DR. SHUBRAJIT BHAUMIK

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SUMMARY

Bringing over 15 years of expertise in tribology, with a strong focus on analyzing industrial lubricants, bearings,surface textures, and polymer tribology. Experienced in managing various gear systems and utilizing diverse tribometers to deliver projects meeting tribology standards. Skilled in developing application-specific tribology test rigs, ensuring adherence to laboratory standards. Committed to delivering advanced tribological solutions to diverse process industries through a collaborative approach. Passionate about contributing to cutting-edge research and driving innovation in tribology to make significant industry contributions.

Keywords: tribology, industrial lubricants,bearings,surface textures, polymer tribology, open gear systems, tribometers, laboratory standards, process industries, cutting-edge research, innovation in electrified conditions of bearings.

EDUCATION

Doctor of Philosophy (Ph.D-Tribology), Department of Mechanical Engineering, SRM Institute of Science and Technology, Kattankulathur, India.
December 2014–June 2019

Master of Technology, Design, Department of Mechanical Engineering, SRM Institute of Science and Technology, Kattankulathur, India.
June 2009–June 2011

Bachelor of Engineering, Mechanical Engineering, Nagpur University, India.
June 2002-May 2006

NOTABLE ACHIEVEMENTS

- DST SERB TARE fellow 2018, Govt. of India Fellowship
- Handled industrial research projects worth more than INR 2.3 Crore in the area of tribology.
- Spearheaded several projects. Got Regsitered Trademarks for the Products developed with “Lab to Market” concept.
- Indian Patent Granted: 1, Indian Patent Published:1
- Proposed a Standard for Bearing Failures in Electrified Conditions to Bureu of Indian Standards.
  Title: Method for evaluating the failures of deep groove ball bearings in electric motors of electric vehicles under alternating currents.
  Proposal Id: 3003_202502022828_043729
- Design of tribometers as per the industry standards.
- Played a key role in developing the bearing failure app “ Bearing VisionAI®” with the team from computing based on Machine Learning. Link: BearingVisionAI
- Experienced in industrial tribology translational and application-oriented research
- Associate Editor: Part J Journal of Engineering Tribology, SAGE Publication
- Editorial Board Member: Tribology- materials, surfaces, and interfaces, SAGE Publication
- New product development: an industrial anti-fretting paste for high-temperature applications, biodegradable greases for rolling bearings

CONTACT

Tribology and Interactive Surfaces Research Laboratory, Department of Mechanical Engineering, Amrita Vishwa Vidyapeetham Chennai Campus, Vengal Vill. Tiruvallur Dist. India

- Industrial projects : failure analysis due to wear and conceptualizing the solutions
- Amrita Research Award 2023 and 2024 for industrial tribology research.
- SRMIST Research Award 2019 for tribology.
- Established two tribology research laboratories in line with industry-oriented projects.
- Recognition from Surface Ventures UK for my contributions to tribology.
- Gold medal for research activities in academics, particularly in tribology.
- Publications and presentations in tribology in reputed journals and conferences.
- Google Scholar H index 19, i10 index 22, Citations 1069 as on 03/09/2024
- Best Research Presentation Award at Malaysian Int. Tribology Conference on nano-lubricant 2015
- Successful completion of application-oriented industrial projects with reputed industries
- New design of experimental apparatus
- Guest Editor, Part J Journal of Engineering Tribology.
- Board Member of Surface Ventures UK – a not for profit organization for tribology
- Scientific Committee Member of 15th International Conference on Tribology Romania, ROTRIB 2024 Bucharest.

WORK EXPERIENCE

Amrita Vishwa Vidyapeetham, Associate Professor & Centre Head (Tribology & Interactive Surfaces Research Laboratory)

August 2022 - present

Establishing, managing and running the research laboratory, forecasting, Industry Research in Tribology, forecasting, designing experimental matrixes by DOE approach, optimization, data monitoring, concluding trials, complete technical support for industrial projects and consultancies, teaching.

