

# Newsletter, April 2014

## SAIT Programme 2014



Mr Derek Hanekom,  
Minister of Science &  
Technology

### Friday 9 May 2014: SAIT Annual Dinner

– 19:00 for 19:30 at the Wanderers Club; dress - smart; Guest Speaker Mr Derek Hanekom, Minister of Science and Technology. *Please diarise this date as an opportunity to meet with fellow tribologists in an elegant and relaxed manner and to*

*network within the industry.* Members and their guests are welcome. Further details to follow.

**13 May 2014: SAIT AGM and Technical Meeting** – *Please Diarise and make sure to book when details follow closer to the time.*

**19 – 23 May 2014: 5-day Lubrication Engineering Course (89)** - Sica's Guest House, 19 Owen Avenue, Mayville, Durban. *This course is registered with ECSA, SAIMM number 00661, and is awarded five CPD credits. **Book now to reserve your place – e-mail Gill or Isabel to request a form or phone 011 804-3710.***

**2 – 6 June 2014: 5-day Lubrication Engineering Course (90)** - Science Park, 1 Northway off Marlboro Drive, Kelvin, Sandton, Johannesburg. *This course is registered with ECSA, SAIMM No. 00662, and is awarded five CPD credits. **Please note, this course is fully booked.***

**25 – 29 August 2014: 5-day Lubrication Engineering Course (91)** - Breakwater Lodge, V&A Waterfront, Cape Town. *This course is registered with ECSA,*

*SAIMM No. 00663, and is awarded five CPD credits.*

**15 – 19 September 2014: 5-day Lubrication Engineering Course (92)** - Science Park, 1 Northway off Marlboro Drive, Kelvin, Sandton, Johannesburg. *This course is registered with ECSA, SAIMM No. 00664, and is awarded five CPD credits.*

**19 & 20 November 2014: SAIT CLS Study Course** – Science Park, 1 Northway, off Marlboro Drive, Kelvin, Sandton, Johannesburg. For those wishing to write the STLE CLS exam, attendance of this course is strongly advised, especially bearing in mind the imperial measurements that are used and the focus on steel industry lubrication. The course will be facilitated by a current CLS holder, and study modules can be made available before the course dates, if needed. The STLE exam standard is high and the pass mark is 70%. Global pass rates are around 50%.

**21 November 2014: STLE - CLS, OMA & CMFS exams** – Science Park, 1 Northway off Marlboro Drive, Kelvin, Sandton, Johannesburg.

### Course Attendance:

We ask that, should a delegate not be able to attend a course for which they have registered, they let us know as soon as possible, so that we can accommodate people from the waiting list. Delegates can phone either Gill or Isabel at 011 804-3710, or e-mail Gill at [secretary@sait.org.za](mailto:secretary@sait.org.za) or Isabel at [admin@sait.org.za](mailto:admin@sait.org.za). We will be happy to carry your registration forward to a future course at no further cost.

***For further details of all the above, please contact Gill or Isabel at 011 804-3710 or e-mail either [secretary@sait.org.za](mailto:secretary@sait.org.za) or [admin@sait.org.za](mailto:admin@sait.org.za)***



## Tribology 2015 – 11th International Tribology Conference

Following the successful 9<sup>th</sup> and 10<sup>th</sup> International Tribology Conferences held in 2008 and 2011, this prestigious international event will once again be presented by the South African Institute of Tribology at the University of Pretoria Conference Centre from 10 to 12 March 2015.



Gill Fuller

Gill Fuller, Secretary and Isabel Bradley, Assistant Secretary, have added to their workload, ensuring that the Conference will be of the highest standard on all levels.



Isabel Bradley

Participants will have the opportunity to present their work, to exchange ideas and results, and to meet people with similar tribological interests.



Gwidon Stachowiak

USA.

A First Announcement was sent to all SAIT members and non-members within the industry, towards the end of 2013.



Wilfred Tysoe

The Second Announcement and Call for Papers was sent to all SAIT members, non-members within the industry, and international contacts from Tribology 2008 and 2011, and will also be posted in due course. This Second Announcement was sponsored by Total. It can be accessed by going to the SAIT website, <http://www.sait.org.za>.



