and interested parties from all over the world and from diverse bodies – from academia to industry and to governments. The conference will be a multidisciplinary event considering all the major areas of green chemistry, including green synthesis processes, catalysis, environmentally benign solvents, energy storage, biofuels, green chemistry education, policies, and many other interesting topics. Interfaces with other sciences and other research areas will be actively encouraged. Special attention will also be given to the roles of green chemistry in fast-growing economies and to the promotion of green chemistry in the African continent.

Cross-disciplinarity was favoured also by the presence of joint sessions with other IUPAC divisions or committees for selected themes – environmental chemistry, green chemistry education, and polymers. A session on sustainability and security, conducted by OPCW, contributed to linking scientific knowledge, education and policies with regard to the production and use of chemicals.

The roles of green chemistry in fast-growing economies were emphasised on several occasions, including the opening address by the Hon. Minister Naledi Pandor.

The presence of students and young specialists from different African countries can be considered a key contribution to the promotion of green chemistry in the African continent.

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The following **prizes** were awarded during the conference:

- ChemRAWN Prize for atmospheric and green chemistry, awarded by the IUPAC ChemRAWN Committee. The awardee presented a keynote lecture on her research.
- IUPAC prizes for the best three posters. The winners will be invited to submit their full papers for the conference proceedings (a special issue of *Pure and Applied Chemistry*).

SACI Sasol Innovator of the Year award for 2013. The awardee presented his award-winning lecture as a plenary lecture.

Two **pre-conference workshops** were conducted on Sunday, 17 August, one on a highly specialised theme of green chemistry, the other meant for students, as part of the attention to green chemistry education. The themes were the following: *Ultrasound and Microwave as Green Processing Techniques for Diverse Technological Applications* and *ACS Student Workshop on Green Chemistry*. An additional two-hour workshop was conducted during the conference: *OPCW Workshop: Choices for Chemists: Multiple Uses of Chemicals - A Hands-on Workshop*

International attendance was good, above all in view of the closeness (although not overlapping) of the conference with two other green chemistry events, one in the USA and one in Europe, and in view of the financial implications of travelling to South Africa from other continents. The **conference conduction** went smoothly. Presentations included six plenary lectures, 13 keynote lectures, 98 oral presentations and 74 posters. Attendance at the session was high throughout the conference, including the last day.

Participants expressed many positive comments, both during the conference and through e-mail messages afterwards. They expressed appreciation for the scientific part, for the social activities, for the friendly atmosphere throughout the conference, for the food, for the whole set-up. There has been no negative remark, either during the conference or afterwards.

The presence of the DST Minister at the opening ceremony was particularly appreciated by participants, as a testimonial of appreciation for the conference and of attention for green chemistry in South Africa.

The 2014 ChemRAWN IUPAC Prize for atmospheric and green chemistry was awarded to: Prof. Vânia G. Zuin, from the Federal University of São Carlos, Brazil. **IUPAC prizes for the best three posters presented by students** ;First prize: Ms Thokozani Xaba, from Vaal University of Technology, for her research on “The effect of water-soluble capping molecules in the ‘green’ synthesis of CdS nanoparticles using the (Z)-2-(pyrrolidin-2-ylidene)thiourea ligand”. Second prize: Mr Ntokozo Chamane, from University of Kwazulu Natal, for his research on “Carbon nanotube (CNT) supported platinum (Pt) and platinum-palladium (Pt-Pd) nanoparticles for selective hydrogenation”. Third prize: Mr Hazeeq Azman from Imperial College, London, for his research on “Rhodococcus catalyzed reaction in ionic liquid”. **The SACI Sasol Innovator of the Year award for 2013 was awarded to** Prof. Leonard J. Barbour, of the University of Stellenbosch at the event.

Conference presentations were made by delegates from 32 countries.

Report (abbreviated) by Bice Martincigh

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SACI Sections and Divisions

KwaZulu-Natal Section

The past few months have been a busy time for the KZN Section with a number of events taking place.