Wagner High-Quality Lubricants, Germany, Tribologist

March 2021 – January 2022

Research and development, Project rollouts, product development, quality control, defining specifications as per applications, investigating the tribological and mechanical

properties, coordinating with the application engineering team and customers, case studies and laboratory reports, scientific articles and reports for journals and technical magazines, online content editing, support to sales and marketing teams.

SRM Institute of Science and Technology, Assistant Professor.
August 2012– February 2021
Teaching and Research in Tribology, forecasting, designing experimental matrixes by DOE approach, optimization, data monitoring, concluding trials, complete technical support for industrial projects and consultancies particularly in lubricants, established the tribology research laboratory and industrial projects.

Klueber Lubrication, Germany, Sr. Application Engineer
October 2011–August 2012
[Open Gear Inspections, New application developments, handling channel partners/distributors, forecasting, developing new customers]

February 2009-May 2011- Post Graduate Studies

Eutectic Division Larsen and Toubro, Application Engineer
February 2008-January 2009
[New application development, handling channel partners/distributors, forecasting. Focused on Heavy Engineering Industries]

KouChan, Officer outsourcing
August 2007-January 2008
[Project roll out and materials planning]

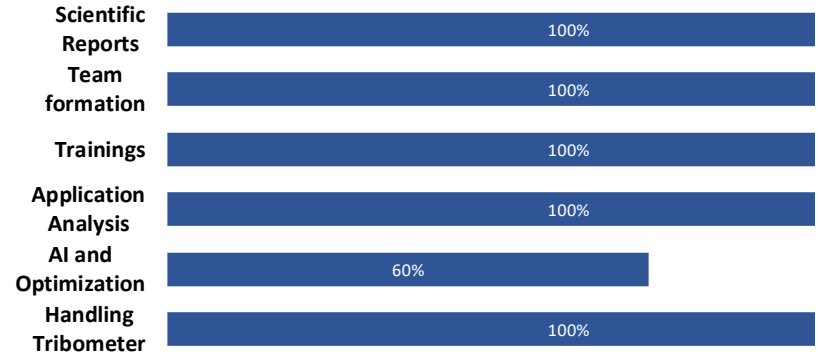
Diffusion Engineers Ltd, GET
August 2006–June 2007 [New application development, handling channel partners/distributors, forecasting. Focused on Heavy Engineering Industries]

OTHER LEADERSHIP ROLES

- Centre Head of Tribology and Interactive Surfaces Research Laboratory, Amrita Vishwa Vidyapeetham

- Chairperson of the Department Academic Advisory Committee – Mechanical Engineering
- Chairperson – Engineering Technology Centre for Faculty Trainings and Developments.

SKILLS



INDUSTRIAL/RESEARCH PROJECT AND PATENT

Duration	Title	Role
September 2023-June 2024	Study of wear in timing chains - influence of surface treatment and surface finish with **TI Diamond Murugappa Group** [Project Grant: INR 1,75,000]	Principal investigator
December 2022 – December 2027	Investigation of tribological properties of micro/nano additivated lubricants, **Mosil Lubricants P Ltd.** [Project Grant: INR 12,00,000]	Principal Investigator
August 2022-August 2027	Tribology Laboratory Infrastructure development. **Mosil Lubricants P Ltd.** A project worth INR 1.2 Crore towards developing a dedicated laboratory for Tribology. [Project Grant:INR 1.2 crore]	Principal Investigator
November 2018 – February 2021	Investigation of tribological and rolling contact fatigue analysis of AISI 52100 steel with micro and nano-additives dispersed in vegetable and mineral oil, **DST SERB TARE, Govt. of India** [Project Grant: INR 18,00,000]	Principal Investigator