The right choice in lubricants

Exhibition space will be available at the Conference venue. Sponsorship of various Conference events is invited. Details are available from the Conference Organising Committee,



**Suggested topics for papers and presentations are:**

Experimental, theoretical and case studies on the following topics can be submitted:

**Industrial Tribology - Problems and solutions:** Applications and case studies in metalworking and manufacturing processes; lubrication equipment in the mining, power generation, automotive, steel, textile and agricultural industries.

**Lubricants Testing and Condition Monitoring:** Properties and applications of mineral and synthetic oils and greases; metalworking fluids and solid lubricants. Maintenance of tribosystems; oil analysis; fluid cleanliness and filtration technology. Failure analysis techniques; modeling and simulation of tribosystems.

**Wear Processes and Tribology of Materials:** Friction and wear; surface engineering; sliding and rolling contacts; wear control; wear aspects of metallic materials, ceramics, composites, hardmetals, polymers and coatings; micro and nano-tribology.

**EHD, Boundary and Fluid Film Lubrication:** Bearings; rotor dynamics; modeling of fluid film phenomena; applications to gears and rolling bearings.

**Biotribological applications:**

Tribology in medical applications; Rheology of natural fluids; Modeling of human joints; Friction and wear of synthetic joints. Use of numerical methods in design methodologies for tribocontacts; studies on wear and surface deterioration of tribosystems; computer aided design of tribo elements.

**Tribology and the environment:** Health and safety problems; environmental issues; conservation; recycling and disposal of tribological waste materials.

**Copyright:** The SAIT holds the copyright for the publication of accepted papers until after the conference proceedings have been published.

**Submission of Abstracts:** An abstract of maximum 500 words should be submitted to

the Conference Secretary no later than the above deadlines, either online or via email. Accepted abstracts will be published in the printed Conference Proceedings. Full length papers must be submitted and will be provided on CD. No paper will be published unless presented by one of the authors. Acceptance of abstracts & final papers will be based on a peer-reviewing process.

**Conference Organising Committee:**

Professor Philip de Vaal	Chairman
Mr David Beard	SAIT President
Mrs Gillian Fuller	Secretary
Mrs Isabel Bradley	Assistant Secretary

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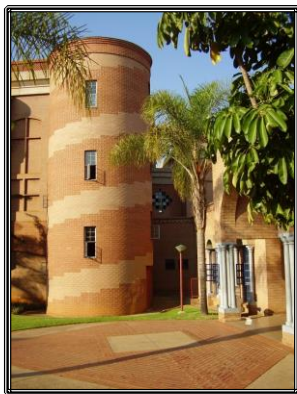
The Union buildings, Pretoria

**Pretoria & The University**

Pretoria, the administrative capital of South Africa, offers the technical facilities and the cultural amenities of an international city, and has amongst the best scientific and academic



institutions in Africa. Pretoria has a pleasant and sunny climate and a scenic natural setting. There are many interesting and historical attractions in and around Pretoria including the Union Buildings and Botanical Gardens. It is a central departure point for the intriguing "Lost City", the Kruger National Park, Pilanesberg Game Reserve which is located in an extinct volcano, and many other interesting game parks. Pretoria is only 40 minutes from Johannesburg International Airport, and is linked to the rest of the country by air, road and rail.



**University of Pretoria  
Conference Centre**

The University of Pretoria Conference Centre is on the University Campus, and is centrally situated close to hotels, guest houses, shops and banks.

## **International Tribology Events.**

### **STLE 69th Annual Meeting**

**May 18-22, 2014**

Disney's Contemporary Resort  
Lake Buena Vista, Florida



### **Record 500 technical presentations slated for 2014 STLE Annual Meeting**

Attendees at STLE's 2014 Annual Meeting & Exhibition, May 18-22 at Disney's Contemporary Resort in Lake Buena Vista, Florida, will hear a record number of technical presentations.

More than 450 technical presentations are slated for the five-day event. Combined with student posters, the total number of technical presentations attendees may choose from **exceeds 500**.

