

PROCEEDINGS OF THE FIRST WORLD CONFERENCE IN INDUSTRIAL TRIBOLOGY NEW DELHI : 1972

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Edited by

Dr R. C. MALHOTRA

**Head & Professor of Applied Mechanics Department
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New Delhi-110029, India**

and

Dr. J. P. SHARMA

**Head of Tribology Laboratory & Asst. Professor
Mechanical Engineering Department
Indian Institute of Technology,
New Delhi-110029, India**

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PREFACE

This volume records in part the technical material presented at the First World Conference in Industrial Tribology during December 11-18, 1972. In this publication, the papers are selected from a number of contributions received from all over the World. The reviewers carefully selected the papers for presentation in this conference. Care has been taken to incorporate in this volume papers ranging from the importance of Tribology and research oriented to various industrial problems. However, basic and latest research in Tribology is also incorporated in it to cover the broadness of Tribology as an interdisciplinary area.

The papers presented at various sessions are classified as :

Tribology & Design ; Additives, Grease and Petroleum Products ; Control Fluids, Experimental Methods and Tribology in Medical Engineering ; Materials, Metallurgy and Engine Lubrication ; Elasto-hydrodynamic lubrication ; Friction and Wear ; Tribology in Production Process ; Gears and Bearings ; Tribology and Planning in Industry.

A sample survey on Industrial Tribology undertaken by the Conference has revealed a good potential for expansion of this work in India. Three typical cases from industrial organisations on Industrial Tribology were also discussed.

A proposal has been prepared for inclusion of Tribology and Planning in the Fifth Five Year Plan of the country for the Ministry of Planning and the Department of Science and Technology with a view of expansion of the discipline at top priority. A 20% and more net saving is assured if scientific application of Tribology is undertaken by the Indian Industries during the next few years. With a view to promote such activities, the conference delegates have recommended that the organising committee of World Conference, its Chairman and its Convener should attempt to form an Indian Society for Industrial Tribology. Such a body will further promote the formation of an International Society for Industrial Tribology with its secretariat in Delhi. All enquiries concerning the proposed Indian Society for Industrial Tribology may be addressed to :

Dr. J. P. Sharma
Convener
Indian Society for Industrial Tribology
c/o Department of Mechanical Engineering
Indian Institute of Technology
Hauz Khas, New Delhi-110029 (India)

The real and permanent contribution to the 1972 first World Conference in Industrial Tribology were those of the delegates and the numerous authors. We are very grateful to them for their active participation.

We gratefully acknowledge the tremendous work put in by Mr. L. J. Haravu, Deputy Librarian and Mr. Rishi Kant Jha, Pool Officer, both of Indian Institute of Technology, New Delhi, in the publication of this Proceedings. This get up in no way would have been possible without their effort. We also acknowledge the role of the Technical Review Committee and thank all the members for their assistance.

July 1973

R. C. MALHOTRA
J. P. SHARMA

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(December 11-18, 1972)

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Professor & Head of Mechanical
Engineering,
University College of Swansea,
Singleton Park,
Swansea SA2 8PP
(U.K.)



C. Sundara Rao
Lt. General,
Director of Electrical and
Mechanical Engineering Corps
Army Headquarters,
New Delhi-11
(INDIA)

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A. Towle
Technical Director
Lubrizol (U.K.) Limited,
Elliot House,
Allington Street,
London, SW1E 5EQ,
(U.K.)



J. S. Ahluwalia
Head, Research and Develop-
ment Centre,
Indian Oil Corporation,
Surya Kiran Building,
Connaught Place, New Delhi-1
(INDIA)



A. Schilling
Institut Francais Du Petrole,
1 & 4, avenue de Bois-Preau,
Rueil-Malmaison 92502
(FRANCE)



Sitharama K. Rao
Chief Technical Engineer,
Indian Oil Corporation
(Marketing Division)
254-C, Dr. Anne Besant Road,
Prabhadevi, Bombay 25
(INDIA)

**Session 'C' : Control Fluids, Experimental Methods and
Tribology in Medical Engineering**



P. Dransfield
Associate Professor,
Department of Mechanical
Engineering,
Monash University,
Clayton, Victoria 3168
(AUSTRALIA)