October 2020-February 2021	Understanding the wear properties of greases received from field, **Rane NSK** [Project Grant:INR 1,00,000]	Principal Investigator
October 2020 – January 2021	Investigating the tribological properties of nano additive greases, **Wagner Germany** [Project Grant:INR 1,15,000]	Principal Investigator
October 2020-February 2021	Energy efficient lubricants, **Wagner Germany** [Project Grant:INR 1,00,000] Equipment of INR 15,00,000 was sponsored.	Principal Investigator
January 2019 – April 2020	Surface Texturing on Steel, **Tata Steel, Jamshedpur** [Project Grant:INR 3,00,000]	Principal Investigator
September 2019-April 2020	Investigation and selection of grease to withstand the application load until product life, meeting the overall product performance characteristics, **Rane NSK** [Project Grant:INR 1,15,000]	Principal Investigator
September 2019-November 2020	Investigating the tribological properties of lithium potassium titanate in mineral oil, **Alroko Germany** [Project Grant:INR 1,00,000]	Principal Investigator
June 2018 – May 2019	Tribological properties of nano particles based nano lubricants, **SRM IST under Selective Excellence Project.** [Project Grant:INR 3,50,000]	Principal Investigator
May 2021 – June 2021	Development of a high pressure multi performance grease the latest NLGI specifications with **Wagner Lubricants Germany.**	Tribologist (tribology test, Quality assurance)
Successful Projects on Energy Efficiency	Case study on reciprocating compressors and gear boxes using ceramic glide compounds, Electric Vehicles 10%-33% reduction in Energy Consumption.	Tribologist (Solutions. Case-study compilation , customer trainings)

	A composition and method for preparing a lubricant blend with multiple vegetable oils and additives.
Patent	**Indian Patent Application No. 201941004518. Patent No. 386265. Status: Granted on Jan 2022.**
	Automatic assessment of damage to thrust bearings and system therefor **Indian Patent Application No. 202441040325 dated 23 May 2024. Status : Published**
BIS Standard (under 2nd evaluation)	Method for evaluating the failures of deep grove ball bearings in electric motors of electric vehicles under alternating current **Proposal No. 3003_202502022828_043729**

LIST OF SCI/SCOPUS PUBLICATIONS

corresponding author

1. **Shubrajit Bhaumik***, Shubhabrata Datta and S.D Pathak, 2017, Analyses of tribological properties of castor oil with various carbonaceous micro- and nano-friction modifiers", ASME Journal of Tribology. 139(6), 061802. doi:10.1115/1.4036379. **IF 1.732**
2. Neeraj Kumar, **Shubrajit Bhaumik**, Arijit Sen, Pooja Shukla and S.D Pathak, 2017, "One-pot synthesis and first-principles elasticity analysis of polymorphic MnO2 nanorods for tribological assessment as friction modifiers", RSC Advances, Vol. 7, pp. 34138-34148**. IF. 3.102.**
3. **Shubrajit Bhaumik***, Rishabh Maggirwar, Shubhabrata Datta, S.D Pathak, 2018, Analyses of Anti-wear and Extreme Pressure Properties of Castor Oil with Zinc Oxide Nano Friction Modifiers", 449, 277-286. Applied Surface Science. **IF 4.439**.
4. Anuj Kumar Sharma, Jitendra Kumar Katiyar, **Shubrajit Bhaumik**, Sandipan Roy, 2019, Influence of alumina/MWCNT hybrid nanoparticle additives on tribological properties of lubricants in turning operations, Friction, 7(2), 153-168. **IF 3.00.**
5. Anand Rathur, Jitendra Kumar Katiyar, Vinay Kumar Patel, **Shubrajit Bhaumik**, Anuj Kumar Sharma, 2018, A comparative study of tribological and mechanical

properties of composite polymer coatings on bearing steel, Int. J. Surface Science and Engineering, 12(5), 379-401**. IF 1.178**.

