Prof. Sashindra Kr. Kakoty

General Information

Professor

Research Interest:	Tribology, Duct Acoustics, Mechanical System Design, Rural Technology
Deputy Director:	IITGuwahati
Coordinator:	RuTAG-NE IIT Guwahati
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Professional Career

- Professor, Department of Mechanical Engineering, Indian Institute of Technology Guwahati (April, 2008 onward)
- Associate Professor, Department of Mechanical Engineering, Indian Institute of Technology Guwahati (September, 2003 to April, 2008)
- Assistant Professor, Department of Mechanical Engineering, Indian Institute of Technology Guwahati (August, 2000 to September, 2003).
- Assistant Professor, Jorhat Engineering College (October, 1999 to August, 2000)
- Lecturer, Assam Engineering College (January, 1990 to October, 1999)
- Lecturer, Jorhat Engineering College (August, 1985 to January, 1990)
- Executive Trainee, Oil India Limited, Duliajan (May, 1985 to August, 1985).
- Lecturer: Assam Engineering Institute, Chandmari, Guwahati (October, 1984 to May, 1985)
- Site Engineer : Tru-Steel Products (June, 1984 to October, 1984)

Academic Background

Ph.D. Mechanical Engineering (Tribology), (1999) IIT Kharagpur

M.E.: IISc, Bangalore (1989)

B.E.: Assam Engineering College, Gauhati University (1984)

PU (Sc): Nagaon College, Gauhati University 1978

HSLC : Nagaon Govt. Boys' HS School, SEBA 1976.

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Research Highlights:

Research mostly focuses on stability aspects of different types of hydrodynamic bearings. Effect of fluid inertia on the stability of oil bearings, stability of multi-lobe bearings, stability and dynamic characteristics of flexible rotor supported on hydrodynamic bearings, dynamic characterisation of flexible rotor supported on porous oil bearings, stability of textured slider and journal bearings, stability of gas foil bearings (GFBs) are some of the noteworthy studies in this area. The present major concern is Rural Technology and instrumental in developing numbers of lowcost, easy to maintain implements/ machinery for rural masses. Few noteworthy contributions as Coordinator of RuTAG-NE are listed below:

Design and Development of

(i) Eri Cocoon Opener
(ii) High Capacity Improvised Bicycle
(iii) Feed Block making Machine for Yak and Cattle
(iv) Mechanized Production of Muga Fabric
(v) Bamboo Charcoal and Bamboo Vinegar production Technology
(vi) Pulp Pressing Machine for production of Sanitary Napkin
(vii) Betel Nut Cutting Machine
(viii) Hank to Bobbin Machine
(ix) Pirn Winding Machine
(x) Sectional Warping Machine

Implementation of Patented Technology on Mechanized Production of Plain Muga Fabric in joint collaboration of RuTAG-NE and NEDFi is one of the most successful and challenging task.

Most of the products mentioned above have attracted artisans and entrepreneurs. The latest success is the Feed Block Making Machine, which was adopted by National Research Centre on Yak, ICAR, Dirang, Arunachal Pradesh, and 5 machines were distributed among Yak farmers. Besides National Research Centre on Mithun, ICAR, Dimapur, Nagaland, also implemented it for Mithun. Numbers of entrepreneurs have shown interest to go for its commercial production.

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Courses Taught:

1. Tribology of Bearings
2. Machine Design
3. Design of Machine Elements
4. Engineering Design Methodology
5. Industrial Engineering and Operations Research
6. Industrial Noise Control
7. Advanced Engineering Mathematics
8. Manufacturing Technology II
9. Engineering Mechanics
10. Advanced Solid Mechanics
11. Rural Energy
12. Rural Development and Entrepreneurship