R. C. Malhotra
Professor and Head,
Applied Mechanics Department,
Indian Institute of Technology,
New Delhi
(INDIA)

Session 'D' : Materials, Metallurgy & Engine Lubrication



D. Scott
Head, Tribology & Materials
National Engineering
Laboratory,
East Kilbride, Glasgow
(U.K.)



M. G. Krishna
Director, Indian Institute of
Petroleum,
Dehradun,
(INDIA)

Session 'E' : Elasto-Hydrodynamic Lubrication



C. M. Rodkiewicz
Professor, Department of
Mechanical Engineering,
University of Alberta,
Edmonton 7, Alberta
(CANADA)



B. M. Belgaumkar
Technical Consultant,
Indian Agricultural Engineering
Consultants,
14 Goodwill Building,
Mammala Tank Lane,
Mahim, Bombay-400016
(INDIA)

Session 'F' : Friction and Wear



Tak Jin Moon
Head, Analytical Chemistry
Laboratory,
Korea Institute of Science &
Technology,
PO Box 131,
Cheong Ryang, Swoul,
(SOUTH KOREA)



B. Karunes
Professor, Department of
Applied Mechanics,
Indian Institute of Technology,
New Delhi
(INDIA)

Session 'G' . Lubrication in Production Process



J. Halling
Professor of Engineering
Tribology,
University of Salford,
Salford M5WT
(U.K.)



J. Nanda
Director,
Defence Research Laboratory
(Materials),
PO Box 320, Kanpur-4
(INDIA)

Session 'H' : Gears and Bearings



G. Williams
Manager,
Works Lubrication Department,
British Steel Corporation,
Port Talbot Works,
Port Talbot, Glamorgan
(U.K.)



C. P. Arora
Professor, Mechanical
Engineering Department,
Indian Institute of Technology,
New Delhi
(INDIA)



H. Christensen
Professor, Head of Research,
Department of Machine Design,
NTH-SINTEF,
N-7034 Trondheim
(NORWAY)

Session 'I' : Convention on Tribology and Planning in Industry (Case Study discussions on 3 typical Industrial Problems)



B. K. Ahuja
Professor and Head,
Department of Mechanical
Engineering,
Indian Institute of Technology,
New Delhi-29
(INDIA)

Rapporteur-General :

Karunes, B., Professor in Applied Mechanics, Indian Institute of Technology, Delhi.

Rapporteurs :

Chawla, O. P., Asst. Professor, Mechanical Engineering, Indian Institute of Technology, Delhi.

Dave, R. K., Reader in Mechanical Engineering, Government Engineering College, Jabalpur.

Goel, P. K., Head, Product Application Division, Indian Institute of Petroleum, Dehradun.

Jha, Rishi Kant, Pool Officer,* Mechanical Engineering Department, Indian Institute of Technology, Delhi.

Mittal, R. K., Asst. Professor in Applied Mechanics, Indian Institute of Technology, Delhi.

Rao, B. V. A., Professor in Applied Mechanics, Indian Institute of Technology, Madras.

Rao, R. A., Technical Service Engineer, Lubrizol (India) Ltd., Bombay.

Sareen, B. K., Lecturer in Mechanical Engineering, Indian Institute of Technology, Delhi.

Sekhon, G. S., Asst. Professor in Applied Mechanics, Indian Institute of Technology, Delhi.

Shukla, J. B., Asst. Professor in Mathematics, Indian Institute of Technology, Delhi.

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Gopalan, N. K., Scientific Advisor to Chief of Air Staff, Ministry of Defence, Govt. of India, New Delhi.

Karunes, B., Professor in Applied Mechanics, Indian Institute of Technology, Delhi.

Rao, B. V. A., Professor of Mechanical Engineering, Indian Institute of Technology, Madras.

Rowe, G. W., Professor of Mechanical Engineering, Birmingham University, Birmingham, U.K.

Sharma, J. P., Head of Tribology Laboratory, Mechanical Engineering Department, Indian Institute of Technology, New Delhi.

