PROFILE

BHANUDAS D. BACHCHHAV

B. E., M. Tech., Ph. D. MECHANICAL ENGINEERING DEPARTMENT ALL INDIA SHRI SHIVAJI MEMORIAL SOCIETY'S COLLEGE OF ENGINEERING 1, KENNEDY ROAD, PUNE CELL NO: 09850172628 e-mail: bdbachchhav@aissmscoe.com; bhanudas2k@gmail.com

EDUCATION:

- **Ph. D. Mechanical-Production Engineering (2013)** Swami Ramanand Teerth Marathwada University, Nanded
- **M. Tech. Production Engineering (2006)** Govt. College of Engineering, Pune
- **B. E. Production Engineering (2000)** Shram Sadhana Trust's College of Engineering, Jalgaon

EXPERIENCE: (Teaching: 16 Yrs, Industry: 1 Yr)

- **Professor (9 June 2013 till date)** (CCO/APP Camp/1684, Dt. 30/09/2016) Department of Mechanical Engineering, AISSMS College of Engineering, Pune
- Associate Professor (1 July 2015 to 31 May 2016) (CCO/355, Dt. 12/03/2016) Department of Mechanical Engineering, AISSMS College of Engineering, Pune
- Assistant Professor (1 April 2010 to 30 June 2015) (CCO/3004, Dt. 14/05/2004) Department of Production Engineering, Sinhgad College of Engineering, Pune
- Senior Lecturer (1 April 2008 to 31 March 2010) (CCO/3004, Dt. 14/05/2004) Department of Production Engineering, Sinhgad College of Engineering, Pune
- Lecturer (10 November 2003 to 31 March 2008) (CCO/3004, Dt. 14/05/2004) Department of Production Engineering, Sinhgad College of Engineering, Pune
- Lecturer (2 August 2001 to 8 November 2003) (CCO/4609, Dt. 19/11/2001) Department of Production Engineering, Amrutvahini College of Engineering, Sangamner

RESEARCH AND TEACHING INTERESTS:

• Manufacturing Engineering, Material Forming, Metrology and Quality Control, Reliability Engineering, Process Planning and Tool Selection, Non-conventional Machining, Tribology

RESEARCH RECOGNITION:

- Recognition as a **Ph.D. Guide** in the subject of **Mechanical & Materials Technology**, Department of Technology, **Savitribai Phule Pune University**, with effect from 22/09/2014.
- Recognition as a PG Teacher in the subject of Mechanical Engineering & Production Engineering, Science and Technology Board, Savitribai Phule Pune University.

ACHIEVEMENTS AND APPRECIATION:

- **Member**, Board of Studies (Production and Industrial Engineering), Savitribai Phule Pune University.
- **Outstanding Performance** during the academic year 2007-08, 2008-09 (Based on teaching)



SPONSORED RESEARCH PROJECTS:

- Experimental Investigation into Electrochemical Discharge Machining of Ceramics/Glass (Rs. 1.5 Lakh) (Funded by- Savitribai Phule Pune University) (2007-2009) (Principle Investigator) (Completed)
- 2. Characterization of Metal Working Lubricants (**Rs. 2.0 Lakh**) (Funded by- Savitribai Phule Pune University) (2009-2011) (Co-Investigator) (Completed)
- 3. Performance Evaluation of Cold Rolling Oils (**Rs. 2.85 Lakh**) (Funded by- Savitribai Phule Pune University) (2012-2014) (**Principle Investigator**) (Completed).

PUBLICATIONS:

International Journals: 06

- Bachchhav B. D., Lathkar G. S., Bagchi H., "Tribology of drawing lubricants for low carbon steel", *Industrial Lubrication and Tribology*, Vol: 66, Issue: 6, (2014), pp. 640-644. [ISSN 0036-8792], Emerald Group Publishing Limited. [DOI 10.1108/ILT-10-2012-0105].
- Bachchhav B. D., Lathkar G. S., Bagchi H., "Frictional characteristics of cold rolling oils", *Journal of Tribology and Surface Engineering*, Vol. 3, Issue: 3-4, Jul-Sept. 2014, pp.177-185.
 [ISSN: 1949-4866], NOVA Science Publishers, Inc., USA.
- 3. Bachchhav B. D., Lathkar G. S., Bagchi H., "Criticality assessment in lubricant selection for metal forming processes by AHP", *International Journal of Manufacturing Technology and Industrial Engineering*, Vol. 3, Issue: 1, Jan-June 2012, pp. 31-35. **[ISSN: 0976-6251]**.
- Bachchhav B. D., Lathkar G. S., Bagchi H., "Tribology of ester added lubricants", *Journal of Tribology and Surface Engineering*, Vol. 3, Issue: 1-2, Jul-Sept. 2012, pp.87-94. [ISSN: 1949-4866], NOVA Science Publishers, Inc., USA.
- S. A. Patil, B. D. Bachchhav, C. S. Choudhari, "Strength analysis of adhesively bonded AA6082-T6 Al alloy lap joint", *International Journal of Scientific Research in Science, Engineering and Technology*, Vol. 2, Issue: 4, July-August 2016, pp. 327-330 [Print ISSN:2395-1990; Online ISSN: 2394-4099]
- Harshal A. Arekar, S. V. Kshirsagar, B. D. Bachchhav "Effect of Injection Pressure on Vibration Performance of IC engine by using Diesel-Biodiesle Fuel", *International Journal of Scientific Research in Science, Engineering and Technology*, Vol. 2, Issue: 4, July-August 2016, pp. 273-276 [Print ISSN:2395-1990; Online ISSN: 2394-4099]

National Journals: 06

- Bachchhav B. D., Bagchi H., "In-situ strain evaluation during cold rolling of AL 1100 H14", *Journal of Manufacturing Engineering*, Vol: 12 Issue: 4, (2017), pp. 203-207. [ISSN: 0973-6867].
- 8. Bachchhav B. D., Naole D. R., "Tribo-performance of wire drawing lubricants", *Journal of Manufacturing Engineering*, Vol. 11, Issue 1, March 2016, pp. 051-054. [ISSN: 0973-6867].
- Bachchhav B. D., Lathkar G. S., Reddy Y. P., Bagchi H., "Wear under lubricated sliding contacts- A dimensional analysis model", *Journal of Manufacturing Engineering*, Vol. 8, Issue 3, September 2013, pp. 139 -144. [ISSN: 0973-6867].
- Bachchhav B. D., Lathkar G. S., Bagchi H., "A study of tribo-characteristics of deep drawing oils", *Journal of Manufacturing Engineering*, Vol. 6, Issue 3, September 2011, pp. 147-152. [ISSN: 0973-6867].
- Bachchhav B. D., Lathkar G. S., Bagchi H., "General tribological evaluation of deep drawing oils", *Journal of Manufacturing Technology Today*, Vol. 10, Issue 9, September 2011, pp. 12-16. [ISSN: 0972-7396].
- 12. Bachchhav B. D., Zope S. B., Navale L. G., "Parametric optimization of rotary electrochemical discharge machining (RECDM) on glass", *Journal of Manufacturing Technology Today*, Vol. 6, Issue 8, August 2007, pp. 4-8. [ISSN: 0972-7396].

International Conferences: 02

- 13. Bachchhav B. D., Lathkar G. S., Bagchi H., "Frictional characteristics of lubricants for 1010 low carbon steel/steel in sliding contact", *International Conference on Materials Processing and Characterization (ICMPC-2012)*, pp. 479-483. March, 8-10, 2012, Hyderabad, India.
- 14. Bachchhav B. D., Lathkar G. S., Bagchi H., "Lubricant selection for metal forming processes by subjective and objective integrated multi-attribute decision making method", *International Conference on Industrial Tribology (ICIT-2012)*, TSI 812543, Dec., 7-9, 2012, Pune, India.