Public Lecture

On 21 July a very successful seminar entitled “Helium Crisis - what helium crisis? Changing GC carrier gas from helium to hydrogen” was held at the University of KwaZulu-Natal, School of Chemistry and Physics. The seminar was presented by Dr Ed Connor of Peak Scientific in Glasgow. It was attended by approximately 50 persons. Refreshments were sponsored by Peak Scientific Africa (Pty) Ltd and our sincere thanks go to Dean Milbank.

5th International IUPAC Conference on Green Chemistry

From 17-21 August the 5th International IUPAC Conference on Green Chemistry was held at the Elangeni Hotel on the Durban beachfront. The conference was very well attended with over 180 delegates. Congratulations to Professor Liliana Mammino (Conference Chair) and Dr Vincent Nyamori (Local Organising Committee Chair and Conference Vice-Chair) and their team for a very successful conference. The Conference was a multidisciplinary event considering all the major areas of Green Chemistry, including green synthesis processes, catalysis, environmentally benign solvents, energy storage, biofuels, Green Chemistry education, policies, and others. Interfaces with other sciences and other research areas were actively encouraged.

Special attention was given to the roles of Green Chemistry in fast-growing economies and to the promotion of it on the African continent. Presentations included six plenary, 13 keynote, 98 oral and 74 poster presentations. There were also three workshops. The opening ceremony was attended by various distinguished guests and dignitaries, including the Honourable Minister of Science and Technology Naledi Pandor, who gave the opening address.

During the Conference, poster prizes were awarded to students who had made a significant contribution in the field of Green Chemistry from the results they presented. Third prize went to Mr Hazeeq Azman from Imperial College, London for his work titled, “Rhodococcus catalyzed reaction in ionic liquid”. The second prize was awarded to Mr Ntokozo Chamane from the University of KwaZulu-Natal with the topic “Carbon nanotube (CNT) supported platinum (Pt) and platinum-palladium (Pt-Pd) nanoparticles for selective hydrogenation”, while first prize went to Ms Thokozani Xaba from Vaal University of Technology for her work titled, “The effect of water-soluble capping molecules in the ‘green’ synthesis of CdS nanoparticles using the (Z)-2-(pyrrolidin-2-ylidene)thiourea ligand.”

Professor Leonard Barbour of the University of Stellenbosch was awarded the SACI Sasol Innovator of the Year award for 2013 and presented his award-winning lecture titled “Understanding porosity in flexible metal-organic systems”. In addition, the IUPAC ChemRAWN 2014 Award went to Professor Vânia G. Zuin from the Federal University of São Carlos, Brazil.

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A number of dignitaries from various government structures, non-governmental institutions as well as local and international chemistry bodies were present at the Conference. These included: Professor Pietro Tundo (Chair of the Subcommittee on Green Chemistry of the International Union of Pure and Applied Chemistry), Dr Jonathan Forman (Science Policy Adviser of the Organisation for the Prohibition of Chemical Weapons), Dr Helen Driver (International Development Manager for Latin America and Africa of the Royal Society of Chemistry) and Dr Thomas Barton (President of the American Chemical Society).



From left: Dr Vincent Nyamori, Minister Naledi Pandor and Professor Deo Jaganyi of UKZN at the opening of the 5th International IUPAC Conference on Green Chemistry.

Postgraduate Colloquium

Annually the KZN Section organises the Postgraduate Colloquium. This year it was held on 23rd September at the Pietermaritzburg Campus of the University of KwaZulu-Natal. The event was very ably organised by the ChemBurg Student Society. It was attended by approximately 60 postgraduate students from the various local tertiary institutions. Eleven students orally presented their research projects while another six students presented posters on their projects. The oral and poster presentations were adjudicated and prizes were awarded.

The winners were:

Best MSc Oral Presentation: Ms Kudzai Mugadza (UKZN, Westville Campus)

Best PhD Oral Presentation: Ms Lucy Ombaka (UKZN, Westville Campus)






Best Poster: Ms Sandipa Bhikraj (UKZN, Pietermaritzburg Campus)

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At the event the 2014 James Moir Medal was awarded to Ms Sumayya Chohan from UKZN Pietermaritzburg Campus for achieving over 75% in her Honours degree.

