

School of Chemistry
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- The Exec is currently looking at the way SACI is structured. It is clear that the way Sections operate in real life is different from what is proposed in the Constitution.
- 1
 - 2 To this end Mike Britton was asked to send out a Questionnaire to all Section and Division Chairs. The data has been compiled and Ian Bratt has provided some suggestions as to what to consider to move SACI forwards. Some preliminary proposals are now being formulated. Once done SACI members will be asked for comment and once input has been received the member will be asked to vote on changes. This hopefully will be concluded before year end. The SAQA issues are still being sorted out – new requirements are now requested before we can submit the SACI request to SAQA. Members will continue to be kept informed of developments.
 - 3
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 - 20 *Neil Coville*
 - 21

SACI NEWS

SACI office

The SACI office has now moved back to Wits. It is located on the 8th Floor of Gate House room 822. We will keep the UKZN e-mail address in operation till the end of the year. However, the new e-mail address will fortunately be the same as we had when the office was last at Wits.

Laila Smith
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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

SACI Inorg 2015. Dates have now been established: Sunday 28th June to Thursday 2nd July 2015. To be held in Grahamstown. (This is timed so that delegates can stay on for the National Arts Festival 2nd July to 12th July, if they so wish.)

The SACI AGM will take place on Thursday 7th August 2014 at the School of Chemistry, University of the Witwatersrand, Johannesburg. Please diaries the venue and date. Further details will be sent out later.

The annual Gauteng SACI- RSC (North) Dinner will be held on August 29th 2014. More details alter. At this event the SACI Fellows certificates (2013 and 2014) for the Gauteng Branch members will be awarded.

IUPAC and related News

Don't forget the IUPAC Green Chemistry event (see advert elsewhere in the newsletter). The SACI Green committee is playing a prominent role in the organisation. Submissions for oral presentations have closed but poster presentation submissions can still be made.

FASC News

The Chemical Society of Nigeria (CSN) and the FASC Congress 2015 will take place from 21st - 25th September 2015; Transcorp Hilton Hotel or New Chelsea Hotel in Abuja, FCT, Nigeria.

ACS News

The BOCC conference will be held at Stellenbosch University from 30 Nov - 4 Dec 2014 and will involve organic chemists from SA and the USA. See advert below.

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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/>

Graham Jackson retires as SAJChem editor.

Graham Jackson resigned as chief editor of the South African Journal of Chemistry and will be replaced after the annual council meeting in August 2014. Graham was elected in 2010 as chief editor and under his guidance the journal went from strength to strength. During this period the journal introduced an electronic submission mechanism and experienced a rapid growth in stature and popularity. The excellent work done by Graham did not go unnoticed and is acknowledged by the chemistry community of South Africa. SACI EXEC and the SACI council wishes to convey a message of our appreciation to Professor Jackson for his leadership, work ethic and dedication during the past five years that helped maintain and improve the quality and standard of the institute's journal. We wish you well with your retirement at the end of the year.

Simon Lotz

- **African Journal of Pure and Applied Chemistry**

African Journal of Pure and Applied Chemistry

Table of Content

Volume 8, Issue 5

May 2014

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

- **African Journal of Chemical Education**

- **Nanonews in South Africa**

For those doing nanochemistry: SAASTA now produces a newsletter.

nanonews@npep.co.za. Prof Janice Limson, NPEP NanoNews Editor

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CAIA Newsletter

The latest issue of CAIA news i.e. **Issue 136 May 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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SACI and SACI related Conference events

Analitika 2014

Contact Patricia Forbes, Patricia.Forbes@up.ac.za the chair of the scientific committee or Mike Britton Email: mike.britton@necsa.co.za for preliminary information



Analitika 2014 will be held from **7 to 11 September 2014** on the banks of the Vaal River at *Khaya iBhubesi* on the outskirts of Parys, only 120 km from Johannesburg.

This Conference, the seventh in a series since 1992, will for the first time be organised jointly by four SACI Divisions (the Analytical Division, ChromSA, SAAMS and ThermSA), as well as the SA Spectroscopic Society (SASS) and will cover all aspects of analytical chemistry.