6. **Shubrajit Bhaumik***, Behanan Roy Mathew, Shubhabrata Datta, 2019, Computational intelligence-based design of lubricant with vegetable oil blend and various nano friction modifiers, Fuel, 241, 733-743**. IF 4.9**.
7. **Shubrajit Bhaumik***, Viorel Paleu, Rajan Pathak, Rishabh Maggirwar, Jitendra Katiyar, Anuj Kumar Sharma, 2019, Tribological investigation of r-GO additived biodegradable cashew nut shells liquid as an alternative industry lubricant, Tribology International, 135, 500-509. **IF 4.872**.
8. **Shubrajit Bhaumik***, Swati Dey, S.D. Pathak, Shubhabrata Datta, 2019, Artificial intelligence based design of multiple friction modifiers dispersed castor oil and evaluating its tribological properties, Tribology International, 140, 105813. **IF 4.872**.
9. **Shubrajit Bhaumik***, Dhrubajyoti Chowdhury, Adarsh Batham, Udit Sehgal, Chiradeep Ghosh, Basudev Bhattacharya, Shubhabrata Datta, 2020, Analysing the frictional properties of micro dimpled surface created by milling machine under lubricated condition, Tribology International, 146, 106260. **IF 4.872**.
10. **Shubrajit Bhaumik***, Viorel Paleu, Shrutika Sharma, Sankalp Dwivedi, Sourabj Borkar, M. Kamaraj, 2020, Nano and micro additivated glycerol as a promising alternative to existing non-biodegradable and skin unfriendly synthetic cutting fluids, Journal of Cleaner Production, 263, 121383. **IF 9.297**.
11. **Shubrajit Bhaumik***, M. Kamaraj, Viorel Paleu, 2021, Tribological analyses of a new optimized gearbox biodegradable lubricant blended with reduced graphene oxide nanoparticles, Journal of Engineering Tribology, 235, 901-915. **IF 1.397**.
12. **Shubrajit Bhaumik**, Manidipto Mukherjee,Parijat Sarkar, Anish Nayek,Viorel Paleu,2020, Microstructural and Wear Properties of Annealed Medium Carbon

Steel Plate (EN8) Cladded with Martensitic Stainless Steel (AISI410), Metals, 10, 958.**IF 2.117**.

13. **Shubrajit Bhaumik***, M.Kamaraj, 2021, Artificial neural network and multi-criterion decision making approach of designing a blend of biodegradable lubricants and investigating its tribological properties, Journal of Engineering Tribology, 235, 8. **IF 1.397**. DOI: 10.1177/1350650120965754.
14. C.C. Paleu, C. Munteanu, B. Istrate, **S. Bhaumik**, P. Vizureanu, M.S., Bălţatu, V. Paleu,, Microstructural Analysis and Tribological Behavior of AMDRY 1371 (Mo–NiCrFeBSiC) Atmospheric Plasma Spray Deposited Thin Coatings. Coatings 2020, 10, 1186. **IF 2.881**.
15. N.D.Choudhury, N. Saha, **S. Bhaumik**, R Kakati, 2021, Production and evaluation of physicochemical, rheological, and tribological properties of Cucurbita pepo L. seed oil. Biomass Conv. Bioref. https://doi.org/10.1007/s13399-020-01236-5. **IF 4.987**
16. **Shubrajit Bhaumik***, V.Paleu, 2021, Wear and Rolling Contact Fatigue Analysis of AISI 52100 bearing steel in presence of additivated lubricants, Metals, 11(6), 907-913. **IF 2.351.**
17. Yendapalli KR, Shaik AF,Narahari VKR, Sumit Pramanik, **Shubrajit Bhaumik**, Effect of reinforcements on graphite/titania/ aluminium nanohybrid composites, 2021, Proc IMechE Part J: J Engineering Tribology 236 (2), 1–8. **IF 1.674**.
18. **Shubrajit Bhaumik***, Viorel Paleu, Dhrubajyoti Choudhury, Adarsh Batham, Chiradeep Ghosh, Basudev Bhattacharjee, Shubhabrata Datta, 2022, Tribological investigation of textured surfaces in starved lubrication conditions, Materials, 15(23), 8445. **IF 3.742**
19. Kumar, Sunil, **Shubrajit Bhaumik**, Lokeswar Patnaik, Saikat Ranjan Maity, and Viorel Paleu. 2022. "Application of Integrated BWM Fuzzy-MARCOS Approach for Coating Material Selection in Tooling