To put that in perspective, STLE's annual conference normally generates about 350 technical presentations. Anything over 400 is considered outstanding.

Combined with 12 industry-specific education courses and an unparalleled international networking opportunity, STLE's 2014 annual meeting is a unique industry event where attendees can acquire months of technical information in less than a week.

Some 1,400 members of the tribology-research and lubricant communities are expected to attend the meeting. The number of technical presentations is the latest indicator that STLE's 2014 conference will be one of its strongest ever.

The trade show sold out months in advance, as did the increasingly popular Commercial Marketing Forum, where lubricant companies can make the kind of promotional presentations not allowed in the technical sessions. Both events are designed to keep attendees informed on the latest products and services hitting the lubricants industry.



In addition, bookings for the Contemporary and two additional hotels have been running more than 50 percent ahead of what STLE normally expects to see. If you haven't booked your room yet, call Disney Reservations at 407-939-4686.

The fastest way to register for the 2014 STLE Annual Meeting & Exhibition is online. <https://www.stle.org/events/annual/registration.aspx>

The April 18 Early Bird registration deadline is rapidly approaching. If you **register by April 18**, you'll **save \$90 on your meeting fee**. The meeting fee increases by \$90 after that date for STLE members, non-members and those who register on site. STLE also offers a one-day meeting registration, and for the first time attendees have the option of taking an education course without registering for the meeting.

#### **Extended Abstract Information**

STLE has added one wrinkle to this year's event. Instead of issuing a Proceedings CD with extended abstracts of select meeting presentations, STLE now is hosting that information on a Website accessible to all registered attendees. The Website is password protected, so you must register for the conference to access the abstracts.

If you are a presenter, the deadline for submitting your extended abstract is April 30. For information on how to submit your abstract, click here. If you have questions, contact Karl Phipps at STLE at [kphipps@stle.org](mailto:kphipps@stle.org), 847-825-5536.

Hope to see you there,  
Bruce Murgueitio  
Digital Marketing Manager  
[bmurgueitio@stle.org](mailto:bmurgueitio@stle.org)  
(847)825-5536

#### **Special Symposium and Joint Sessions at STLE 2014, 18 – 22 May 2014, Lake Bena Vista, Florida, USA.**

STLE2014 is the premier technical event showcasing the latest research in the field of tribology and lubrication engineering through

technical presentation, education courses, discussion panels and much more.

In addition to all the great technical resources, this year's event will host 2 joint technical sessions and a special symposium.

#### **Molecular Chemistry and Lubrication Rheology**

This symposium invites presentation on exploration, understanding, and modeling of lubricants properties and performance based on molecular chemistry.

#### **In Situ Tribology**

(Materials Tribology and Tribotesting Joint Session)

This joint session will cover a multi-disciplinary range of topics encompassing the use of novel and emerging in situ techniques to provide greater insight about interfacial process and phenomena, materials characterization, and the mechanisms of contact mechanics and adhesion within a buried interface. [\[Click here for more details\]](#)

#### **Nanoscale Phenomena In Materials Tribology**

(Materials Tribology and Nanotribology Joint Session)

This joint session will cover a wide range of topics involving the use of nanotribological characterization techniques, with a particular interest in in-situ nanotribological methodologies, to provide a better understanding of the nanoscale interfacial process. [\[Click here for more details\]](#)

Interested authors can submit abstracts at the following link

<http://stle2014.abstractcentral.com>

**LUBMAT 2014, 25 – 27 July 2014:** a conference and exhibition on Lubrication, Maintenance and Tribotechnology in the Hilton Manchester Deansgate Hotel, UK. For further information go to <http://www.lubmat2014.org/>.



**X Anniversary International  
conference "Lubricants Russia  
2014" - 1195 Euro\*12-13 November  
2014.**

**14 November 2014. International  
conference "Greases Russia 2014" -  
450 Euro\***

Accompanying Exhibition: Standard  
Exhibition Booth (3x2m) - 2250 EUR\*

To register please contact Elena  
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conferences.com](http://rpi-conferences.com)