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Tribology Society of India is proud to present

ASIATRIB - 2014

27-30 January, 2014

At New Delhi, India

Theme: Green Tribology

ASIATRIB - 2014, 27-30 January 2014, at New Delhi, India

ASIATRIB-2014 is the upcoming mega event in the series of Tribology Conferences being organized once in every four years by the **Asian Tribology Council (ATC)**, the apex body National Tribology Societies from Asia-Pacific countries such as Japan, China, Australia, India, Korea and others. The previous event, AUSTTRIB-2010, was organized at Perth, Western Australia in December 2010. At the concluding session of AUSTTRIB-2010, **Tribology Society of India (TSI)** successfully won the bid to host the next event in India in 2014.

This prestigious event, ASIATRIB-2014, has now been planned under the aegis of TSI during 27-30 January 2014 in New Delhi. ICIT-2014, the biennial international conference of TSI due in 2014, will be merged with ASIATRIB-2014.

Theme of the Conference: Green Tribology

Tribology (from the Greek word 'tribo' meaning 'to rub') is defined as "the branch of science and technology concerned with interacting surfaces in relative motion and with associated matters (as friction, wear, lubrication and the design of bearings)". The term was coined for the first time in 1966 by Prof. H. Peter Jost, then the Chairman of a Working Group of lubrication engineers, in his published report for the UK Department of Education and Science. It was reported that huge sums of money were being lost in the UK annually owing to the consequences of friction, wear and corrosion. As an outcome of this pioneering study, several centers for Tribology study and research were created in many countries. Since then, the

subject has become an integral part of engineering field, and specialists in this domain are now known as Tribologists.

Typical tribological studies cover friction, wear, lubrication and related aspects, and involve the efforts of mechanical engineers, material scientists, chemists and physicists. Since the creation of the word "Tribology" almost 50 years ago, many new areas of Tribological studies have emerged. These include: Nano-Tribology, Bio-Tribology, Nuclear Tribology, Space Tribology, Tribology of various specific systems such as magnetic storage devices, Micro-Electro-Mechanical Systems (MEMS), Nano-Electro-Mechanical Systems and so on. Thus, Tribology has become a truly multi-disciplinary domain and a key



driver of current scientific and industrial research efforts.

Recently, the new concept of "Green Tribology" has been defined as 'the science and technology of the Tribological aspects of ecological balance and of environmental and biological impacts' - H. P. Jost (2009). Prof. Jost gave the credit for coining the term "Green Tribology" to Prof. Si-wei Zhang of China, who "launched it as a Tribology policy in London on 8th June of year 2009, which date can be regarded as the acknowledged birthday of Green Tribology as an international concept." It is envisaged that, by highlighting the economic benefits of Tribology, various Tribology Societies, Groups and Committees can greatly influence policy-making processes in future. Prof. Jost has emphasized that "Tribology Societies should highlight to the utmost the economic advantage of Tribology. It is the language financial oriented policy makers and markets, as well as governments, understand".

The specific field of **Green Tribology emphasizes the importance of energy and material conservation to achieve environmental sustainability.** This includes Tribological technology that mimics living nature (biomimetic surfaces) and thus is expected to be environment friendly; the control of friction and wear for energy and material conservation; environmental aspects of lubrication and surface-modification techniques and Tribological aspects of green applications, such as wind-power turbines, tidal turbines or solar panels. It is clear that the subject of Green Tribology will have far-reaching consequences in the scientific, industrial and economic pursuits in future.

ASIATRIB-2014 will showcase various aspects of Green Tribology, as mentioned above, along with traditional topics of Tribology research and

application, which are of interest to the industry and academia.

Tribology Society of India is proud to have the privilege of organizing this international mega event. ASIATRIB-2014 is being designed to offer comprehensive networking opportunities for engineers, scientists and researchers with many attractions, such as:

- Pre-Conference education courses for students and industry professionals
- Invited talks by internationally renowned Tribologists
- Technical Sessions showcasing the latest work in Tribology research, application, education and training
- Technical Exhibition covering products and services from across the world
- Business Meet Sessions for manufacturers and service providers to present their offerings to a captive audience

TSI cordially invites you to actively participate in this event as an author, delegate, exhibitor or Business Meet presenter. Opportunities exist for corporates, institutes and other organizations to sponsor the event and advertise in the conference souvenir and at the venue of the event. Details of technical program and other sessions of ASIATRIB-2014 will be announced soon.

Please mark your calendar for ASIATRIB-2014 during 27-30 January 2014 at New Delhi, India and be sure to be there for an enriching and professionally rewarding experience.

For further details please contact:



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Tribology Society of India

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