The theme of the conference, ***Milestones in measurements***, will be addressed by several prominent overseas and local scientists who have agreed to participate as invited speakers – see details below.

In addition, more than 50 oral and 55 poster presentations will be delivered during the Conference and all the leading vendors will exhibit their latest analytical equipment. The full programme will be posted on the Conference website by 9 July.

For more information, and to register for *Analitika 2014*, please visit the Conference website (<http://www.analitika2014.co.za/>).




Analitika 2014

ANALITIKA 2014 INVITED SPEAKERS

	Jan Andersson, University of Münster, Germany
	Analyzing the impossible: The struggle towards a molecular characterization of crude oil
	Éder Cavalheiro, Instituto de Química de São Carlos, Brazil
	Thermal Analysis applied to biopolymers, pharmaceuticals and artificial sweeteners
	Luke Chimuka, University of the Witwatersrand, South Africa
	Novel developments in sample preparation with special focus on bioavailability and new sorbents
	Jack Cochran, Pennsylvania State University, USA
	My Decade of Growth Using Comprehensive Two-Dimensional Gas Chromatography (GCxGC) – Time-of-Flight Mass Spectrometry (TOFMS) for Analysis of Environmental and Food Safety Samples
	Graham Cooks, Purdue University, USA
	Milestones in Measurements in Mass Spectrometry
	Jan Åke Jönsson, Lund University, Sweden
	Hollow Fiber Liquid Phase Microextraction for solid and semi-solid samples
	Kathryn Lilley, University of Cambridge, UK
	Draft subcellular map of a mouse cell
	Maggi Loubser, PPC Cement, South Africa
	Milestones in X-ray Fluorescence Spectroscopy – did the big box become a black box?
	Pat Sandra, Research Institute for Chromatography, Belgium
	Advances in Comprehensive Chromatographic Techniques

Analitika 2014

ANALITIKA 2014 INVITED SPEAKERS

	Volker Schillack, V & M Analytical Toxicology Laboratory Services, South Africa
	The value of measuring total arsenic versus the different arsenic species in urine by HPLC-ICP/MS
	Ralph Sturgeon, National Research Council, Ottawa, Canada
	Modern Tools for Inorganic Analytical Atomic Spectrometry
	Rina van der Westhuizen, SASOL, South Africa
	GCxGC with TOF-MS, FID and SCD detection for the evaluation of desulphurisation catalysts in Clean Fuel processes

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SACI and SACI related Conference events

Analitika 2014



SHORT COURSE ON SAMPLE PREPARATION FOR ENVIRONMENTAL AND BIOMEDICAL ANALYSIS

Presented by Prof Jan Åke Jönsson
Department of Chemistry, Lund University, Sweden
4 to 5 September 2014
Quantum Hall, NMISA
CSIR, Pretoria

Abstract:

In analytical chemistry, sample preparation is an important activity. It forms the link between samples from the environment, from biological specimens, from industrial products, etc, and the analytical instruments. In most applications of chemical analysis, unit operations as different types of extraction, enrichment, derivatisation, solvent changes and purification are necessary in order to be able to successfully apply modern and sensitive instruments.

This short course will cover most of the techniques that are used for sample preparation in modern organic analytical practice with some emphasis on miniaturized membrane-based extraction techniques.

Please refer to the detailed course content and abbreviated biography of the presenter below.

Cost: (including course handouts, light lunch, tea and coffee)

Delegate Registration: R 1 995 (including VAT)

Full-time Student Registration (with motivation from promoter): R1 140 (including VAT)

On-line registration via the ANALITIKA 2014 conference website (www.analitika2014.co.za)

**Please note that space is limited;
your place on the course will only be reserved once payment has been received!**

Enquiries:

Course content: Prof Luke Chimuka (Luke.Chimuka@wits.ac.za)

Registration: Carla de Jager (carla@carlamani.co.za)

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SACI and SACI related Conference events

Analitika 2014

Course Content:

Sample preparation techniques for liquid samples

- Liquid liquid extraction
- Solid phase extraction
 - Molecular imprinting
- Solid phase micro-extraction
 - Stir-bar sorptive extraction
- Liquid phase micro-extraction
 - Drop techniques
 - Hollow fiber and other membrane techniques
- Head-space extraction (static and dynamic)

Sample preparation techniques for solid samples

- Soxhlet extraction
- Supercritical fluid extraction
- Pressurized liquid extraction
- Microwave-assisted extraction

Membrane extraction techniques

- Different formats
- Theoretical principles
- Equilibrium extraction

Abbreviated biography of the course presenter:



Prof Jan Åke Jönsson
Lund University, Sweden

Jan Åke Jönsson obtained his PhD degree in 1978 at Lund University, where he became professor in Analytical Chemistry in 2000 and retired in 2014.

