

Scientific Programme

The scientific programme begins on Sunday evening, with two SACI Gold Medal Lectures. The programme ends on Friday evening, with a third SACI Gold Medal Lecture.

Details regarding the social programme are given in the abstract book.

Special sessions

Publishing: Getting your article published – advice from the journals (Thursday morning)

Come join us for an informative session on publishing. Journal editors as well as reps from the various academic publishing houses will offer their advice and guidance through the publishing process.

Diversity and Inclusivity session: Breaking barriers in science (Thursday afternoon)

The chemistry community comprises people from diverse cultures with varied backgrounds and experiences. The South African Chemical Institute is committed to nurturing the values of diversity and inclusivity in the chemical sciences. SACI recognises that for the chemical sciences to prosper, we as a community need to actively '*break barriers in science*'. Talking to this theme, in this session, we will hear from several speakers (chaired by SACI CDI), followed by a general discussion lead by questions from our community. As the leading professional chemistry body in the country, we have a responsibility to promote inclusivity and improve diversity.

Societies Round Table: The IYBSSD and you (Friday morning)

In celebration of the International Year of Basic Sciences for Sustainable Development, please join a panel discussion involving representatives from SACI, the ACS, RSC, Commonwealth Chemistry and the African Crystallographic Association on what members of learned societies can do to contribute to sustainable development in Africa and how we can work together as learned societies to make sustainable development happen.

Sunday

Endler	
from 14h30	registration
17h30 – 18h00	Opening Ceremony <i>Chairs: Catharine Esterhuysen & Willem van Otterlo</i>
18h00 – 18h45	Gold Medal Lecture: Charles de Koning My name is Bond. Covalent carbon-carbon, carbon-oxygen and carbon-nitrogen bonds
18h45 – 19h30	Gold Medal Lecture: Fanie van Heerden Marvellous meanderings with natural product chemistry

Monday (morning)

09h00 - 10h00: **Natalie Stingelin**

Establishing structure/property interrelations for functional polymer systems using thermal analysis

Chair: Peter Mallon

10h00-10h30: TEA and move to sessions

	Endler ANALYTICAL	1st year Argon (2011) POLYMER	1st year Neon (1015) INORGANIC	de Beers 2003 ENVIRONMENTAL
	Green Sample preparation Chair: Mathew Nindi	Chair: Bert Klumperman	Incorporates the 19 th Inorg/Carman conference Chair: Caren Billing	Chemicals of emerging concern in environmental media Chair: Jonathan Okonkwo
10h30-11h10	Charlotta Turner Quantitative analysis of unknown compounds in complex samples – Challenges in extraction, chromatography and detection	Christian Pester Heterogeneous photoredox catalysis using polymer brush-functionalized glass beads	Gregory Smith Bioorganometallic strategies to target malaria	Bice Martincigh A week in the life of a wastewater treatment plant in Durban
11h10-11h30	Petra van der Merwe Comparison of GC-MS versus GC-ECD detection and derivatization methods for the analysis of haloacetic acids in drinking water	Ruvimbo Chagwedera Side reactions in the copolymerization of maleic anhydride and n-butyl vinyl ether	Monsuru Temitope Kelani Synthesis of n,n'-bipyridyl chiral-at-metal ruthenium complexes as catalysts for asymmetric hydrogenation of ketones	Bulelwa Batayi Per- and polyfluoroalkyl substances (PFASs) in source water and sediments from South Africa and estimated human exposure
11h30-11h50	Njabulo Mdluli Magnetic solid phase extraction based on Fe ₃ O ₄ @Al ₂ O ₃ adsorbant for simultaneous preconcentration of selected metal ions in fuel oils followed by ICP-OES determination	Lauren Ball PLA-b-SMA as an amphiphilic diblock copolymer for encapsulation of lipophilic cargo	Athi Welsh Rationally designed trimetallic ruthenium(II) 2-arylbenzimidazole complexes for chemotherapy and photodynamic therapy	Nondumiso Mofokeng Source apportionment, transport and fate of pollutants in the paper recycling chain: an analytical exploration of the South African recycled paper chain
11h50-12h10	Thrinshen Moodley The LC-MS/MS method development and validation of novel anti-malarials for preclinical evaluation	Ndivhuwo Shumbula 3D wound healing scaffolds made of nanoparticles embedded within biodegradable polymers	Andrew Swarts Highly efficient transfer hydrogenation of alkenes with ammonia borane mediated by a simple Ni(II) catalyst system	Babatunde Koiki Sulphate radical enhanced photoelectrochemical degradation of sulfamethoxazole on a fluorine doped tin oxide – copper(I) oxide photoanode
12h10-12h40	Patricia Forbes Turning green – Sustainable approaches to environmental sample preparation	Rueben Pfukwa Poly(N-vinylpyrrolidone) in advanced polymers for biomedical applications	Rob Luckay Separation of base metal ions using inner- and outer-sphere chemistry	Beatrice Opeolu Emerging contaminants- the bittersweet cocktails in water systems