		
<p>Sumayya Chohan receiving the James Moir Medal from the Chair of the SACI KZN Section, Professor Bice Martincigh.</p>	<p>Kudzai Mugadza receiving her award.</p>	<p>Lucy Ombaka receiving her award.</p>
		
<p>Sandipa Bhikraj receiving her award.</p>	<p>Attendees of the Postgraduate Colloquium.</p>	

We would like to thank the Royal Society of Chemistry (Northern Section) for generously providing the prizes for the event and Merck for sponsoring the lunch for the event.

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SASOL Innovator of the Year Award

At the event Professor Orde Munro of the School of Chemistry and Physics at UKZN was presented with his certificate for being awarded the Sasol Innovator of the Year Award. The award is made to a person whose scientific contributions in the field of chemistry or chemical technology during the year preceding the award are adjudged to be outstandingly innovative.

Professor Munro was awarded this prize based on the fact that he invented and patented a novel class of anticancer drug candidates. His work was also published in the prestigious Journal of the American Chemical Society. The paper describes the full story from compound invention and design to testing (anticancer screens) and mechanism elucidation (enzyme targeting and macromolecular simulations). This is a highly significant feat for any novel metallodrug candidate with a non-typical mechanism of action. To be exact, there are very few groups in the world who can achieve what Professor Munro and his group have achieved with their collaborators in the US in a short time in a research field not widely represented in South Africa.

The adjudicators of the award found Professor Munro's submission outstandingly innovative. They mentioned the fact that he was able to progress a number of promising cancer candidates through the stringent National Cancer Institute in Washington, which in itself attests to the quality of his well-designed innovative drug candidates.

Orde Munro is Professor of Inorganic Chemistry and also an Academic Leader in the School of Chemistry and Physics, Pietermaritzburg Campus. He received his B.Sc. Hons. degree in Chemistry in 1990 from the University of the Witwatersrand. He also completed his Ph.D. there in April 1996. His thesis work focused on physical and computational studies of heme-peptide model systems for heme proteins and other metalloporphyrins. He then joined Professor Robert Scheidt's laboratory at the University of Notre Dame in Indiana (Department of Chemistry & Biochemistry) in November 1995 and spent 18 months as a post-doctoral researcher working on the synthesis, characterization, X-ray structures, and molecular simulations of iron porphyrins and related macrocycles with unusual conformations. In 1997 he joined the Department of Chemistry at the University of Natal, where he continued to work on porphyrin and other pyrrole compounds as well as luminescent complexes of Pt(II) (the latter in collaboration with Prof. John Field). He has received numerous awards over the years at this institution, including the National Research Foundation (NRF) President's Award (2000), the Vice Chancellor's Research Award (2007), and the Raikes Medal of the South African Chemical Institute in 2008. In 2011/2012 Professor Munro held a Visiting Fulbright Scholarship at the University of Central Florida (College of Medicine) working with Prof. Mark Muller on delineating the mechanism of action of a new class of anticancer metallodrug compounds invented in his laboratory in South Africa for which he has been awarded SACI's prestigious "Sasol Innovator of the Year Award". Several companies (De Beers, Avitronics, SASOL, AuTEK BioMed) and the NRF have supported his research over the last decade. His current work is also indirectly supported by the NIH (USA) through their Developmental Therapeutics Program (DTP).

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Speaking in response to receiving the award, Munro said that being recognised for his discovery, patent and subsequent publication, all of which resulted from a struggle against many odds since starting the research in 2007, was wonderful. He expressed gratitude to AuTEK Biomed for their funding and to Dr Judy Coates for her support of his research proposal and students.

“Both the funding and her endless enthusiasm for our work allowed me to train 4 PhD students and 3 MSc students and allowed me to refocus my research efforts on metallodrug discovery. The project represented a very steep climb in order to switch gears from supramolecular and metalloporphyrin coordination chemistry to pharmaceutical research and innovation,” said Munro

“Navigating the IP landscape was especially challenging, particularly since a culture of innovation is not at all well-established at UKZN or elsewhere in the country. I had little guidance in the process of patenting the work and this was unbelievably stressful – kind of like jumping out of an aircraft as a first-time parachutist,” said Munro of the stressful process of completing this research.

