



"understanding friction, lubrication and wear"

SAIT News, August 2014

"TRIBOLOGY 2015"

11th International Tribology Conference

presented by

The South African Institute of Tribology

Dates: 10-12 March 2015

Venue: University of Pretoria Conference Centre, Pretoria, South Africa

Tribology is all about friction and wear, involving materials and lubricants.

The main aim of the conference is therefore to provide participants with an opportunity to present their work, to exchange ideas and results, and to meet people with similar tribological interests. The official language of the conference is English.

Provisional Programme:

Tuesday 10th March: Registration, opening, plenary lecture, technical sessions, cocktail party.

Wednesday 11th March: Technical sessions, works visits, banquet.

Thursday 12th March: Plenary lecture, technical sessions, closure.

Guest Speakers:

Our invited guest speakers on this occasion are **Professor Gwidon Stachowiak**, Head of the Tribology Laboratory, School of Civil & Mechanical Engineering, Curtin University, Perth, Australia, and **Professor Wilfred Tysoe**, Distinguished Professor, University of Wisconsin-Milwaukee, Wisconsin, USA.

Prof Stachowiak's current research interests are focused mainly on the development of methods for the description of multiscale 3D surface topographies, optimization of 3D surface textures for hydrodynamic contacts and prediction of osteoarthritis in knee joints based on x-rays and tribocorrosion. He has received several large research grants and is a



Gwidon Stachowiak

published author with close on 200 journal publications since 1991. He is editor of several books on tribology, including 'Engineering Tribology', a textbook of which the fourth edition was published in November 2013. He was invited Professor at: Ecole Centrale de Lyon, France in 2012, Kyushu University, Japan in 2012, Tohoku University, Japan, in 2005, the Laboratory for Surface Science and Technology, Swiss Federal Institute of Technology, Zurich, Switzerland, in 1996 and



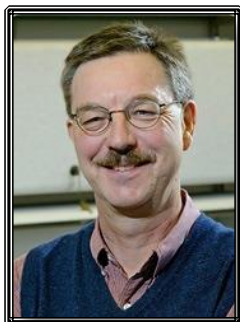
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2004, and the Department of Materials, Laboratoire de Metallurgie Chimique, Ecole Polytechnique Federale de Lausanne, Lausanne, Switzerland, in 1991 and 1992.

He has twice been awarded the George Julius Medal by the Institution of Engineers in Australia and in 2011 received a Doctor Honoris Causa from the Ecole Centrale de Lyon, France, for his eminent services to science and education. In 2009 he was awarded an STLE Fellowship and in 2013 he received the ASME Fellowship.

Adapted from <http://Mech-Eng.Curtin.Edu.Au/Tribology/People.Cfm/Gwidon.Stachowiak>



Wilfred Tysoe

Prof Tysoe's research program focuses on understanding chemical reactions occurring at surfaces – the interface between a solid and a gas or liquid. Another major focus is catalysis, where the rate of a chemical reaction is

accelerated through the

presence of another substance – in this case, a particular surface. A recent area of interest is the catalytic chemistry of gold-palladium alloys. While many experiments into chemical reactions on surfaces are conducted in a vacuum to help ensure a clean surface, Prof Tysoe is recognized as one of the few who has succeeded in performing such work under 'real-world', or high pressure conditions. “The idea is to get a fundamental understanding that ultimately will help people who make and design lubricants to do so in a much more rational fashion.”

He is co-founder of the journal, *Tribology Letters*, which has become a leading journal in the field.

Prof Tysoe has been at the University of Wisconsin-Milwaukee since 1984, during which time he has published almost 200 papers, made over 220 presentations, and attracted substantial funding from federal agencies such as the National Science Foundation and the Departments of Defence and of Energy.

Adapted from the article by Peter Hansen at <http://www.graduateschool.uwm.edu/research/spectrum/distinguished-professors/wilfred-tysoe/>

Exhibition and Sponsorship:

Exhibition space is available, and sponsorship is invited. Details are available from the Conference Secretariat.

Copyright:

The SAIT holds the copyright for the publication of accepted papers until after the conference.

Call for Papers:

Abstracts on experimental, theoretical and case studies on the following topics are invited: Industrial Tribology - Problems and Solutions; Lubricants Testing and Condition Monitoring; Wear Processes and Tribology of Materials: EHD, Boundary and Fluid Film Lubrication; Biotribological Applications; Tribology and the Environment, Tribology and Energy.

Please note that no papers will be published in any of the conference proceedings (print or CD), unless presented in person at the Conference by one of the authors.



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Important dates are as follows:

Submission of Abstract	Extended to 30 September 2014
Notification of Acceptance of Abstract	Latest, by 30 October 2014
Third Announcement & Registration	30 Nov 2014
Submission of Final Paper	31 Dec 2014
Final Programme & Registration	15 Feb 2015

International Liaison Committee:

Prof Wilfried J Bartz	TAE, Esslingen, Germany
Prof Bharat Bhushan	Ohio State University, USA
Prof Enrico Ciulli	University of Pisa, Italy
Dr Ali Erdemir	Argonne National Laboratory, USA
Prof Kenneth Holmberg	VTT, Finland
Prof H Peter Jost	ITC, London, UK
Prof Hugh Spikes	Imperial College, London, UK
Prof Margaret Stack	University of Strathclyde, Scotland
Prof Kristian Tonder	NTNU Trondheim, Norway
Prof John A Williams	University of Cambridge, UK

Registration Fees:

The registration fee includes attendance at all conference sessions, the proceedings, lunches, teas, cocktail party, banquet, a technical visit and 14% VAT.