12h40 – 14h00 | LUNCH

Monday (afternoon)

	Endler ANALYTICAL	1st year Argon (2011) POLYMER	1st year Neon (1015) INORGANIC	de Beers 2003 ENVIRONMENTAL
	Green Sample preparation Chair: André de Villiers		Incorporates the 19 th Inorg/Carman conference Chair: Zeni Tshentu	Risk and environmental assessment Chair: Bice Martincigh
14h00-14h30	Hlanganani Tutu Text mining for enhancing water quality data	Gestél Kuyler Novel terpolymers for detergent-free isolation of GPCRs	Alice Brink The Wonderland of Multinuclear Mn, Tc & Re Complexes in Small Molecule and Macromolecular Environments	Tlou Chokwe Neonicotinoids and insect growth regulators in honey: concentrations and exposure assessment under the framework of national residue monitoring program
14h30-14h50	Thamani Gondo Exploring the selectivity of carbon dioxide-ethanol-water ternary solvent mixtures in the extraction of antioxidative compounds from brown seaweed	Dan Molefe Heat stabilising flexible PVC with layered double hydroxide derivatives	Mametsi Maseme The chemistry of spin-coated Rhodium complexes supported on silanol-capped silicon wafers	Jeanri Stevens Obstacles to sustainable development in environmental commercial laboratories based in South Africa
14h50-15h10	Samuel Mgiba Analysis of organosulphur compounds in fuel oil samples using magnetic solid phase extraction based on Au-Fe ₃ O ₄ adsorbent and GC-HR-ToFM	David Sibanda Controlling the Multiporous Structure of Carbon Nanofibers Using Solution Aging Properties of PAN/PBA Block Copolymers	Malcolm Ndlovu Synthesis of novel ferrocenyl-benzimidazole derivatives and their evaluation as antiplasmodial agents	Karabo Mashiloane Occurrence of per and polyfluoroalkyl substances (PFASs) as contaminants of emerging concern (CEC) in tap water in South Africa
15h10-15h40 TEA				
15h40-16h00	Walter Mahlangu Quantitative analysis and health risk assessment of bisphenol A and its derivatives in selected canned food in South Africa, using a modified QuEChERS method coupled with gas chromatography-mass spectrometry	Zahn Stanvliet Responsivity analysis of smart nanoparticles using asymmetric flow field-flow fractionation	Larnelle Garnie Studying the growth of the digestive vacuole lumen in NF54 and Dd2 to aid in understanding the haem detoxification pathway in Plasmodium falciparum.	Sihle Mngadi Elemental composition and potential health risk of vegetable cultivated in residential area situated close to mine tailings
16h00-16h40	Titus Msagati Azole antifungal drugs in water and wastewater systems	Róża Szweda Stereocontrolled polymers with defined monomer sequence – how far are we from the structural precision of biomacromolecules?	Katherine de Villiers (Raikes Medal) The heme detoxification pathway as a target for antimalarial drug development	Nonhlanhla Kalebaila Managing chemicals within the environment – whose job is it anyway?

16h40-16h50 | move to poster flash sessions
16h50-17h20 | poster flash presentations

17h20-18h30 | POSTERS

This session is generously sponsored by Elsevier



Tuesday (morning)

09h00 - 10h00: **Tomislav Frišić:**

Exploring a Different Self-Assembly Space: Halogen Bonding to Carbon and Other Elements