The research undertaken was not without its personal challenges for Munro; in 2011, he suffered 2 strokes while on his Fulbright Scholarship sabbatical at the College of Medicine at the University of Central Florida.

“This was a major setback to elucidating the molecular mechanism of action of our lead drug candidate. Being able to recover from this health catastrophe to the point of being a functional and devoted parent to two daughters, a husband to my wife, and being able to teach chemistry and publish research again in top international journals, despite having permanent brain damage, is what some would call a miracle and others a marvel of how human cells and organs can adapt and recover from serious damage,” said Munro. Munro was also vocal in his appreciation for the PhD students working with him who contributed to the success of his research.

“I was very fortunate to have Drs Matthew and Kate Akerman, who have amazing synthetic skills, at the bench with me. It is indisputable that a hallmark of success in science is the ability to conduct experiments with the utmost accuracy and to be able to solve problems independently in the lab on a daily basis. Both Kate and Matthew have these traits and were pivotal to the success of the main research theme. It is one thing for me to come up with novel ideas and an innovative research project, but an entirely different process to bring these ideas to fruition. For that you need smart, hard-working students,” said Munro.

Munro also thanked key mentors, friends and colleagues for their input; in particular Professor Tim Egan of the University of Cape Town, Professor Helder Marques of the University of the Witwatersrand and Prof W. Robert Scheidt, retired from the University of Notre Dame in the USA. All three, said Munro, played pivotal roles in stirring his enjoyment of research through their impartation of key skills and encouragement of his development in independent, creative thinking around chemistry.

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SACI Sections and Divisions

Munro expressed gratitude to his wife, Tracey, for being his closest friend and for her support in the daunting world of academia

“As a scientist and prominent teacher in the community herself, my wife knows the daily grind and sacrifices one has to make to be successful in science and academia as a whole,” he said.

As Academic Leader in the School of Chemistry and Physics, Munro said he has been happy to contribute to the operation of the School and is proud of how well the management team of the School gets its business done efficiently.

“Our School is a pretty good place to conduct chemical research because of its extensive and modern equipment base of state-of-the-art instruments, which are crucial to characterizing novel compounds and materials,” said Munro. “Chemistry departments are notoriously expensive to run, but the University and College can be proud of the fact that their investment in equipment and skilled people can yield world-class results.”

Munro will present his Award Lecture based on his research at the next SACI National Convention to be held in KZN.



Professor Orde Munro receiving his certificate from Bice Martincigh.

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GC Seminar

On Monday, 29 September a very successful Gas Chromatography Seminar was held at the School of Chemistry and Physics of the University of KwaZulu-Natal, Westville Campus. We were very fortunate to have Jack Cochran, the Director of New Business and Technology at Restek Corporation in the USA, present his tips and techniques for gas chromatographic analyses. Over 50 participants attended the workshop and whether a novice or an old hand at GC everyone went away having learnt something. We are very grateful to SEP Scientific and Sue Petzer for sponsoring the workshop.



Jack Cochran of Restek Corporation together with the attendees of the GC Workshop.

Forthcoming Events

On Friday, 24th October we will be hosting the Honours Symposium at Durban University of Technology, where Hons and BTech students from the province will be presenting their research project work. In November members can look forward to the annual Magic Show. Further details will be publicised.

Report by Bice Martincigh

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RSC News

Royal Society of Chemistry: South African Roadshows:

Event summary

The Royal Society of Chemistry (RSC) is visiting South African universities to share our knowledge, contacts and experience within the chemical sciences.

We are passionate about chemistry and the RSC Roadshows are designed to provide support and information to help PHD students, Postdocs and and faculty members to:

Use the media to get their research noticed
Have their work published in high quality journals
Find the best career opportunities open to chemists
Maximise community networks
Utilise free chemistry resources such as ChemSpider
and much, much more....

