



SAIT Newsletter

SAIT Tribology 2011 10th International Tribology Conference

Our 10th International Conference, Tribology 2011, to be held at the University of Pretoria from 5 – 7 April, is gaining momentum.

The programme will include presentations on:

- 'High Performance Greases - Definition, Formulation, Properties and Application';
- 'Comparative Study of Bitumen Oils'; 'Grease Removal - The Environmentally Friendly Answer';
- 'Green Tribology - Environmentally-friendly Micro-dosing of Lubricants in Aluminium Metalworking Operations - A Case in Point';
- 'Sliding Wear of Carbides Manufactured by Spark Plasma Sintering';
- 'Mechanisms of Wear and Methods of Measurement';
- 'Friction and sliding wear of WC-12Co and WC-10VC-12Co thermal spray coatings';
- 'Prediction of Tribological Properties of Al6061 -TiO₂ composites using Artificial Neural Networks (ANN) Approach';
- 'SAIT Tribology 2010 Project';
- 'The erosion-corrosion of steels under oxidizing conditions at high temperature';
- 'The stand for tribological research of friction couples under conditions their increased wear resistance'.



Presenters and delegates will come from as far afield as Poland, Estonia, India, Sweden, the United States of America and Germany, as well

as from South Africa's most respected universities and tribologically-related companies.

Delegate registration is now open. Please complete the form on the last page of this newsletter and return it by e-mail at secretary@sait.org.za; fax +27 11 804-4972 or 086 719-2261; or post to The SAIT, PO Box 1240, Kelvin, 2054 South Africa.

Annual Awards Dinner

This year's Annual Awards Dinner will be combined with Conference Banquet.

Date: Wednesday 6 April

Venue: Central Hall, Conference Centre, University of Pretoria, University Road, Hillcrest, Pretoria.

Time: 19:00 for 19:30

Price: R300-00 per person.

Please contact Gill or Isabel at 011 802-5145 or secretary@sait.org.za or admin@sait.org.za for reservation details.

2011 Annual General Meeting

This year's Annual General Meeting is scheduled for 3 May 2011. Further details will follow closer to the time.

STLE - CLS, OMA & CMFS EXAMS & "SAIT CLS STUDY COURSE"

The South African Institute of Tribology will host the Certified Lubrication Specialist (CLS), the Oil Monitoring Analyst (OMA) and the Certified Metalworking Fluids Specialist (CMFS) examinations of the Society for Tribologists & Lubrication Engineers (STLE) on **Friday 20 May 2011**. The venue is Science Park and the time from 09:00 to 12:00. **The exam is open to SAIT members in good standing.**

The SAIT will present the two-day **SAIT CLS Study Course** (18 & 19 May 2011) immediately before the exam to help prepare for it. Attendance 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%. **Registration for the SAIT CLS Study Course closes on 1 April 2011.**

For further information please contact Gill Fuller at phone +27 11 802-5145, or e-mail her at secretary@sait.org.za.

SAIT Training Courses, February 2011

During February, the SAIT ran three courses in Johannesburg:

Introduction to Lubrication Engineering:

– one day course. The next course will be held on **7 September** at Science Park, Kelvin, Sandton.

Introduction to Wear and Materials:

– one day course. The next course will be held on **8 September** at Science Park, Kelvin, Sandton.

Lubrication Engineering 71:

Was held from Monday 21 – Friday 25 February – 5 day course. 19 candidates attended this successful course, gaining knowledge and enjoying the experience.



The next Lubrication Engineering Course will be held in **Durban from 23 – 27 May**. For information on future courses, also held in Johannesburg and Cape Town each year, contact Gill Fuller or Isabel Bradley at 011-802-5145/6/7/8 or email secretary@sait.org.za or admin@sait.org.za.

Members' Case Study Competition

Over the next 12 months, members are invited to submit tribological case studies to be considered for publication in the SAIT Newsletter. Entries should be no more than 1 page.

Those which are published will receive R400-00 in acknowledgement.



After 12 months a winning case study will be selected and the author will receive a voucher to attend the next SAIT Seminar free of charge.

Entries can be sent to secretary@sait.org.za. Submissions should be approximately 400 words or a page in length.

Tribology in Action



The layers of graphite shear due to the differential friction between the paper and the lead, enabling artists to create masterpieces

The **SAIMechE** offers training courses in many fields of Mechanical Engineering. Their website is www.saimeche.org.za.

International Tribology-Related Events, 2011

STLE 66th Annual Meeting and Exhibition: May 15 – 19, 2011, Atlanta, Georgia. Go to www.stle.org for further information.

Ecotrib 2011, Vienna, Austria: 7 – 9 June 2011. Go to www.oetg.at/ecotrib2011 for more information.

International Tribology Conference, Hiroshima 2011: 31 October – 3 November 2011. E-mail nagamura@mec.hiroshima-u.ac.jp for further information.

VII International Conference, Lubricants Russia 2011: November 9 – 10 2011, Renaissance Moscow Hotel. To register contact Elena Konstantinova at Konstantinova.Elena@rpi-inc.com or go to <http://www.rpi-conferences.com>.

TAE 18th International Colloquium Tribology, Industrial and Automotive Lubrication: 10 – 12 January, 2012 in Stuttgart/Ostfildern, Germany. E-mail info@tae.de for further information; visit website www.tae.de/tribology/; phone +49 71-34008-0 or fax +49 711 34008-65

“TRIBOLOGY 2011” - REGISTRATION FORM			
10th International Tribology Conference University of Pretoria, South Africa, 5-7 April 2011			
Please complete clearly and return to:			
SAIT TRIBOLOGY 2011		tel + 27 11 802-5145/6/7/8	
PO Box 1240		fax + 27 11 804-4972	
Kelvin, Johannesburg		email secretary@sait.org.za	
2054 South Africa		website: www.sait.org.za	
Surname:		Initials	
First name (for use on name tag):			
Title	(Prof/Dr/Mr/Mrs/Ms)		
Business Position:			
Company / Affiliation:			
Company VAT number: (if applicable)			
Tel:			
Fax:			
Cell / Mobile:			
Email:			
Delegate:	<input type="checkbox"/>	Presenting Author:	<input type="checkbox"/>
Payment details: Amount:			
Cheque number			
Direct deposit / bank transfer date			
Payable to:	The SA Institute of Tribology		
Cheque Account No:	1970 490 438		
Bank:	Nedbank		
Branch:	Sandton	197 005	
Swiftcode:	NEDSZAJJ		
<i>NB: All bank charges are payable by the participant.</i>			
Will you attend the banquet? delegate (included in fees) how many guests @R300			<input type="checkbox"/> <input type="checkbox"/>
Any special diets?			
halaal	<input type="checkbox"/>	kosher	<input type="checkbox"/>
vegetarian	<input type="checkbox"/>	other	<input type="checkbox"/>
Will you attend works visits? (for delegates only)		Yes/No	
Will you hire exhibition space?		Yes/No	
Date:		Signature:	