SAIT members	R6 783
Non-members	R7 467
Presenting Authors *	R4 161
Exhibitor's Fee and Stand	R9 650
Students **	R2 166
Banquet (accompanying persons)	R 380

* **Authors:** Only one presenting author per paper at the discounted fee.

** **Students:** Students are bona-fide fulltime registered undergraduate or postgraduate students, and student registration forms should be accompanied by a signed statement by the Head of the Department verifying student status.



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Cancellations: Cancellations should be in writing, as follows:

<i>up to 31 December 2014</i>	<i>R500 bank admin fee</i>
<i>from 1 January 2015</i>	<i>20% cancellation fee</i>
<i>from 10 February 2015</i>	<i>No refund.</i>

Substitute delegates will be accepted.

Payments: By cash, electronic funds transfer (EFT) or direct deposit. All bank charges are payable by the participant.

Conference Secretariat:

Mrs Gillian Fuller Secretary
Mrs Isabel Bradley Assistant Secretary
SAIT
PO Box 1240 **Tel** +27 11 804-3710
Kelvin **fax** +27 86 719-2261
2054 South Africa

Emails: secretary@sait.org.za
and admin@sait.org.za
website: <http://www.sait.org.za>

Sponsors:



SAIT Programme 2014-15

**8 September, 18:00: Monday
Evening Technical Meeting - “Engine
Coolants”, Presented by Bob
Shorter of Chevron, USA.** Science Park,
1 Northway, Kelvin, Johannesburg. Phone 011
804-3710 or e-mail Gill at
secretary@sait.org.za or admin@sait.org.za if
you wish to attend.

**15 – 19 September 2014: Lubrication
Engineering Course (92) – Science
Park, 1 Northway off Marlboro Drive, Kelvin,
Sandton, Johannesburg. Please note –
this course is fully booked.**

**14 October 2014: Afternoon Seminar,
‘Hydraulics’.** Full programme will be issued
shortly.

**20 – 24 October 2014: 5-day
Lubrication Engineering Course (93)
– Science Park, 1 Northway off Marlboro
Drive, Kelvin, Sandton, Johannesburg.**



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Please note – this course is fully booked.

19 & 20 November 2014: SAIT CLS Study Course – Science Park, 1 Northway, off Marlboro Drive, Kelvin, Sandton, Johannesburg.

21 November 2014: STLE - CLS, OMA & CMFS exams – Science Park, 1 Northway off Marlboro Drive, Kelvin, Sandton, Johannesburg. E-mail Gill at secretary@sait.org.za of Isabel at admin@sait.org.za if you need further details, or phone them at 011 804-3710.

2 – 6 February 2015: Lubrication Engineering Course (94) – Science Park, 1 Northway off Marlboro Drive, Kelvin, Sandton, Johannesburg. E-mail Gill at secretary@sait.org.za of Isabel at admin@sait.org.za if you need further details, or phone them at 011 804-3710.

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.

International Tribology Events:

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/>.

7th International Colloquium: Micro-Tribology 2014, September 7-11, 2014, Osieck-Warsaw. For further information, please contact : Zygmunt Rymuza [<mailto:z.rymuza@mchtr.pw.edu.pl>]



X Anniversary International conference "Lubricants Russia 2014" - €1195*, 12-13 November 2014 and International conference "Greases Russia 2014" - €450*, 14 November 2014. For more information please see:
<http://www.infineuminsight.com/trends/technology-trends/trends-2014-coming-soon>
<http://www.rpi-conferences.com/conference/?cnf=139>
http://www.rpi-conferences.com/conference/?cnf=139&pg=delegat_about

TriboBR

Second International Brazilian Conference on Tribology - TriboBR-2014

Second International Brazilian Conference on Tribology - TriboBR-2014, 3 – 5 November 2014. For more information go to the website:
<http://www.abmbrasil.com.br/seminarios/tribologia/2014/general-information.asp>



The 10th International Colloquium "Fuels" Conventional and Future Energy for Automobiles will take place from 20 to 22 January 2015 in Stuttgart / Ostfildern. Current information and online submission of papers at www.tae.de/fuels

Malaysian International Tribology Conference 2015 (MITC2015), Penang, 16-17 November 2015. For full information, go to: <http://mitc2015.mytribos.org/>



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SAIT Members are invited to attend a Technical Presentation arranged by OCCA:



OCCA
The Oil & Colour Chemists' Association

OCCA TECHNICAL PRESENTATION

ALL WELCOME

Presenter: Ken Marx – OCCA Member

“Pigment Dispersion and Particle Size Analysis”

(abstract attached)

Wednesday, 10th September 2014

17h30 for 18h00

The Venue is Reading Golf Club, Alberton

<http://readingcc.co.za/>

Refreshments Provided with a Cash Bar

Please RSVP to: bev@jabelo.co.za



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SAIT Members are cordially invited by The President and Council of SAIMEchE to attend the:

SAIMEchE John Orr Lecture 2014

Lecture Details:

**"A Look into the Future of Road Transport Vehicles"
by Dr Thomas Gillespie, Ph.D.**

Date: 9 September 2014 (Tuesday)

Time: 17:30 for 18:00

Venue: Wits University, Senate Room, 2nd Floor, Senate House, East Campus, Braamfontein

More information and registration is available on the SAIMEchE Calendar at www.saimeche.org.za, or send an e-mail to info@saimeche.org.za.