Event contact information

Events Department; Royal Society of Chemistry; + 44 (0)1223 434048; events@rsc.org

17 November 2014 – [University of the Witwatersrand](#)

18 November 2014 – [University of Pretoria](#)

19 November 2014 – [University of KwaZulu-Natal](#)

21 November 2014 – [University of Cape Town](#)

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African Journals of Chemistry

South African Journal of Chemistry

This Journal is published electronically. The webpage is: <http://www.saci.co.za/> The South African Journal of Chemistry, published by the South African Chemical Institute, has been publishing high quality papers, in all fields of Chemistry for over 50 years. The Journal went fully electronic in 2000 and is freely available through open access online (http://reference.sabinet.co.za/sa_epublication/chem). It is a CAS-abstracted publication and is listed in Current Web Contents. It has retained its status as an accredited publication with the South African Department of Higher Education and Training.

African Journal of Pure and Applied Chemistry

Submit manuscripts: <http://ms.academicjournals.me>; Editorial office: ajpac@academicjournals.org

African Journal of Chemical Education

Enquiries and manuscripts should be addressed to the Editor-in-Chief: emaileic@faschem.org, PO Box 2305, Addis Ababa, Ethiopia. June 2014 edition published

Nanonews in South Africa

For those doing nanochemistry: SAASTA now produces a newsletter. nanonews@npep.co.za. Prof Janice Limson, NPEP NanoNews Editor

CAIA Newsletter

The latest issue of CAIA news i.e. Issue 139, August / September 2014, is available. Go to: www.caia.co.za or <http://www.caia.co.za/events.php?cat=n&pg=23> (events) or e-mail: caia@iafrica.com

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Nobel prize in Chemistry for 2014

3 Scientists win Nobel Prize for improving microscope resolution

A trio of scientists has been awarded the Nobel Prize in chemistry for work that improves microscope resolution. The work of Americans Eric Betzig and William Moerner, and German Stefan Hell has enabled scientists to see new things because of the greater resolution. "The work of the laureates has made it possible to study molecular processes in real time," said Sven Lidin, chairman of the Nobel Committee for Chemistry

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saci.chem@wits.ac.za

SACI and SACI related Conference events

SACI Inorg 2015. Sunday 28th June to Thursday 2nd July 2015, Grahamstown. (This is timed so that delegates can stay on for the National Arts Festival 2nd July to 12th July, if they so wish.) www.inorg2015.co.za

MAPET 2015

Materials, Analytical and Physical Electrochemistry Today



UNIVERSITY of the
WESTERN CAPE

3rd International Symposium on Electrochemistry

University of the Western Cape,
New Chemistry Building
Bellville, SOUTH AFRICA
26-28 May 2015



Organisers:

SensorLab, Chemistry Department, PB X17;
University of the Western Cape;
Bellville, 7535; Tel: 021 959 3051 / 3049; Fax: 021 959 1562
Inquiries: pbaker@uwc.ac.za

First Call

The 3rd International Symposium on Electrochemistry under the theme "Materials, Analytical and Physical Electrochemistry Today" (MAPET'15) will be hosted at the University of the Western Cape (Bellville, South Africa), from 26-28 May 2015. Traditionally the symposia bring together multi-disciplinary scientists focusing on aspects of their individual research that involve electrochemistry for analysis, characterization, synthesis or application and serve to foster extensive scientific interaction across disciplines in a very applied manner. The 3rd International Symposium on Electrochemistry, will take place in the New Chemistry Building, University of the Western Cape main campus, Bellville and is hosted by SensorLab, Chemistry department, (UWC).

The scientific programme, will cater for a formal exhibition and posters evening, on the 26 May 2015, where companies and service providers to the Materials, Analytical and Physical Chemistry disciplines will showcase equipment, prototypes and services. International participants and exhibitors will extend the reach of the MAPET'15 symposium and related activities.