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Ph.D. Guidance

Sl. No.	Name of the Student	Thesis Title	Award Date	Regular/ Part-Time	Co-Guide Name
1	Madhumita Kalita	Rotors mounted on Fluid Film Bearings	Feb, 2006	Part-Time	Nil
2	Swarup K Laha	Analysis of Stability and Unbalance Response of Flexible Rotor Supported on Hydrodynamic Porous Journal Bearing	6 December, 2010	Regular	Nil
3	Lintu Roy	Groove locations for optimum performance of two-axial groove and multi-lobe hydrodynamic bearings	April, 2015	Part-Time	Nil
4	T S Reddy	Ganji1 Characterization of Cylindrical and Elliptical Textured Journal Bearing	17 July, 2015	Regular	Nil
5	T M Jamir	Gas Foil Bearing: Stability Analysis Using Different Numerical Models For Foil Structure	17 May, 2016	Regular	Karuna Kalita
6	Ashutosh Kumar	Effect of Non-Newtonian Lubricants on the Performance of Two-Axial Groove and Multi-Lobe Pressure Dam Bearing	29 May, 2020	Regular	_

Ongoing

Sl. No.	Name	Regular/ Part-Time	Co-Guide
1	Kamal Basumatary	Regular	Karuna Kalita
2	Bibhuti Ranjan Bhattacharjya	Regular	Nil
3	Ashutosh Kumar	Regular	NIl
4	Sandeep Bhoi	Part-time	NIL
5	Pranay Kumar Sarkar	Regular	NIL
6	Bhabesh Mahanta	Part-time	Arup K Sarma
7	Nilkamal Kalita	Regular	NIL
8	Suranjit Basumatary	Regular	NIL

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(i) R&D projects

Sl. No.	Name of the Project	Sponsor	Duration	Amount in lakh (Rs.)	Investigators
1	Coupled Modeling and analysis of Gas Foil Bearings with active Bearings Seating.	SERB, DST	3 yrs	25.57500	PI
2	Active Vibration Control in Electrical Machines using Built-in Actuators	DST	3 yrs	35.00	CI
3	Design and Development of a Controller for Bridge Configured Winding based Bearingless Motor	DIT	3 yrs	90.00	CI
4	Feasibility Studies of Generating Electric Power using Helical Water Turbine	APGCL	2yrs	27.2	CI
5	Poverty Alleviation through Mechanization of spawn production of mushroom	North East Council, Shillong	1yr	36.96	PI
6	Rural Technology Action Group – North-East	Principal Scientific Adviser to the Govt. of India	Continuing since 2006	80.00 during 2006-2013	PI
7	Design and development of five-speed automated manual transmission for a mid-sized car	MHRD	1 yr 6 months	7.00	PI
8	Computer aided analysis and design of high speed ball and roller bearings	ARDB	3 yrs	7.40	CI
9	Development of an Efficient Power Module for Wheel Chair	Ministry of Social Justice & Empower-ment	1 yr 6 months	5.00	CI
10	Technical Backup Unit (TBU) at IIT Guwahati for R & D Interface with Khadi and Village Industries Sector	KVIC	4 yrs	4.2438	Co-PI
11	Computer Aided Analysis of High Speed Rolling Element Bearings Based on Elasto-Hydrodynamic Lubrication Theory.	ARDB	3 yrs	4.5	CI
12	Development of twosoftwares for design and analysis of (i) Journal Bearing, (ii) Two-Lobe Bearing.	(For SRIC, IIT, Kharagpur) For SRIC, IIT, Kharagpur	6 months	2	CI