Chair: Delia Haynes

10h00-10h30: TEA and move to sessions

	Endler ANALYTICAL	1st year Argon (2011) ACS SESSION	1st year Neon (1015) GREEN	de Beers 2003 PHYSICAL
	Electrochemistry / General <i>Chair: Omotayo Arotiba</i>	Drugs and devices for sustainable health <i>Chair: Kevin Naidoo</i>	<i>Chair: Alufelwi Tshavhungwe</i>	Incorporates the 19 th Inorg/Carman conference Development and understanding of materials <i>Chair: Melanie Rademeyer</i>
10h30-11h10	Priscilla Baker Frontiers of modern day electro-analysis – to infinity and beyond!	10h30 Opening ACS President Angela Wilson, Christopher LaPrade and Charles de Koning	Marcus Baumann Flow Photochemistry as a Greener Approach for the Synthesis of Drugs and Drug- Like Scaffolds	Christien Strydom Thermal Analysis as a crucial step during research on thermal processing of coal fines, waste biomass and solid waste material.
11h10-11h30	Babatope Ojo Coupling piezo-polarization effect on Ti/BaZrTiO ₃ anode with sonoelectro-Fenton and sonoelectrochemical oxidation for the mineralization of aspirin in wastewater.	10h50 Shoameng Wang Induced protein degradation as a strategy for the development of new medicines	Zodidi Obiechefu Comparative assessment of the physicochemical characteristics of Nano- hydroxyapatite extracted from fish scales and eggshells	Denis Moyo Isothermal TGA investigation of the sublimation of fipronil at polymer processing temperatures
11h30-11h50	Anzel Falch Nanostructured electrocatalysts for water electrolysis	11h35 Richard D. Cummings Using Chemical Glycobiology to Decipher the Glyco-Code of Human Diseases	Rosa Klein Curriculum change in chemistry	Vincent Nyamori Enhanced performance by heteroatom-doped reduced graphene oxide-TiO ₂ -based nanocomposites as photoanodes in dye- sensitised solar cells
11h50-12h10	Danica Moodley Construction of Functional Cobalt Phthalocyanine- Modified Electrodes for the Electrocatalytic Detection of Paraquat	12h20 Gerrit van der Klashorst The establishment of commercial manufacturing of API's in Africa	Olamide Daramola Encapsulation of Thiol-Co- Capped CdTe/CdSe/ZnSe Multi-Core-Shell QDs in Liposomes and Chitosan Nanoparticles; Comparative Bio-compatibility Studies Using HeLa and Vero Cells	Jean Lombard Calcium oxalate precipitation kinetics in mixed solvent media.
12h10-12h40	Krishna Bisetty Smart Electrochemical Sensing of Xylitol using a Combined Machine learning and Simulation approach	(LUNCH at 12h55)	Werner Van Zyl Nanocellulose and bacterial cellulose as a multifunctional green material	Vincent Smith Solid-state Chemistry at Rhodes University in the Context of Sustainable Physical Chemistry

12h40 – 14h00 | LUNCH

Tuesday (afternoon)

	Endler ANALYTICAL	1st year Argon (2011) ACS SESSION	1st year Neon (1015) GREEN	de Beers 2003 PHYSICAL
	Electrochemistry / General <i>Chair: Patricia Forbes</i>	Drugs and devices for sustainable health <i>Chair: Charles de Koning</i>	<i>Chair: Rosa Klein</i>	Incorporates the 19 th Inorg/Carman conference Computational approaches to sustainability <i>Chair: Vincent Nyamori</i>
14h00-14h30	Luke Chimuka Comparison of PSA to Moringa Oleifera seed protein as sorbent in QuEChERS: A Response Surface Methodology optimisation for extraction of some Endocrine Disrupting Chemicals in food	14h00 Amanda Bryant-Friedrich Creation of a nucleic acids' toolbox for the treatment and investigation of the etiology of disease	Ettigounder (Samy) Ponnusamy DOZN TM 2.0 - A Quantitative Green Chemistry Evaluator	Thishana Singh Theoretical Chemistry: A tool for sustainable chemistry in Africa
14h30-14h50	Phathisanani Hloma Smart electrochemical immunosensor for detection of aspartame in dietary products supported by in silico methods	14h45 Kenneth Ozoemena Developing electrochemical immunosensors for poverty-related diseases: tuberculosis, cholera, and cervical cancers	James Dicks Development of wholly biobased acid-terminated thermosetting polymers from castor oil, glycerol, and itaconic acid	Okikiola Olaniyan Ab initio study of the mechano-chemical coupling of Au(221) with chemisorbed oxygen atoms
14h50-15h10	Lebogang Manamela Evaluation of cellulose acetate supported MOF-5/crystalline nanocellulose nanocomposite as an adsorbent for methylene blue removal from water	15h20 TEA (30 mins)	Pierre Mubiayi Inorganic perovskites and nanocrystalline materials toward energy applications	Gerhard Venter Predicting transport properties of ionic liquids using molecular dynamics simulations including explicit polarization
15h10-15h40 TEA				
15h40-16h00	Grace Ngubeni Semiconducting Cu ₂ ZnSnS/Se ₄ quaternary chalcogenides as alternative counter electrodes for DSSCs	Computational and theoretical chemistry 15h50 Angela Wilson	Wesley Feldman (sponsored talk) African laboratory growth and development	Shane de Beer Computational study probing sustainable applications of greenhouse gases
16h00-16h40	David Benanou Think green –.play green SBSE: the right enrichment technique	16h35 Closing remarks Kevin Naidoo	Discussion: Green chemistry for sustainable development in Africa	Eric van Steen Aerobic oxidation of methane to formaldehyde over platinum
16h40-16h50 move to poster flash sessions 16h50-17h20 poster flash presentations				
17h20-18h30 POSTERS				