Scientific Committee:

Prof Priscilla Baker (University of the Western Cape)
Dr Chinwe Ikpo (University of the Western Cape)
Prof Emmanuel Iwuhoa (University of the Western Cape)
Prof Kenneth Ozoemena (CSIR, Pretoria) *TBC*
Dr Natasha Ross (University of the Western Cape)
Dr Vernon Somerset (CSIR, Stellenbosch) *TBC*
Dr Tesfaye Waryo (University of the Western Cape)

Important Dates

Registration and abstract submission opens online: 01 October 2014
Abstract submission closes: 28 February 2015
Online Registration closes: 31 March 2015
Confirmation of Scientific programme: 15 April 2015
Symposium begins: 26 May 2015

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SACI and SACI related Conference events

BOCC 2014

Time is marching on and the BOCC conference organization is well on its way! The number of people registering is ticking over nicely – and a preliminary [timetable](#) is already available on the web! In terms of the “early bird” registration fees, please be reminded that payment must be received by the 1st August. After this date an increased registration fee will be levied (see [registration](#) fees). Please thus register asap (by logging onto the following [website](#) to facilitate the invoicing and payment process).

Willem van Otterlo

Save the date! 30 NOV TO 4 DEC 2014

SACI - ACS
Bi-national
Organic Chemistry
Conference 2014
STELLENBOSCH - SOUTH AFRICA



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<http://academic.sun.ac.za/FrankWarren/index.html>

Seven confirmed American speakers, as well as a broad selection
of South African plenary and invited lecturers

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SACI and SACI related Conference events

Others

- **MAM-14**, 23-27 November 2014, Emperors Palace, Johannesburg. Enquiries may be directed to the DST/Mintek NIC office at E-mail: secretariat@mam-14.com.

Themes covered in previous MAM series will be retained while there is opportunity for new areas to be explored

- **Pan Africa Chemistry Network Congress 2014** will take place from 30th November-2nd December 2014 at the UN Conference Centre in Addis Ababa, Ethiopia. The Congress will bring together over 150 participants from across Africa and the globe to discuss current research, new developments and crucial issues on the topic of Biodiversity and Global Challenges. <http://www.rsc.org/ConferencesAndEvents/RSCEvents/International/Africa/PACN-Congress-2014/index.asp>
- **Second SynGas Convention - Fuels and chemicals from synthesis gas: state of the art 2**, to be held in Cape Town (South Africa) in April 2015. The convention will be preceded by an Autumn School on 'Fundamental Aspects in Catalysis'. Confirmed invited speakers/lecturers include Prof Philippe Sautet (University of Lyon), Prof Hans Niemantsverdriet (TU Eindhoven), Prof Walter Leitner (RWTH Aachen) and Dr Cathy Dwyer (SASOL). Registration for both events as well as the submission of abstracts for oral and poster presentations is open now. The deadline has been extended to the 30th of November 2014. Please send you abstracts to syngasconvention@gmail.com. You will find more information as well as the template for abstracts on the website www.syngasconvention.com.

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Conference List

- **2nd Abuja International Conference on Science, Technology and Engineering**; 13-16 October, 2014, FCT Education Resource Center, Abuja-Nigeria; For more information or clarification on any aspect of the Conference, please contact the secretariat, Professor M.O.N. Obagah, Tel: +2348035128849 ; email: abujaconference@gmail.com
- **Chemical Society of Nigeria (CSN) and the FASC Congress 2015**; 21st - 25th September 2015; Transcorp Hilton Hotel or New Chelsea Hotel in Abuja, FCT, Nigeria.
- **IBSA Nano-Workshop 2014: Advanced Materials**, 1-2 Dec. 2014, UNESCO UNISA Africa Chair, South Africa www.amrs-southernafrica2014.com •Info: amrs-southernafrica@ilabs.ac.za
- **Regional AMRS Workshop-2014, 3-4 Dec. 2014**, UNESCO UNISA Africa Chair, South Africa www.amrs-southernafrica2014.com •Info: amrs-southernafrica@tlabs.ac.za
- **Catalysis Symposium of India**, CSMCRI Bhavnagar, January 2015. Dr S. Kannan , Organising Secretary. gd.yadav@ictmumbai.edu.in; gdyadav@yahoo.com; gdyadav@gmail.com
- **GOLD 2015**, Cardiff , Wales, 26th - 29th July 2015, please see the website for full details (<http://www.cardiff.ac.uk/GOLD2015>)