Industries" *Materials* 15(24),9002.**IF3.742** https://doi.org/10.3390/ma15249002

20. Cazan, Stelian, **Shubrajit Bhaumik**, Viorel Paleu, and Spiridon Crețu. 2023. "Developing a Fast-Processing Novel Algorithm for Contact Analysis of Standard Spur Gears" *Symmetry* 15(2)554.IF 2.904 https://doi.org/10.3390/sym15020554
21. Walvekar, Rashmi, **Shubrajit Bhaumik**, Thachnatharen Nagarajan, Mohammad Khalid, Abdul Khaliq Rasheed, Thummalapalli Chandra Sekhara Manikyam Gupta, and Viorel Paleu. 2023. "New Optimized Lubricating Blend of Peanut Oil and Naphthenic Oil Additivated with Graphene Nanoparticles and MoS2: Stability Time and Thermal Conductivity" 2023. *Lubricants* 11(2)71.**IF 3.584** https://doi.org/10.3390/lubricants11020071.
22. Kamlendra Vikram, **Shubrajit Bhaumik**, Sumit Pramanik, Effect of graphite on tribological and mechanical properties of PA6/5GF composites. 2023. J Therm Anal Calorim. **IF 4.755**. https://doi.org/10.1007/s10973-022-11939-8.
23. R. Rajeshshyam, R. Venkatraman, S. Raghuraman, **Shubrajit Bhaumik** (2023) Wear characteristics and sustainability of WS2 solid lubricant deposited layer on Al 6061-T6 substrate under the dry sliding conditions, Tribology - Materials, Surfaces & Interfaces, 17:3, 260-270. **IF 1.3.**
24. A.V. Radhamani**, Shubrajit Bhaumik,** HonChung Lau, M. Kamaraj & S. Ramakrishna (2023) Investigations on the temperature-dependent tribological behaviour of spark plasma sintered CNT-304 SS self-lubricating nanocomposites, Tribology - Materials, Surfaces & Interfaces, 17:3, 224236. DOI: 10.1080/17515831.2023.2243426. **IF 1.3.**
25. **Shubrajit Bhaumik***, Anurag Krishna, B.; B.L.M Reddy, Gurram, Hareesh, G.; K. Vikram, V.Paleu, V.; Mavani, S. Investigating the Fretting Failure of Axial Thrust Steel Bearings in the Presence of Anti-Fretting Lubricating Paste. *Metals* 2023, *13*, 2023. **IF 2.6.**

https://doi.org/10.3390/met13122023

26. V. Krishnamoorthy, Ashvita AJ., **Shubrajit Bhaumik***, Viorel Paleu, Mapping Acoustic Frictional Properties of Self-Lubricating Epoxy Coated Bearing Steel With Acoustic Emission During Friction Test, Technologies, 2024, 12(3), 30. **IF 4.2**
27. M. Srivastava, SK Murmu, S Chattopadhaya, V Dutta, **Shubrajit Bhaumik***, Corrosion Behaviour of Ni–Al Coated T23 Weldments at Elevated Temperatures. J Bio Tribo Corros, 10, 31 (2024). https://doi.org/10.1007/s40735-024-00837-1
28. Mukherjee M, Sarkar P, Barman S, Mallisetty PK, Paleu V, **Shubrajit Bhaumik***. Investigating the wear resistance of AISI 410/AISI 2205 hybrid weld cladding on annealed EN 8 medium carbon steel. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology. 2024. doi:10.1177/13506501241255989. **IF 1.9.**
29. Nabajit Dev Choudhury**, Shubrajit Bhaumik**, Niharendu Saha, Rupam Kataki, Investigating the tribological properties of TiO2 nanoparticles added Thevetia peruviana and Cucurbita pepo L. blend oils, Tribology International, 197, 2024, 109769. doi: 10.1016/j.triboint.2024.109769. **IF 6.1**
30. Amirthalakshmi A, **Shubrajit Bhaumik***, Viorel Paelu, Investigating the failure mechanisms during the epoxy coated steel-steel and uncoated bearing steel-steel interactions (crack formations, surface tears, schallamach like waves) and their corrosion resistance in NaCl Environment, *J Bio Tribo Corros* **10**, 84 (2024). https://doi.org/10.1007/s40735-024-00887-5.
31. **Shubrajit Bhaumik***, Anurag Krishna, Viorel Paleu, Nabajit Dev Choudhury, Investigating the Fretting of Steel Surfaces in the Presence of Hybrid Anti-Fretting Paste Containing Talc-Graphite-hBN-Molybdenum Disulfide Solid Lubricants. *J Bio Tribo Corros* **10**, 90 (2024). https://doi.org/10.1007/s40735-024-00900-x
32. Mehmet Bagci, **Shubrajit Bhaumik***, Investigating the solid particle erosion behavior of H3BO3 / B2O3 / SiO2