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(ii) Consultancy

S l . No.	Project Title	Funding Agency	Dura-tion	Amount (in lakh)	Role
1.	TPQAC of Kamrup Project under World bank assisted NEER NIRMAL PARIYOJANA (Rural water supply & sanitation project for low income states)	SPMU, PHE, Govt. of Assam under World Bank Project.	36 months	83.99	PI
2.	STSA for Preparation of Integrated Cluster Approach Plan (ICAP) and Detailed Project Report (DPR) For Tuting Cluster, Upper Siang District, Arunachal Pradesh under National Rurban Mission	State Nodal Agency (SNA) Rural Development Department Arunachal Pradesh	4 months	12.55	PI
3.	Development of custom made remotely operable shot blasting system with robotic arms for use in steeply inclined long penstocks at NEEPCO Ltd.	NEEPCO	1 yr	30.00	Co-PI
4.	Feasibility study for implementing HTS generator in place of conventional generator in a hydroelectric power plant	NEEPCO			
5.	Noise abatement in mechanical drilling rig of Oil India Ltd, Duliajan:	Oil India Ltd.	1.5 yrs.	1.6	PI
6.	Third party inspection of the storage tanks fabricated for IOC (AOD), Digboi:	M/S Hazarika & Company, Golai No.2, P.O.: Digboi, Dist: Tinsukia – 786171	2 months		CI
7.	Third party inspection of the storage tanks fabricated for IOC (AOD), Digboi	M/S DU CONS, M.C. Road, Guwahati	2 months	0.23	CI
8.	Awareness camp for the Bell Metal artisans from Hajo in Kamrup District	SISI, Guwahati	2 days	0.30	CI
9.	Vetting of a Feasibility Report on Setting-up of Cold Storage Chain	NERAMAC	3 months	0.70 CI	CI

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(i) JOURNALS

International Journals:

1. S. K. Kakoty and B. C. Majumdar, “Effect of Fluid Inertia on Stability of Flexibly Supported Oil Journal Bearings: Linear Perturbation Analysis”, Tribology International, 32, 217 – 228, 1999.
2. S. K. Kakoty and B. C. Majumdar, “Effect of Fluid Inertia on Stability of Oil Journal Bearings”, J. of Tribology, Trans. ASME, Vol.122, 741—745, 2000.
3. S. K. Kakoty and B. C. Majumdar, “Effect of Fluid Inertia on Dynamic Coefficients and Stability of Journal Bearings”, Proceedings of I.Mech.E., J. of Engg. Tribology, Vol. 214, Part J, 229 – 242, 2000.
4. S. K. Kakoty and B. C. Majumdar, “Effect of Fluid Inertia on Stability of Flexibly Supported Oil Journal Bearings: A non-Linear Transient Analysis”, STLE Tribology Trans., 45(2), 253 – 257, 2002.
5. S. K. Kakoty and V. K. Roy, “Bulk Reaction Modeling of Lined Ducts With And Without Mean Flow”, J. of Acoustical Society of America, Vol. 112(1), 75 – 83, 2002.
6. M Kalitaand S. K. Kakoty, “Analysis of Whirl Speeds for Rotor-Bearing Systems Supported on Fluid Film Bearings”, Mechani cal Systems and Signal Processing, Vol 18,1369-1380, 2004.
7. S. K. Kakoty and V. K. Roy, “Bulk Reaction Modeling of Sound Propagation Through Circular Dissipative Ducts Backed by an Air Gap”, J. of Vibration and Acoustics, Transactions of The ASME, Vol. 128(6), 699 – 704, 2006.
8. Madhumita Kalitaand S. K. Kakoty, “Regarding Stability study of circular and non-circular bearings supporting rigid and flexi ble rotors”, Advances in Vibration Engineering, Vol 6, 2007.
9. S. K. Laha, H. Banjare, S. K. Kakoty, “Stability analysis of flexible rotor supported on finite hydrodynamic porous journal bearing using non-linear transient method”, Proc. IMechE, Part J: J. of Engg. Tribology, Vol. 222, No. 7, pp. 963-973, 2008.
10. S. K. Laha and S. K. Kakoty, “Non-linear dynamic analysis of a flexible rotor supported on porous oil journal bearing”, Comm. In Nonl. Sc. & Num. Simul. Vol. 6(3), 2010, pp. 1617-1631, 2010.
11. Laha, S. K. Kakoty, S. K., “Non-linear dynamic analysis of a flexible rotor supported on porous oil journal bearings”, Commu nications in Nonlinear Science and Numerical Simulation, Volume 16, Issue 3, p. 1617-1631 (2011)
12. L. Roy and S. K. Kakoty, “Optimum Groove Location of Hydrodynamic Journal Bearing Using Genetic Algorithm”, Advances in Tribology, Volume 2013, pp. 1-13, 2013.
13. M. B. Patil, K Kalita, S. K. Kakoty, “Performance Analysis of Gas Foil Bearing with Different Foil Pivot Configuration”, Advances in Mechanical Engineering, Hindawi.com 2013.
14. Lintu Roy and S. K. Kakoty, “Optimum Groove Location of Hydrodynamic Journal Bearing Using Genetic Algorithm,” Advanc es in Tribology, vol. 2013, Article ID 580367, 13 pages, 2013. doi:10.1155/2013/580367 (2013)
15. Milind Babasaheb Patil,Karuna Kalita,, Sashindra K. Kakoty, “Performance Analysis of Gas Foil Bearing with Different Foil Pivot Configuration”, Advances in Mechanical Engineering, vol. 5, First Published January 1, (2013)
16. T. S. Reddy Ganji, S. K. Kakoty, “Effect of Cylindrical Texture on Dynamic Characteristics of Journal Bearing “, International Journal of Recent Advances in Mechanical Engineering, Vol 3, N0. 4 (2014)