Pub Quiz night!

Wednesday (morning)

09h00 - 10h00: **Jan Weigand**

The element phosphorus - a challenge of the not too distant future

Chair: Catharine Esterhuysen

10h00-10h30: TEA and move to sessions

	Endler INORGANIC	1st year Argon (2011) ENVIRO/ANALYTICAL	1st year Neon (1015) YOUNG CHEMISTS	de Beers 2003 ENVIRONMENTAL
	Incorporates the 19th Inorg/Carman conference		<i>Chair: Megan Matthews (Willem van Otterlo EXCO)</i>	Remediation
	<i>Chair: Dave Billing</i>	<i>Chair: Lawrence Madikizela</i>		<i>Chair: Rob Luckay</i>
10h30-11h10	Nosipho Moloto Semiconductor nanocrystals as effective HER electrocatalysts		Kelly Chibale From synthetic organic chemistry to translational medicine and scientific entrepreneurship	Leslie Petrik Chemical escapades: persistent organic pollutants in the marine environment
11h10-11h30	Caren Billing Solid oxide electrolytes: Dopant effects on structural and conductivity properties of bismuth oxides	Tsepo Lebeko Health Risks Assessment of Trace Metals in Ground Water Collected From Berlin, Eastern Cape, South Africa	Discussion With Prof Chibale	Mandla Mabaso Fe ₃ O ₄ @SiO ₂ @Zr(OH) nanocomposite for the removal of Pb ²⁺ ions from aqueous solution.
11h30-11h50	Sanam Maikoo Biomolecular Interactions of Cytotoxic Ruthenium Compounds with Thiosemicarbazone or Benzothiazole Schiff Base Chelates	Silindile Ntombela Mineral beneficiation from seawater: development and optimization of selective extraction techniques for essential minerals from seawater brine	Luke Invernizzi High throughput screening of South African medicinal plants in the search for novel anti-viral agents against SARS-CoV-2	Ebrahiem Botha The Effect of Slurry Wet Mixing Time, Thermal Treatment, and Method of Electrode Preparation on Membrane Capacitive Deionisation Performance
11h50-12h10	Philani Mashazi Unraveling biomimetic properties of nanomaterials for diagnostic applications	Maria Mashigo Phytoremediation potential, chemical profiling and biological properties of South African indigenous species	Xueting Wei Single-Crystal to Single-Crystal Dimensionality Transformation of Metallocycle to Coordination Polymer	Agnes Pholosi The Effect of Slurry Wet Mixing Time, Thermal Treatment, and Method of Electrode Preparation on Membrane Capacitive Deionisation Performance
12h10-12h40	Peter Ajibade Metal complexes of alkyl-aryl dithiocarbamates: Molecular structures and uses as precursors for semiconductor metal sulphide nanophotocatalysts and potential as anticancer agents	Brenda Moodley Analysis of selected pharmaceuticals in a wastewater treatment plant during Covid-19	Tricia Naicker (Raikes Medal) Tips for young chemists to thrive in academia - based on my experience	Ntebogeng Mokgalaka-Fleischmann Contaminants of Concern in South African Water Resources: The Establishment of a Knowledge Hub

12h40 LUNCH | EXCURSION

Thursday (morning)