/ Al2O3 reinforced glass fibre/epoxy composites and parametric evaluation using artificial intelligence. Tribology - Materials, Surfaces & Interfaces.2024,18(3),171-182, doi:10.1177/17515831241274434**. IF 1.9.**

33. Kamlendra Vikram, **Shubrajit Bhaumik**, Sumit Pramanik, Impact of graphite on tribo-mechanical, structural, and thermal behaviors of polyoxymethylene copolymer/glass fiber hybrid composites via Taguchi optimization, Polymer Composites,2025;46:1768-1787. https://doi.org/10.1002/pc.29072. **IF 4.8**
34. Steffy M, **Shubrajit Bhaumik**, Paleu V. Exploring biotite – a naturally occurring silicate as a sustainable additive in calcium hydroxide/castor oil eco-friendly grease for controlling friction, wear, and energy consumption. *Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology*. 2025. doi:10.1177/13506501251353290. I.F 1.8.
35. **Shubrajit Bhaumik**, Mohamed Yunus, Sarveshpranav Jothikumar, Gurram Hareesh, Viorel Paleu, Ashok Kumar Sharma, and Shail Mavani. 2025. "Exploring the Failures of Deep Groove Ball Bearings Under Alternating Electric Current in the Presence of Commercial Lithium Grease" *Technologies* 13, no. 7: 275. https://doi.org/10.3390/technologies13070275. I.F 3.6.

BOOK CHAPTERS

1. **Shubrajit Bhaumik***. et al. (2019) Influence of Surface Texturing on Friction and Wear. In: Katiyar J., Bhattacharya S., Patel V., Kumar V. (eds) Automotive Tribology. Energy, Environment, and Sustainability. Springer, Singapore.
2. **Shubrajit Bhaumik***, Bandyopadhyay R., Rohit T.A., Banerjee A., Therese H.A., Pathak R. (2021) Friction and Wear Performance of Nano Hydroxy Apatite

(nHAp) Polyoxymethylene Composites on 316L Steel. In: Hameed Sultan M.T., Mohd Jamir M.R., Abdul Majid M.S., Azmi A.I., Saba N. (eds) Tribological Applications of Composite Materials. Composites Science and Technology. Springer, Singapore.

3. Kamlendra Vikram, Sumit Pramanik, Viorel Paleu, **Shubrajit Bhaumik***, Surface Modification of Magnesium Alloy Employing External Coating for Biomedical Applications, Magnesium Alloys for Biomedical Applications: Advances and Challenges. Pg. 109-123. CRC Press.