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17. Lintu Royand S. K. Kakoty, "Groove location for optimum performance of three- and four-lobe bearings using genetic algorithm", Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, Vol 229, Issue 1, pp. 47 - 63 (2014)
18. Surajit Malik, S. K. Kakoty, "Analysis of dimple textured parallel and inclined slider bearing", Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, Vol 228, Issue 12, pp. 1343 - 1357 (2014)
19. T. S. Reddy Ganji and S. K. Kakoty, "Dynamic Characteristics and Stability of Cylindrical Textured Journal Bearing", International Journal of Recent advances in Mechanical Engineering (IJMECH) Vol.3, No.3, (2014)
20. Ashutosh Kumar and S. K. Kakoty, "Effect of Dam Depth and Relief Track Depth on Steady-State and Dynamic Performance Parameters of 3-Lobe Pressure Dam Bearing," Advances in Tribology, vol. 2017, Article ID 1380367, 11 pages, 2017. doi:10.1155/2017/1380367 (2017)

National Journal:

1. S. K. Kakati, P. Mahanta and S. K. Kakoty, "Performance analysis of pressurized kerosene stove with porous medium inserts", Journal of Scientific & Industrial Research, Vol 66, July 2007, pp 565-569.
2. M. C. Bora, P. Mahanta, S. K. Kakoty, U. K. Saha and A. D. Sahasrabudhe, "Study of quality parameters in vermicomposting", Indian Journal of Biotechnology, Vol 6, July, 2007, pp 410-413.

(ii) CONFERENCE PAPERS -
International conference (Refereed):

1. S. K. Kakoty and B. C. Majumdar, "Effect of Fluid Inertia on Stability of Oil Journal Bearings considering Time History of Film Shape", Proceedings of the 2nd International Conference on Industrial Tribology, Dec.1-4, 1999, Hyderabad, pp 117--123.
2. K. Kalita, S. K. Kakoty and R. Tiwari, "Multi-objective Optimization in Rolling Element Bearing Design", Presented in International Conference on Optimization, SIGOPT 2002, February 17-22, 2002, Lambrecht, Germany.
3. S. K. Kakoty and M. Kalita, "Stability Of Rotors Supported on Fluid Film Bearings", Presented in the Second International Conference on Vibration Engineering and Technology of Machinery (VETOMAC-2), 16-18 December, 2002, Mumbai, India.
4. V. B. Reddy, R. Tiwari and S. K. Kakoty, "Identification of Bearing Dynamic Parameters from Impulse Response of Rotor-Bearing Systems", Presented in the Second International Conference on Vibration Engineering and Technology of Machinery (VETOMAC-2), 16-18 December, 2002, Mumbai, India.
5. B. C. Majumdar and S. K. Kakoty, "Effect of Fluid Inertia on Stability of Hydrodynamic Bearings", 1st International Conference on Computational Methods in Fluid Power Technology Melbourne, Australia 26-28 November 2003.
6. S. K. Kakoty, M. Kalita and T Thivagar, "Nonlinear Time Transient Stability Analysis of Multilobe Bearings", World Tribology Congress III, Washington DC, September, 2005.
7. S. K. Kakoty and KaraliPatra, "Estimation Of Dynamic Parameters And Stability Analysis Of Multilobe Bearings", Presented in IPROM 2005, IIT Kharagpur, February, 2005.
8. S. Kakati, P. Mahanta, S. K. Kakoty, 'Performance Evaluation Of Pressure Stoves With Plant Oil And Kerosene Blends', "In ternational conference on challenges and strategies for sustainable energy, efficiency and environment", Uttar Pradesh Technical University, IET campus, Sitapur Road, Lucknow on 10-11thof June, 2006 (ISBN 81-224-1910-0, Publisher: New Age International (P) Limited). pp.145-151.
9. S. K. Kakoty, S. K. Laha, P Mallik, "Stability Analysis of Two-Layered Finite Hydrodynamic Porous Journal Bearing Using Linear and Nonlinear Transient Method", DETC2007-34416, 2007