He has taught Analytical Chemistry and Environmental Science and has supervised 34 PhD students.

During 2004-2007 he was a titular member of the IUPAC Division of Analytical Chemistry.

His main research interest is the development of liquid membrane techniques for trace analysis of organic compounds in mainly environmental applications.

He is the author of over 250 scientific papers and book chapters and editor for one book.

In his spare time he enjoys sailing, travelling and listening to opera.

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SACI and SACI related Conference events

BOCC 2014

30 NOV - 03 DEC 2014






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

>>> INCORPORATING THE THIRTEENTH FRANK WARREN CONFERENCE

Confirmed American & South African plenary & invited lecturers

USA	SA	SA
V. Gevorgyan (University of Illinois at Chicago)	D. Beukes (UWC)	B. Klumperman (SU)
M. Kozlowski (University of Pennsylvania)	M. Bode (Wits)	J. Michael (Wits)
R. Sarpong (University of California at Berkeley)	K. Chibale (UCT)	T. Naicker (UKZN)
C. Forsyth (Ohio State University)	M. Davies-Coleman (UWC)	C. Nkambule (TUT)
E. Sorensen (Princeton University)	R. Hunter (UCT)	L. Pilcher (PU)
S. Snyder (Scripps Research Institute)	P. Kaye (RU)	R. Robinson (UKZN)
W. Jorgensen (Yale University)	D. Khanye (RU)	M. Vosloo (NWU)
J. De Brabander (UT Southwestern Medical)	K. Kaschula (UCT)	
J. Gervay-Hague (University of California Davis)		

DATES

31 Mar 2014	Start of preliminary registrations
30 June 2014	Last "Early bird payments"
31 Aug 2014	Abstract deadline
30 Sept 2014	Notification of acceptance of abstracts
31 Oct 2014	Last day for payments
30 Nov - 4 Dec 2014	Conference!

Please see our **website** for more information:
<http://academic.sun.ac.za/FrankWarren/index.html>

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SACI and SACI related Conference events

5th IUPAC International Conference on Green Chemistry

To be held in Durban at the Southern Sun Elangeni Hotel, 17-21 August 2014;

<http://www.saci.co.za/greenchem2014>

Warmest welcome to the 5th International IUPAC Conference on Green Chemistry

Where Durban (South Africa)

When 17-21 August 2014

Online registration and abstract submission <http://www.saci.co.za/greenchem2014/index.html>

Deadline for abstract submission for posters: 31 July 2014

Oral submissions closed

Contact us saci.chem@wits.ac.za

A unique scientific experience

Plenary speakers from different continents

Peter Mahaffy (The King's University College, Edmonton, Canada):

Educating for a Sustainable and Secure Planet

Claudio José de Araújo Mota (Universidade Federal do Rio de Janeiro):

Catalytic Conversion of CO₂: From a Green House Pollutant to a Green Raw Material

Bruno G. Pollet (South African Institute for Advanced Materials Chemistry):

Hydrogen Energy for Africa

Pietro Tundo (University of Venice, Italy):

Chemistry Beyond Chlorine

Tao Zhang (Dalian Institute of Chemical Physics, Chinese Academy of Sciences):

Catalytic conversion of biomass to value-added chemicals

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SACI and SACI related Conference events

5th IUPAC International Conference on Green Chemistry

Scientific sessions

- sessions on all the key themes of Green Chemistry
- joint sessions with other areas: Environmental Chemistry, Polymer Chemistry
- a session on sustainability and security, organised by OPCW

Workshops

Peter Mahaffy and Alistar Hay (The King's University College, Edmonton, Canada):

