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Résumé

Mihir Sarangi

The quality of a person's life is in direct proportion to their commitment to excellence, regardless of their chosen field of endeavor.

Professional Skills Motivated and professional engineer with

- Relevant knowledge in the field of Design Engg
- Hydrodynamic and Elastohydrodynamic Lubrication.
- Elastohydrodynamic Lubrication of Cylinder and Piston ring.
- Vibrations, Tribology and Rotor-Bearing systems
- Fault identification in rotary machinery
- Adequate computational, analytical and experimental skills.

Education

- **Post Doctoral** Bearing and Seals Laboratory, August 2005 (Contd.)
  Mechanical Engineering, *University of Kentucky*, Lexington, USA
  Area of Research : Lubrication in Textured Surfaces.

- **PhD** Mechanical Engg, (completing by 31 July, 2005)
  Indian Institute of Technology, Kharagpur, India
  Area of Research : On the Dynamics of Lubricated Ball Bearings.

- **M.Tech** Mechanical Engg (Mechanical Systems Design), January 2003 from
  Indian Institute of Technology, Kharagpur, India
  CGPA: 9.56 (in a scale of 10.0)
  Rank 1st in the specialization

- **B.E** Mechanical Engg, July 2000 from
  Indira Gandhi Institute of Technology, Sarang, Orissa, India
  Percentage of marks: 68.5 %

- **XIIth** +2 Science, April 1995 from
  Maharishi College of Natural Law, Bhubaneswar, India
  Percentage of marks: 55 %

- **School** Passed SSC (Board: BSE, Orissa), April 1994 from
  Unit-1 Boys High School, Bhubaneswar, India
  Percentage of marks: 70.4 %

Significant achievements

- Awarded as '**High Value PhD. Fellow**' by Indian Institute of Technology, Kharagpur, 2005.
- Recipient of **DAAD (German Academic Exchange Service)** scholarship for pursuing studies in Germany, 2002.
- Secured ***98.93*** Percentile in ***GATE*** (Graduate Aptitude Test in Engg) with ***All India Rank 88***, in 2001.

Academic Projects

- **PhD** Currently working on the topic "On the Dynamics of Lubricated Ball Bearings" at Department of Mechanical Engineering, IIT Kharagpur, India.
- **M.Tech** **"**Model Based Fault Identification in Rotor Systems" was carried out in Institute of Mechanics, Technische Universität Darmstadt, Germany.
- **B.E** Stress and wear Characteristics Investigation of Artificial Joints.

Industrial Projects

Client	Organization	Title
General Electric India Technology Centre Pvt. Ltd.	*Mechanical Engg, IIT Karagpur, India.*	*Development of codes for estimating minimum film thickness and traction for ball bearings lubricated with liquid having low-pressure viscosity coefficients.*
General Electric India Technology Centre Pvt. Ltd.	*Mechanical Engg, IIT Karagpur, India.*	*Development of codes for analysis of Herringebone Groove bearings for zero leakage condition of operation.*

Other Research Experience and Interests

- Elastohydrodynamic analysis of Cylinder and Piston ring
- Elastohydrodynamic lubrication with Electrorheological fluids
- Thin film Stokes theory of fluid flow
- Lubricated Artificial Joints
- Multi-grid and Multi-level techniques
- Parallel and Distributive Computing

Computer skills -Windows, DOS
-C, C++, FORTRAN, HTML, JAVA
-MATLAB (five years experience), SIMULINK

PERSONAL DETAILS

Name:	Mihir Sarangi
Father's Name:	Mr. Lokanath Sarangi
Date of Birth:	05th June 1978.
Gender:	Male.
Nationality:	Indian.
Marital status:	Single.
Passport details:	- Passport No: E1334354, Valid until 30th April 2012.
Countries Traveled:	- Germany, France, Belgium, Switzerland, Neitherlands, USA Singapore.
Languages known:	Indian Languages: English, Hindi, Oriya. Foreign Languages: German (Basic).
Other Interests:	- Music, Watching Television - Playing Badminton.
Responsibilities:	- General Secretary, Cyber Alumni Association of India Gandhi Institute of Technology, Sarang, Orissa, India.
My Strengths:	- Commitment. - Honesty and Integrity. - Workaholic nature. - Self-motivation.

LIST OF PUBLICATIONS

1. **Sarangi, M., Majumdar, B. C.** and **Sekhar, A. S.** Stiffness and Damping Characteristics of Lubricated Ball Bearings, Part-I: Theoretical Formulation, *Journal of Engineering Tribology, IMechE Part-J*, **218**, 529-538, 2004.
2. **Sarangi, M., Majumdar, B. C.** and **Sekhar, A. S.** Stiffness and Damping Characteristics of Lubricated Ball Bearings, Part-II: Numerical Results and Application, *Journal of Engineering Tribology, IMechE Part-J*, **218**, 539-547, 2004.
3. **Sarangi, M., Majumdar, B. C.** and **Sekhar, A. S.** Elastohydrodynamically Lubricated Ball Bearings with Coupled-Stress Fluids. Part-I: Steady state analysis**,** ***STLE Tribology*** *Transactions*, 2005, (*accepted and a****rticle in Press***).
4. **Sarangi, M., Majumdar, B. C.** and **Sekhar, A. S.** Elastohydrodynamically Lubricated Ball Bearings with Coupled-Stress Fluids. Part-II: Dynamic analysis, ***STLE Tribology*** *Transactions*, 2005, (*accepted and a****rticle in Press***).
5. **Sarangi, M., Majumdar, B. C.** and **Sekhar, A. S.** On the Dynamics EHD Mixed Lubricated Ball Bearings. Part I - Formulation of Stiffness and Damping Coefficients, *Journal of Engineering Tribology, IMechE Part-J*, 2005. (***accepted***)
6. **Sarangi, M., Majumdar, B. C.** and **Sekhar, A. S.** On the Dynamics EHD Mixed Lubricated Ball Bearings. Part II - Nonlinear Structural Vibration, *Journal of Engineering Tribology, IMechE Part-J*, 2005. (***accepted***)
7. **Sahu, M.**, **Sarangi, M.** and **Majumdar B. C.** Thermo-hydrodynamic Analysis of Herringbone Grooved Journal Bearings, *Submitted to Tribology International*, April 2005.
8. **Sarangi, M., Majumdar, B. C.** and **Sekhar, A. S.** Nonlinear Structural Vibration in Lubricated Ball Bearings, *Submitted to Journal of Sound and Vibration*, May 2005.
9. **Sarangi, M.** and **Majumdar, B. C.** Numerical Analysis of Non-Newtonian Visco-elastic-plastic Thermo-EHL Point Contacts, *1st International Conference on Advanced Tribology,* 1-3 December 2004, Singapore.
10. **Sarangi, M.** Model Based Fault Identification in Rotor Systems Influenced by Shape Expansion Methods, *National Conference on Industrial Problems on Machines and Mechanisms,* 24th - 25th February 2005, Indian Institute of Technology, Kharagpur, India, 2004.