

Introduction

The **European Conference on Tribology 2009 (ECOTRIB 2009)** is the second biennial Conference primarily focused on the economy and industrial landscape of central and southern Europe. This event is co-organized by the Italian Tribology Association, the Austrian Tribology Society, the Slovenian Society for Tribology, and Swiss Tribology. The Conference coincides also with the 7th AIMETA International Tribology Conference (AITC), organised by the Tribology Group of AIMETA that merged in this Conference since 2007.

ECOTRIB 2009 will provide an international forum for researchers from industry and academia to discuss the latest developments in Tribology, covering friction, wear and lubrication. Tribology bears on almost every aspect of our daily lives. It is the underpinning science and technology which has the potential to impact positively on all aspects of our health, wealth and quality of life, including how we generate and conserve energy, reduce friction and wear, and preserve our environment. The purpose of ECOTRIB is to offer an opportunity to examine the state of the art and a perspective of scientific and technological achievements in selected areas through invited speakers. Conference aims are also to provide researchers with a forum to present their findings and to provide practitioners with a way to relate their experience and solutions to specific topics.

Topics

ECOTRIB 2009 will focus on important scientific and industrial issues concerning **Biotribology**, **Ecotribology**, and **Surface Coatings and Treatments**.

- **Biotribology**

Biotribology covers all human and animal aspects related to friction, wear and lubrication. Human tribology is mainly focused on natural and artificial joints, but includes also aspects of cardiovascular and dental fields, as well as studies on skin, hair and eyes. Animal biotribology, related to the concept of biomimetics, has enormous potential for bioinspired engineering solutions.

- **Ecotribology**

Environmental Tribology includes all aspects related to energy and material saving and to reduced impact on

the environment. Wear reduction generates savings on materials, while low friction reduces energy consumption. Limited resources, increasing costs and negative environmental impact of mineral oils make the research on environmentally compatible lubricants and lubricant biodegradability increasingly important.

- **Surface Coatings and Treatments**

The design of a surface and a substrate by means of traditional and innovative surface technologies results in cost effective and unique tribological performance enhancement of the components. The development of wear-resistant low-friction coatings and surface treatment technology can reduce the need of lubricant and increase durability and resistance to wear and corrosion. Applications include engines, transmission components and cutting tools.

In addition, presentations on all aspects of **Tribology** are welcome. They should address in particular, but not exclusively, the following topics:

- **Lubricants and Additives**
- **Boundary and Mixed Lubrication**
- **Hydrodynamics and Elastohydrodynamics**
- **Hydrostatic Lubrication**
- **Gas and Magnetic Levitation**
- **Friction and Wear**
- **Contact Mechanics**
- **Micro and NanoTribology**
- **Maintenance, Monitoring and Diagnostics**
- **Tribology of Machine Elements**
- **Tribology in Manufacturing**
- **Tribology of Materials**

Abstracts

Contributions are invited both in the form of oral and poster presentations. Authors are requested to submit extended abstracts of no more than one page (including tables, figures and list of references), providing sufficient details of the work and indicating one or two of the above topics. The abstract must be edited according to the guide for authors that can be found on the ECOTRIB 2009 webpage:

<http://ecotrib2009.ing.unipi.it>

The deadline for submission of abstracts is 30 November 2008.

Reply Card

(Please detach and return)

Yes, I intend to participate in the ECOTRIB 2009 Conference

- with an oral presentation/paper
- with a poster presentation/paper
- as a participant

The title of my proposed paper is:

Topic (one or two):

Keywords (max. 5):

I need the following equipment:

- overhead projector slide projector
- computer beamer computer

Name: _____

Title: _____

Affiliation: _____

Postal address: _____

ZIP: _____ City: _____

Country: _____

Tel.: _____ Fax: _____

E-mail: _____

(Please use capital letters or type)

Conference proceedings

All accepted papers will be published in the Conference proceedings, distributed to the participants in the Conference.

The best papers presented at the Conference will be selected for publication in special issues of peer-reviewed international journals.

Registration, submission and contacts

Please note that the main source of updated information for the Conference is the web page:

<http://ecotrib2009.ing.unipi.it>

It should be used for registration and for abstract and full paper submission.

Alternatively, the following e-mail, postal or fax addresses can be used:

ecotrib2009@ing.unipi.it

ECOTRIB 2009
DIMNP – University of Pisa
Via Diotallevi, 2
56126 Pisa - Italy

Fax: +39 050 836 665

Phone:
+39 050 836 661 (Enrico Ciulli)
+39 050 836 676 (Francesca Di Puccio)

Important dates

Abstract submission:

30 November 2008

Notification of acceptance:

15 January 2009

Final manuscript submission:

31 March 2009

Deadline for reduced Conference fee:

31 March 2009

Language

The official language of ECOTRIB 2009 is English.

Conference Location

The biennial **European Conference on Tribology ECOTRIB 2009** will take place in Pisa, Italy.

The city of Pisa is situated in western Tuscany, not far from the Mediterranean Sea. Its urban plan of reduced dimensions presents continuous testimony of historical events and cultural epochs that reflects its millenary development. Thus, within the medieval heart of the city, archaeological findings emerge from the Etruscan and Roman Pisa, and monuments have been standing since it was a Maritime Republic.

Beside the University of Pisa, founded in 1343, two other Academic Institutions are located in Pisa: the Scuola Normale Superiore, founded by Napoleon in 1810, and the Sant'Anna School for Advanced Studies, working in the field of applied sciences.

Pisa's airport "Galileo Galilei" is only 2 km away from the city centre and it is connected with the major Italian airports and with many cities of Europe and the rest of the world.

Organising Committee

Enrico Ciulli, University of Pisa (Italy)
Bruno Piccigallo, Accademia Navale Livorno (Italy)
Francesca Di Puccio, University of Pisa (Italy)
Enrica Cane, SKF Industrie S.p.A. (Italy)
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Andreas Pauschitz, AC2T research (Austria)
Bojan Podgornik, University of Ljubljana (Slovenia)
Branko Kus, OLMA Lubricants (Slovenia)
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Martin Kirchgassner, Castolin GmbH (Austria)
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Jan Fiala-Goldiger, VSS (Switzerland)
Götz Thorwarth, Empa (Switzerland)



**First Announcement and
CALL FOR PAPERS**

ECOTRIB 2009

**European Conference
on Tribology**

Pisa, Italy
June 7 - 10, 2009

<http://ecotrib2009.ing.unipi.it>

Co-Organized by



Italy



Austria



Slovenia



Swiss Tribology
Switzerland