09h00 - 10h00: **Erick M. Carreira**

Strategies and Tactics in Natural Products as an Engine for Discovery

Chair: Gareth Arnott

10h00-10h30: TEA and move to sessions

Endler		1st year Argon (2011)	1st year Neon (1015)	de Beers 2003	
ANALYTICAL		PUBLISHING	ORGANIC	PHYSICAL	
Chromatography/MS <i>Chair: Luke Chimuka (Zeni Tshentu EXCO)</i>		<i>Chair: Thishana Singh</i>	<i>Chair: Wade Petersen</i>	Incorporates the 19th Inorg/Carman conference	
				Crystals as functional materials <i>Chair: Vincent Smith</i>	
10h30-11h10	Ralf Zimmerman Air pollution and health: Improvements in characterisation of the composition and toxicological impact of aerosol emissions and the polluted ambient air			Daniel Rauh Cancer meets Chemistry - Translational Research	Melanie Rademeyer Versatile organic-inorganic hybrid materials: structures and properties
	Samuel Makobe Spatial and temporal variations in the presence, levels, and risk assessment of selected polycyclic aromatic hydrocarbons in sediments and water from Klip River, Johannesburg, South Africa			Catherine Kaschula Natural dietary compounds and cancer prevention: investigations into the anti-cancer mechanism of action of flavonols and polysulfanes	Alan Eaby Direct observation of rapid water uptake and release from a vapochromic single crystal
	Angeline van Biljon Size exclusion and reverse phase high performance liquid chromatography as complementary tools to study wheat gluten protein			Ross Robinson Utilising anatase nano-seeds coupled with a visible-light antennae system () for effective photo-organic transformations	Tracy Lau Comparing the cooperative feedback reaction dynamics of imino-dithiin charge-transfer co-crystal compounds
11h10-11h30	Khuliso Maphakela Quantification and toxicity evaluation of steroid hormones in wastewater effluent	Lloyd Chetty Organic base-mediated carboxylation of (hetero)aromatic compounds using supercritical carbon dioxide (scCO ₂)	David Billing Limits of lab XRD and average crystal structure concepts – when studying energy and related functional materials.		
11h30-11h50	Getting your article published – advice from the journals	Vinesh Maharaj South African plants as a panacea to health challenges: Insights on collaborative endeavors exploring this resource in search of treatments	Patrice Kenfack Tsobnang Structure–properties relationship in two hydrogen-bonded MOF based of [Cr(ox) ₃] ³⁻ anions and cations built with 2-picolylamine and M = Co ³⁺ or Cu ²⁺		
11h50-12h10					
12h10-12h40		Lawrence Madikizela (Raikes Medal) Fate of pharmaceuticals in South African environment: Past, present and future research			

12h40 – 14h00 | LUNCH

Thursday (afternoon)

	Endler ANALYTICAL	1st year Argon (2011) SACI CDI	1st year Neon (1015) ORGANIC	de Beers 2003 MR USERS MEETING
		Breaking barriers in science		
	<i>Chair: Priscilla Baker</i>	<i>Chairs: Sadhna Mathura and Niki Báthori</i>	<i>Chair: Clint Veale</i>	<i>Chair: Denzil Beukes</i>
14h00-14h30	Kwenga Sichilongo Automated deconvolution, pre-processing and statistical evaluation of GC-MS data for untargeted/targeted metabolomics for mining metabolites in matrices of interest		Mamoalosi Selepe A search for bioactive compounds from natural sources	Neil Ravenscroft Using NMR spectroscopy to facilitate the development of vaccines against Group B Streptococcus disease
14h30-14h50	Madelien Wooding Human exposure to plasticisers from single-use plastic food contact materials	Breaking barriers in science: Hosted by SACI CDI and IUPAC Global Women's Breakfast 2023	Mpelegeng Bvumbi The photo-switchable polarity of conjugated cinnamic acid/chloroquinoline: Synthesis, isomerization, and antimalarial activities	Discussion
14h50-15h10	Moloko Morethe Quantification Of Per and Polyfluorinated Alkyl Substances in Wastewater Treatment Plants in South Africa		Dino Berthold Total Syntheses of 5,8'-Naphthylisoquinoline Alkaloids Employing Hartwig's Borylation/Methylation Strategy and a Novel Nickel/N,N-Ligand-catalyzed Atroposelective Cross-Coupling	Kabelo Ramollo Redox-switchable gold catalysis monitored by NMR and EPR spectroscopy
15h10-15h40 TEA				
15h40-16h00	Kedibone Mashale Gravimetric quantification of low-grade gold in mine tailings	<i>Chair: Margaret Blackie</i>	Vladimir Azov Stabilizing peptide nano-structures using non-canonical amino acids with donors and acceptors	Izak Kotze Conformational analysis and potential anticancer activity of [Pt(phen)(L1-κS) ₂] studied by single crystal X-ray Diffraction and Variable Temperature ¹ H and ¹⁹⁵ Pt NMR Spectroscopy
16h00-16h40	Egmont Rohwer A method for sampling skin volatile compounds and their analysis by GCxGC-TOFMS for TB related metabolic profiling.	Breaking barriers in science: Engaging with questions from our community	Winston Nxumalo Reduction of α,β-alkynyl carbonyl compounds using SnCl ₂ and computational investigation of the reaction mechanism	Rainer Kerssebaum Bruker NMR spectroscopy
16h40-16h50 move to poster sessions				
16h50-18h00 POSTERS				