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10. S. K. Kakati, P. Mahanta, S. K. Kakoty, "Development of plant oil stove", Presented International Conference on Advances on Energy Research, 12-14 December, 2007, IIT Bombay.
11. S. K. Laha, S K Kakoty, "Effect of unbalance on the dynamic response of a flexible rotor supported on porous oil journal bearing", IUTAM Symposium on Emerging Trends in Rotordynamics, IIT Delhi, 23-26 March, 2009.
12. S. K. Laha, S. K. Kakoty, "On the non-linear dynamics of a flexible rotor supported on porous journal bearing", VETOMAC VI, 13-15 December, 2010, IIT Delhi.
13. B. S. Ramteke, S. K. Kakoty, "Unbalance response of Rotor mounted on Multi Lobe Hydrodynamic Lubrication Bearing." Ac cepted in ASME 2012 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference IDETC/CIE 2012August 12-15, 2012, Chicago, Illinois, USA DETC2012/VIB- 70802
14. L. Roy and S . K. Kakoty, "Stability and flow optimized bearing configuration of two groove bearing.", ISTAM, 58th Congress of the Indian Society of Theoretical and Applied Mechanics (ISTAM), 18-21 December, 2013,BESU,SIBPUR (Extended ab stract accepted and full paper submitted)
15. T. M. Jamir, S. K. Kakoty, "Load Capacity Analysis of Gas Foil Bearing (GFB) for Different Foil Materials", International Confer ence on Advances in Tribology and Engineering Systems, Gujrat Technological University, Ahmedabad, 15-17 October, 2014.
16. T. S. Reddy Ganji, S. K. Kakoty, "Analysis on Micro-elliptical Textured Journal Bearing", 1st International Conference on Ad- vances in Mechanical Sciences, Hyderabad, 14-15 January, 2014.
17. Bibhuti Ranjan Bhattacharjya, Apurba Deka, Nilkamal Kalita, Sashindra Kakoty, "Technology intervention in supari business for economic up liftmen of rural women", International Conference on Science and Innovative Engineering 2015, At Jawahar Engineering college, Chennai, Tamil Nadu, Volume: 5th (2015)
18. B. R. Bhattacharjya & Sashindra Kumar Kakoty, Fostering sustainability in resource constraint society through Frugal Engi- neering Knowledge in the context of Pottery sector of Assam, International Conference on Frugal Innovation for Sustainable Global Development organized by Centre for Frugal Innovation in Africa, 7-8 November, 2017
19. Basumatary K. K., Kakoty S. K., and Kalita K., "Stability Analysis of a Rigid Rotor supported on Gas Foil Bearings under Different Loading Conditions", Proceedings of iNaCoMM, 3rd International and 18th National Conference on Machines and Mechanisms, BARC, Mumbai, 13th to 15th Dec, 2017, Paper ID-23. (ISBN No. 978-981-10-8597-0,ISSN-2195-4356, https://doi:10.1007/978-981-10-8597-0_6
20. Basumatary K. K., Kumar G., Kalita K., and Kakoty S. K. "A Numerical study on Effect of Electromagnetic Actuator on Rigid Rotor Supported on Gas Foil Bearing" ASME Gas Turbine India Conference 2017, Bangalore, India, 7th to 8th Dec, 2017, Paper No. GTINDIA2017-4607, pp. V002T05A006; https://doi:10.1115/GTINDIA2017-4607
21. Basumatary K. K., Kalita K., and Kakoty S. K., "Sub-synchronous Vibration of Rotor Supported on Gas Foil Bearing", Inter- national Conference On Vibration Problems, IIT Guwahati 2017, 29th Nov to 2nd Dec, 2017, Paper ID-82