ONLINE TECHNICAL BLOGS:

1. Nano Lubricants: The Future of Industrial Lubrication (www.industriallubricants.com/nano-lubricants)
2. Micro Ceramic Nano Glide Compounds: Solution towards reducing Micro Pitting on Gear Teeth (www.industrialubricants.com/micro-ceramic-nano-glide-compounds-to-reduce-micro-pitting-on-gear-teeth)

GUEST LECTURES:

1. Invited Guest Lecture on "Nano Technology Applications in Mechanical Engineering-Nanolubricants", 27th September 2014 at PVBR Visvodaya Institute of Technology and Science
2. Invited Expert Speaker on "Tribological behavior of nanolubricants" in Six days workshop on Tribology of Materials and Manufacturing, 11th-16th June, 2018 at SRM Institute of Science and Technology, Kattankulathur.
3. Invited Guest Lecture on "Recent trends in Surface Engineering" 24th January 2019 at Valliamai Engineering College, Chennai.
4. Invited Expert speaker on " Surface Texturing and Insights of Nanolubricants" , DST SERB sponsored 5 days workshop on Industrial Tribology, 23rd

September to 27th September 2019, SRM Institute of Science and Technology.

5. Invited Key note speaker on “Role of surface textures under starved lubrication condition”, 4th Railway Brake and Friction Conference, organized by brakefriction team and SRM Institute of Science and Technology 10-11 December 2019.
6. Invited lecture on “Biolubricants” and “Surface Textures” at TEQIPIII sponsored workshop “Material Characterization and Tribology” 2nd March -6th March 2020 organized by Assam Science and Technology University, Guwahati.
7. Invited lecture on “Biolubricants- a plausible alternative to existing lubricants” (online webinair under TEQIP III sponsored 5 day workshop organized by Girijananda Chowdhury Institute Of Management And Technology, Guwahati, 7th August 2020.
8. Invited speaker on “Lubricants for Wind Energy Segments- Energy efficient lubricants”, in Wind Energy Meet, 6th January 2023.
9. Invited speaker on “Tribological properties of industrial pastes” at Heat treatment and Surface Engineering HTSE 2023 , ASM International Chennai Chapter, 29th September 2023.
10. Guest Lecture on “Importance of Tribology and AI implementation in Tribology” at Ashok Leyland Ennore Plant on 28th August 2024.

OTHER PROFESSIONAL ACTIVITIES:

International Ambassador for Surface Ventures, United Kingdom, a not-for-profit organization to spread the knowledge of Surface Engineering and Tribology in academia and industry.

Editorial Board Member, Tribology: Materials, Surfaces and Interfaces. SCI since October 2022.

Reviewer for reputed tribology journals: Tribology Internationa, Part J Journal of Engineering Tribology, Indian Defence Journal, Tribology in Industry etc.

Research Topic Editor, Frontiers in Materials:Advanced Lubrication Materials and Fluid Dynamics. 2022.

Guest Editor, Part J Journal of Engineering Tribology

Guest Editor, Crystals

Tribology Laboratory Incharge: Establishing the tribology research laboratories and successfully operating it.
Research guidance: UG Projects: 12 ; PG: 2; PhD: 1 (ongoing)
Co-ordinator: Subject design for assessment and accreditations such as NAAC, NBA and ABET.
Subject In Charge: syllabus framing, syllabus revamping, subject allocations.
Co-ordinator of Six Days Faculty Development Program on Mechanical Behaviour of Structural Materials, 12th-18th May 2017.
Co-ordinator of One credit course on Surface Engineering with India Pistons.
Co-ordinator of One credit course on Industrial Lubrication with Klueber lubrication India Pvt. Ltd.
Organizing committee member of 6 days workshop on Tribology of Materials and Manufacturing, 11th June 2018 to 16th June 2018.
Co-Convenor of DST SERB sponsored 5 days workshop on Industrial Tribology, 23rd September to 27th September 2019.
Organizing Joint Secretary, **TRIBOINDIA 2020**, in association Tribology Society of India, 10th-12th December 2020.
Organizing Secretary, Friction, Wear Lubrication 2021, in association with ASM International Chennai Chapter, 7th -9th October 2024.

Other Professional Activities:
Secretary and Executive Member, ASM International Chennai Chapter, Life Member Tribology Society of India , Life Member Malaysian Tribology Society

Dr.Shubrajit Bhaumik