Choices for Chemists: Multiple Uses of Chemicals

Mary Kirchhoff (ACS):

Student Workshop on Green Chemistry

Sivakumar Manickam and Prof Cravotto (University of Nottingham Malaysia Campus):

Ultrasound based cavitation processes for green chemical processing

Organising Committee

Prof Liliana Mammino
Dr Vincent O. Nyamori
Prof Neil J. Coville
Prof Teunis van Ree
Prof Bice S. Martincigh
Dr Mahlori Mashimye
Dr Alufelwi M. Tshavhungwe
Ms Laila Smith

Chairperson
Vice-chairperson
Scientific programme
Conference coordinator
Treasurer
Industry
Logistics
Secretary

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SACI and SACI related Conference events

Others

- **The International Conference on Pure and Applied Chemistry (ICPAC)** The biennial event organised since 2010. ICPAC-2014 will be held from 23rd to 27th June 2014, in Mauritius.
- **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:
 - ☐ Industrialisation of nanotechnology
 - ☐ Nanotechnology education
 - ☐ Nanobiotechnology and biomedicine
 - ☐ Modelling and electronics
 - ☐ Risk assessment and regulation
 - ☐ Materials chemistry and analysis
 - ☐ Design and development
 - ☐ Material functionalisation
 - ☐ Macro- and supramolecular architectures

Nobel Laureates
Presenting plenary talks at the conference
Prof. Dan Shechtman:
Nobel Laureate 2011 – Chemistry
Prof. Robert Huber:
Nobel Laureate 1988 – Chemistry
Prof. Klaus von Klitzing:
Nobel Laureate 1985 – Physics



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Conference List

- **XXVI Int Conf on Organometallic Chem** July 13-18, 2014, Sapporo Japan icomc2014@ec-pro.co.jp
- **Shechtman International Symposium** June 29 to July 4 2014. Fiesta Americana Condesa Cancun All Inclusive Resort in Cancun, Mexico. <http://www.flogen.org/ShechtmanSymposium>.
- **NANOCON 014** on Nanotechnology 14 – 15 October 2014, Pune, India – smart materials, composites, applications and new innovations. (www.bvunanocon.com)
- **ICPAC-2014** 23rd to 27th June 2014, Mauritius. “Crystallising Ideas: The Role of Chemistry” <http://sites.uom.ac.mu/icpac/FER>
- **Test and Measurement 2014: conference and workshop**, 29th September - 1st October 2014, Misty Hills Conference Hotel, Muldersdrift, Gauteng, South Africa E-mail: steves@nla.org.za, www.nla.org.zaENCE
- **Smart Materials and Surfaces - SMS Bangkok 2014**; 26th- 28th August 2014, Sheraton Grande Sukhumvit Hotel, Bangkok –Thailand URL: www.setcor.org/conferences/SMS-Bangkok-2014; The Smart Materials and Surfaces International Conference and Exhibition - SMS Bangkok 2014 is a three days event targeting researchers interested in the Design, Modification, Characterization and Applications of Novel, Smart and Active Surfaces and Materials.
- **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.

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Extra Events (taken from CAIA newsletter)

- Premier Knowledge, Operating Regulations for High/ Medium Voltage Systems Workshop (ORHVS), 9-11 July 2014. Hackle Brooke Conference Centre, Craighall Park JHB, Email: kate.malcom@premierknowledge.co.za
- 3rd edition of INACHEM, 14-16 August 2014, Jakarta International Expo Kemayoran, Indonesia. Contact: Monica, Tel: +62 21 7892938 or +62 812 9070 9647, Email: ms.monicaanggraeni@gmail.com
- NOSHCON 2014, 9-12 September 2014, Champagne Sports Resort, Central Drakensberg, KZN. Contact: Tel: 010 226 4000, Fax: 086 755 8867, E-mail: noshcon@nosa.co.za
- The 7th Annual SA innovation Summit, Cape Town stadium, Tel: 012 844 0674, Email: marketing@innovationsummit.co.za
- 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

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Workshops

- IUPAC Green Chemistry: Ultrasound and Microwave as Green Processing Techniques for Diverse Technological Applications



Preconference workshop / short-course:

Ultrasound and Microwave as Green Processing Techniques for Diverse Technological Applications

Abstract:

In these days green and clean processing techniques receive greater attention in a wide variety of technologies. In this connection, this preconference workshop offers an excellent opportunity and intends to expose the participants to learn about the fundamentals, effective usage and technological applications of ultrasound and microwaves. With proper learning and understanding, these techniques could be employed in an energy efficient way. Besides, the discussion will be made about the translation of lab scale to plant scale. The presenters have a very long experience in designing ultrasound and microwave reactors and thus it is an opportunity to learn these techniques in an easy way through this workshop.