18h00 | end of poster session, busses to conference dinner leave at 18h30

Friday (morning)

09h00 - 10h00: **Perdita Barran**

Sebum and Joy – non-invasive sampling for disease diagnosis

Chair: André de Villiers

10h00-10h30: TEA and move to sessions

Endler	1st year Argon (2011)	1st year Neon (1015)	de Beers 2003
ORGANIC	SOCIETIES ROUND TABLE	EDUCATION	INDUSTRIAL
<i>Chair: Catherine Kaschula</i>	The IYBSSD and you <i>Chair: Catharine Esterhuysen</i>	<i>Chair: Margaret Blackie</i>	Industrial challenges & transition into the sustainable future <i>Chair: Suzanne Finney</i>
10h30-11h10 Alison Hulme Track and Trace by SRS: A New Tool for MedChem	Panel discussion with representatives from SACI and other learned societies on the International Year of Basic Sciences for Sustainable Development and how we as scientists can contribute to sustainable development in Africa through Chemistry	Tom Holme From Context to Systems Thinking in Chemistry Education	Fahmida Smith PGMs – A key enabler in addressing global challenges and unlocking societal benefits
11h10-11h30 Aaron Bender Development of Peripherally Restricted 5-HT _{2B} Antagonists for Treatment of Pulmonary Arterial Hypertension		Shawn Gouws Digitalize learning via process simulation to understand process control	Josiane Ayingeneye Solvent-dependent extraction of steam-exploded sugarcane bagasse: Lignin and glucose yields, and structural and thermal properties of lignin
11h30-11h50 Setshaba Khanye Ferrocene: A versatile organometallic fragment in the design of novel therapeutic agents		Marissa Rollnick A review of the topic specific pck in available videos on the big idea, "What is chemical equilibrium?"	Thembelihle Mehlo Synthesis of Aluminium Fumarate Metal Organic Frameworks from Multi-Layered Food Packages Recycled Waste Materials
11h50-12h10 Kimberleigh Govender Synthesis of "Dual Warhead" β -Aryl Ethenesulfonyl Fluorides and One-Pot Reaction to β -Sultams		Dudley Shallcross The myriad positive impacts of the Virtual Learning Environment, from LabSims to Smart Worksheets (a 17 year journey)	Shane Smith Effect of magnetic fields on limescale: an experimental investigation
12h10-12h40 Paul Watts Can South Africa facilitate local API manufacturing: The vision of continuous flow chemistry?		Kgadi Mathabathe Towards infusing education for sustainable development imperatives in chemistry education: pedagogical considerations	Cosmas Chiteme South Africa's Journey towards a Hydrogen Economy: Lessons Learnt in Funding Innovations

12h40 – 14h00 | LUNCH

Friday (afternoon)