Information taken from CAIA newsletter

- Global Plastics Summit & Industry Workshops, 30 September- 02 October 2014. Chicago, IL USA. Email: chemweek@chembusiness-media.com
- 32nd Annual World Menthol Conference, 21-23 October 2014, Amsterdam, the Netherlands. Email: chemweek@chembusiness-media.com
- The Global Sustainable Chemistry & Engineering Event, 11-13 November 2014, Congress Center, Basel, Switzerland. Contact: Ecochem, Tel: +44 (0) 20 7492 1774; E-mail: info@ecochemex.com; www.ecochemex.com
- 9th Southern African Energy Efficiency Convention, “Energy Super Heroes – saving the world by saving Energy”, 12-13 November 2014, Emperors Palace, Johannesburg. Contact: Christi Bester, Tel: 018 293 1499; E-mail: admin@sae.org.za
- 32nd Annual World Menthol Conference, 21-23 October 2014, Amsterdam, the Netherlands. Email: chemweek@chembusiness-media.com
- The Global Sustainable Chemistry & Engineering Event, 11-13 November 2014, Congress Center, Basel, Switzerland. Contact: Ecochem, Tel: +44 (0) 20 7492 1774; E-mail: info@ecochemex.com;
- (MAM-14) International Symposium on Macro and Supramolecular Architectures and Materials, 23-27 November 2014, Emperors Palace Hotel Johannesburg, Website: www.mam-14.com
- Environmental and Sustainability Solutions climate change and carbon management course 25-27 November 2014 JHB; Email: marvna@ess-sustainability.co.za; Tel: 082 882 7700

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SA Conferences

- Coatings for Africa

Coatings for Africa 2015 Symposium and Expo, Sandton Convention Centre, 11-13 May 2015. <http://www.coatingsforafrica.org.za/>

Note to SACI members: Perhaps some of the members would like to take this opportunity to chair or speak at the event, where this would cover the delegate pass to the event and give them an extra incentive to be there. Please extend this invitation to your members and to the Federation of African Societies of Chemistry members. (Contact me if interested: neil.coville@wits.ac.za)

There are 3 days of conference each with different focus. I believe SACI would be relevant on each day
Day 1 will focus on coating and paint manufacturing standards and procedures as well as latest technologies from the raw material suppliers. Example of target audience will be chemists and formulators
Day 2 will focus on the coatings, paint and finished product by paint manufacturers. Target audience will be made up of architects, quantity surveyors, asset managers and the construction industry
Day 3 will focus on the coatings, paint and anti corrosion methods produced by industrial coatings manufacturers. Target audience will be engineers and quantity surveyors and the construction industry

- MAM-14

MAM-14



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Important dates

14 July 2014	Abstract submission deadline
30 July 2014	Notification of abstract acceptance
31 July 2014	Early Bird registration closes

For further information regarding the Conference visit: www.MAM-14.com

For information regarding Mintek, visit the websites: www.nic.ac.za or www.mintek.co.za



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SA Conferences

CATSA conference

CATALYSIS SOCIETY OF SOUTH AFRICA 25TH ANNUAL CONFERENCE
'SILVER ANNIVERSARY EVENT' **25**
NOVEMBER 9th -12th 2014
Hosted by the
University of the Witwatersrand



IMPORTANT DATES
Abstract submission opens : 17th June 2014
Early-bird registration starts : 17th June 2014
Abstract submission closes : 1st Sept 2014
Early-bird registration closes : 13th Sept 2014



Conference Venue: Saint George Hotel and
Conference Centre (near Pretoria)
www.stgeorgehotel.co.za



INVITED SPEAKER
PROF ULRIKE DIEBOLD
Institute of Applied Physics, University of Technology,
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CONFERENCE CHAIR Dr Tsenolo Lerotholi University of the Witwatersrand Tsenolo.Lerotholi@wits.ac.za	CONFERENCE INFORMATION Ms Colleen Coutts Colleen.Coutts@wits.ac.za	ABSTRACT SUBMISSION Visit: www.catsa.co.za
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