Intended audience:

Any research student and researchers willing to learn and exploit the potential behind ultrasound and microwave for a variety of technological applications and chemical process intensification. Besides, it is also useful for the industrial people who are interested to utilize these techniques for their intended applications on a larger scale.

Materials provided:

Each participant receives both a paper and electronic copy of detailed hand-outs to be used during the lecture portions of the workshop.

Rough Agenda:

Fundamental of Ultrasound, reactors and applications – 3 h
Fundamental of Microwave, reactors and applications – 3 h
Total time for the workshop – 6 h

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Workshops

Cost:

Registration fee includes: teas, lunch and notes.

USD \$ 100 Delegates | USD \$ 50 Student Delegates

ZAR R 1000 Delegates | ZAR R 500 Student Delegates

Registration:

[National Registration in ZAR - R](#)

[International Registration in US dollar- \\$](#)

Click one of the above links to register

• Student workshop on Green Chemistry

Intended audience:

This half-day workshop will provide an introduction to green chemistry for undergraduates, graduate students, and postdoctoral scholars. The workshop will engage students in lectures, small group discussions, and case studies, enabling participants to apply green chemistry to real-world scenarios.

Workshop format:

Lectures, small group discussions and case studies

Preliminary schedule:

The workshop is scheduled to run from 13:00 to 17:30 on .

1:00-1:15 PM	Welcome and introductions
1:15-2:00 PM	Principles of green chemistry
2:00-3:00 PM	Green chemistry metrics
3:00-3:30 PM	Break
3:30-4:30 PM	Solvent selection
4:30-5:30 PM	Case studies

Cost:

Registration fee includes: teas

USD \$ 15 All Delegates

ZAR R 100 All Delegates



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Other

MAM-14 conference

MAM-14


INTERNATIONAL SYMPOSIUM ON
MACRO- AND SUPRAMOLECULAR
ARCHITECTURES AND MATERIALS

*"From Innovation to
Commercialisation"*




23 - 27 November 2014

Emperors Palace Hotel Casino,
Convention and Entertainment
Resort,
Johannesburg, South Africa

CPD Credits = 5



Sponsored by:



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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Other

Microsep Technology Conference & Expo



INVITATION

Microsep Technology Conference & Expo 2014

Date: 29 - 31 July 2014

Venue: Birchwood Hotel & Conference Centre
Boksburg, Gauteng

Time: 09:00 - 17:00 daily

Microsep
National Separations (Pty) Ltd
a Waterbury Technology

NATSEP
National Separations (Pty) Ltd
a Waterbury Technology

Microsep Technology Conference & Expo 2014

To pre-register for this event and confirm attendance, go to:
www.MTCE2014.co.za

Registration and information of scientific presentations will be available from 5 May 2014

For further information, contact
Brenda Little or Joanne Taylor
Tel: (011) 553 2300
Email: MTCE2014@microsep.co.za

Microsep will be representing:
Waters • METTLER TOLEDO • Amicon Filters • Celis • ERA • Hanson Research
Horizon Technology • Hygiene International • Lighthouse Worldwide Solutions
Mabtech • Peak Scientific • Rapco • Ruedi • Sartorius • Vison

GPS Co-ordinates: 26° 10' 29.34" South
28° 14' 56.77" East

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Other

CATSA conference

CATALYSIS SOCIETY OF SOUTH AFRICA 25TH ANNUAL CONFERENCE
'SILVER ANNIVERSARY EVENT'
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,
Vienna, Austria
www.iap.tuwien.ac.at/www/surface/group/diebold



CATALYSIS SOCIETY OF SOUTH AFRICA



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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