National Conference (Refereed):

1. S. K. Kakoty and B. C. Majumdar, "The Influence of Fluid Inertia on the Steady-State Characteristics and Stability of Journal Bearings", Proceedings of 8th National Conference on Machines and Mechanisms (NaCoMM—97), IIT, Kanpur, India, pp B-15 – B-26.
2. S. K. Kakoty and B. C. Majumdar, "Stability Characterstics of Finite Journal Bearings including Effect of Fluid Film Inertia us ing Linear and Non-linear Methods", Proceedings of 10th National Conference on Machines and Mechanisms (Na- CoMM—2001), IIT, Kharagpur, India, pp 401--408.

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3. K. Kalita, R. Tiwariand S. K. Kakoty, "Design of Rolling Element Bearings: A Multi Objective Optimization", The Sixth National Conference on Air-Breathing Engines and Aerospace Propulsion held in Koraput in January 2003.
4. S. K. Kakoty, M. Murarka, P Kodati, U S Dixit, "Design of A Modular Mechatronic Wheelchair", Proceedings of 11th National Conference on Machines and Mechanisms (NaCoMM—2003) held in December, 2003 in IIT Delhi.
5. P. Mahanta, S. K. Kakoty, C.B.V.Vittala, S.Kakati, 'Development Of Improved Household Cooking Stove' TH-101, 13th National Conference of "Indian Society of Mechanical Engineers (ISME)", I I T Roorkee, 30-31st December 2003, pp.179. (Awarded certificate of merit).
6. S. Kakati, P. Mahanta, S. K. Kakoty, 'Performance Enhancement Of High Pressure Kerosene Stove Through Porous Medium Inserts', 22nd National Convention of Mechanical Engineers on "Energy Technologies- Strategies for Optimal Utilization of Natural Resources ", The Institution of Engineers (India), 9-10 th September 2006.pp.54-58.
7. S. K. Kakoty, "Combatting sound pollution at drilling rig in Oil India Limited", Proceedings of All India Seminar on Active and Passive Noise Control, IEI, Guwahati, 13-14 November, 2009.
8. S. K. Kakoty, S. K. Laha, "Dynamic Analysis of a Timoshenko Beam Supported on Hydrodynamic Porous Journal Bearing", National Symposium on Rotor Dynamics (NSRD 2011), IIT Madras, December, 2011.
9. B. R. Bhattacharjya, Sashindra Kumar Kakoty, Application of anthropometric data in designing of technology for rural work force, National Seminar on Science, technology and Innovation: its impact on communities of N.E. India, September, 2015
10. B. R. Bhattacharjya, Innovative ideas for rural entrepreneurs, edited by S. K. Kashyap in Entrepreneurship Development – The North East India Context, Barbhag College, Nalbari, 2015
11 P. K. Sarkar, B. R. Bhattacharjya, N. Kalita, S. K. Kakoty, P. Mahanta, A comparative study of biomass dryers developed in India for drying agricultural products, National seminar on Make in India and Rural North East: The Challenges, February 25-26, 2016
12. Basumatary K. K., Kalita K., and Kakoty S. K., "Stability Analysis of Rigid Rotor Supported on Gas Foil Bearing", Recent Advances In Tribology and Maintenance, NIT Rourkela, 10th Feb to 11th Feb, 2017.

(iii) BOOKS / MONOGRAPHS

1. Rotors Supported on Hydrodynamic Bearings, Course material for QIP short term course, Editor: S. K. Kakoty