Shukla, J. B., Assistant Professor in Mathematics, Indian Institute of Technology, Kanpur.

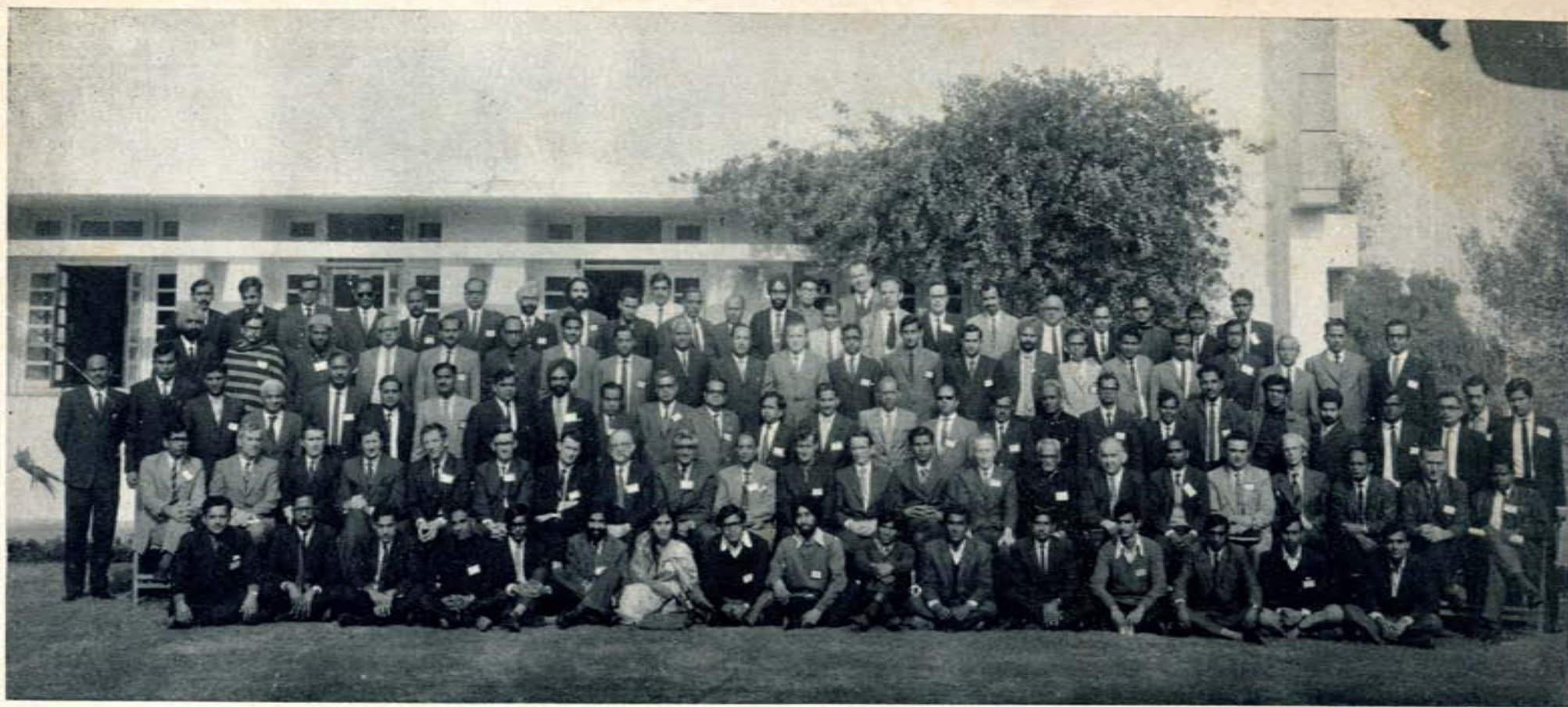
Singh, D. V., Professor in Mechanical Engineering, University of Roorkee, Roorkee.

Venkatesh, V., Professor, Production Engineering, Indian Institute of Technology, Madras.

Chairman, Review Committee :

Karunes, B., Professor in Applied Mechanics, Indian Institute of Technology, Delhi.

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