Endler ORGANIC	1st year Argon (2011)	1st year Neon (1015) EDUCATION	de Beers 2003 INDUSTRIAL
<i>Chair: Winston Nxumalo</i>		<i>Chair: Helen Drummond (Peter Mallon EXCO)</i>	Industrial challenges & transition into the sustainable future <i>Chair: Eric van Steen</i>
14h00-14h30 Maya Makatini Cyclic peptidomimetic inhibitors from natural templates targeting the Mycobacterium tuberculosis caseinolytic protease ClpP1P2 and ClpC1 ATPase		14h00 Margaret Blackie (Education medal) Connecting to Chemistry: Lessons from a Longitudinal Study	Estee Moodley Rand Refinery, our past, present, and future
14h30-14h50 Sbonelo Hlengwa Anti-HIV and cytotoxicity activity of diterpenoids from South African Euphorbia species		14h30 Christine Mundy (Education medal) Making chemistry meaningful (TEA at 15h00)	Brandon Davoran The importance of chemistry for e-mobility development: An African perspective
14h50-15h10 Meghan Oddy Visible-Light Mediated Triplet Energy Photosensitization for the Formation of Nitrogen-Containing Heterocycles			Taella Thiar Synthesis and evaluation of chelating collectors designed for improved sperrylite recovery
15h10-15h40 TEA			
15h40-16h00 Bahne Stechmann Sharing compounds within in pre-competitive international research infrastructure initiative for chemical biology and early drug discovery		Ayodele Odularu Student-centered approach via infographic to enhance chemistry learning among first year undergraduate students in South African universities	Jan Rijn Zeevaart The options Nuclear Medicine offers to Drug Researchers for translation of their Compounds into the Clinic
16h00-16h40 Kerry McPhail Structure and Function of Microbial Natural Product Macrocycles		Rene Toerien (Education medal) Partnerships to support science teaching at school level	Cathy Dwyer The role of chemistry in enabling South Africa's Just Energy Transition

16h40-16h50 | move to final session, Endler

16h50-17h35 | Gold Medal Lecture - **Fernando Albericio**: Peptides, Key Building Blocks for Drug Development
Chair: Willem van Otterlo

17h35-18h00 | Prizegiving and closing ceremony
Chairs: Catharine Esterhuysen & Delia Haynes

Travel home safely!

Poster flash presentations

Monday

Endler		de Beers 2003	
Margareta	Sandahl	Emile	Maggott
Tsholofelo	Sebokolodi	GH	Rakodi
Andrea	du Preez	Josef	Spath
Sandiso	Ngwenya	Sarah	Wright
Ursula	Ralepelle	Althea	Carstens
Redolf	Segodi		

Tuesday

Endler		de Beers 2003	
Sol	Nety	Matthew	Scheepers
Perceverence	Tenza	Gciniwe	Mathenjwa
Nonhlazeko	Nxumalo	Hlawulekani	Rikhotso
Seth	Rapoo	Mogammad Luqmaan	Samsodien
Mofeli Benedict	Leoma	Kgaugelo	Tapala
Pinky Ncomela	Mjwara	Luccile	Mbonzhe

Poster sessions

Please ensure you are at your poster during your allocated session. If you have an even-numbered poster, please be at your poster for the first 35 mins of the session. If you have an odd-numbered poster, please be at your poster for the second 35 minutes of the session.

Monday

Endler	de Beers 2003
PA2, PA3, PA4, PA5, PA6, PA7, PA8, PA9, PA10, PA11, PA12, PA13, PA14, PA15, PA16, PA17, PA18, PA19, PA21, PA22, PA26, PA31, PA32, PA36, PA38, PA39, PA40, PA44, PA47	PI1, PI2, PI3, PI4, PI5, PI6, PI7, PI8, PI9, PI10, PI11, PI13, PI14, PI15, PI16, PI17, PI18, PIND1, PIND2, PG1, PG2, PG3, PG4, PE1, PE2, PE3, PE4

Tuesday

Endler	de Beers 2003
PA20, PA23, PA24, PA25, PA27, PA28, PA29, PA30, PA33, PA34, PA35, PA37, PA41, PA42, PA43, PA45, PA46, PA48, PA49, PE6, PE7, PE8, PE10, PE11, PE12, PE13, PE14, C86	PP11, PP12, PP13, PP14, PP15, PP16, PP17, PP18, PP19, PP20, PP21, PO1, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PO13, PO14, PO15, PO16, PO17, PO18, PO19, PO20

Thursday

Endler	de Beers 2003
PO21, PO22, PO23, PO24, PO25, PO26, PO27, PO28, PO29, PO30, PO31, PO32, PO33, PO34, PO35, PO36, PO37, PM2, PM3, PM4, PM5, PM6, PM7, PX1	PI12, PI19, PI20, PI21, PI22, PI23, PI24, PI25, PI26, PI27, PI28, PI29, PI30, PI31, PI32, PI33, PI34, PI35, PP1, PP2, PP3, PP4, PP5, PP6, PP7, PP8, PP9, PP10, PED1, PA1, PX2