National and Regional Conferences: 05

- 15. Bachchhav B. D., Katikar R. S., Shinde B. M., "Hydro-forming of light weight components at elevated temperature", *National Conference On Recent Advances in Manufacturing Engineering(RAIME-04)*", at National Engineering College, Kovilpatti, Tamilnadu, Jan., 30-31, 2004.
- 16. Bachchhav B. D., Zope S. B., "An experimental study of rotary electrochemical discharge machining (RECDM) on glass", *National Conference On Emerging Trends in Mechanical Engineering(ETME)*", at SVNIT Surat, June., 4-5, 2007.
- 17. Bachchhav B. D., Reddy Y. P., "Experimental Investigations into electrochemical discharge machining of ceramics/glass", *Regional Conference of Pune University College Teachers* (*Innovation 2008*), at SRES's College of Engineering, Kopargaon, Nov., 24-25, 2008.
- 18. Bachchhav B. D., Reddy Y. P., "Experimental Investigations into electrochemical discharge machining of ceramics/glass", *Regional Conference of Pune University College Teachers* (*Innovation 2009*), at Amrutvahini College of Engineering, Sangamner, Dec., 11-12, 2009.
- 19. Bachchhav B. D., "Performance evaluation of cold rolling oils", *Regional Conference of Pune University College Teachers (Innovation 2013)*, at Rajarshree Shahu College of Engineering, Tathawade, Pune., April, 18-19, 2013.

RESOURCE PERSON:

Invited Talks:

- Expert Lecture delivered on, "Tribological Aspects in Sheet Metal Rolling" at two day workshop on "Industrial Tribology", held at All India Shri Shivaji Memorial Society's College of Engineering Pune, on 6th Oct. 2015.
- Lecture delivered on, "Developing Good Presentation Skills" to Faculty of Sau. Shantidevi Chavan Institute of Engineering & Technology (Polytechnic) on 29th Oct. 2014.

Workshop / Seminar / Conferences Organised:

- **Coordinator** for two day state level seminar on "Achieving Make-in-India Through Manufacturing Advancement", at All India Shri Shivaji Memorial Society's College of Engineering Pune, Funded by Savitribai Phule Pune University, Pune, January 20-21, 2017.
- **Coordinator** for two day workshop on "Industrial Tribology", at All India Shri Shivaji Memorial Society's College of Engineering Pune, in Association with TSI- Mumbai-Pune Chapter, on October 5-6, 2015.
- **Coordinator** for State level paper presentation competition (PRODZINE-02), On August 26-27, 2014 at SCOE, Pune.

Sessions Chaired:

- Session Chairman for a National Conference on "Modeling, Optimization and Control" (NCMOC 2015) on 6th March 2015, organized by Vishwakarma Institute of Technology, Pune.
- Session Chairman for a National Conference on "Innovations in Mechanical Engineering, on 10th January 2015, organized by Sinhgad Institute of Technology, Lonavala.

MEMBERSHIPS OF PROFESSIONAL BODIES:

- Life member of Indian Society for Technical Education. LM-35483
- Member of Tribology Society of India. LM 4140

ADMINISTRATIVE DUTIES & RESPONSIBILITIES PERFORMED

- **Department Level:**
 - Mentor
 - Guardian Faculty
 - NBA Co-ordinator
 - Alumni Co-ordinator
 - Research Co-ordinator
 - TNA co-ordinator TEQIP-II
 - Member- cultural and social events
 - Liaison Officer for STES Staff selection interviews
 - Organized various work-shops, industrial visits for faculty as well as for students

Institute Level

- ERP Coordinator
- Industry Institute Interaction Co-ordinator
- Member Academic Monitoring committee
- Internal Squad for SPPU Examinations
- Internal Sr. Supervisor, SPPU Examinations
- Asst. Director., ME-CAP, SPPU Examinations
- Industry Institute Interaction Co-ordinator
- Member Academic Monitoring committee
- Panel Member Faculty recruitment 2016-17
- College Examination Officer (CEO) SPPU, Pune Examinations at SCOE, Pune

University Level:

- Member BOS Production and Industrial Engineering, SPPU, Pune
- Subject chairman and Paper setter for various courses for UG and PG
- Participation in Syllabus Framing of Production and Mechanical Sandwich courses

FDP/STTP/SUMMER SCHOOLS Attended [1 week and more duration]

- Industrial Tribology, TEQIP- II, at VJTI Mumbai, 07-11 December 2015
- Advances in Micro-manufacturing, AICTE, at COEP Pune, 01-12 June 2015
- Fundamentals of Material Processing (FMP-2013), TEQIP-II, SVNIT Surat, 10-14 June 2013
- Recent Trends in Precision Mechanical Measurements, TEQIP-II, SCOE Pune, 26 Nov 01 Dec 2012
- Excellence in Maintenance Engineering, AICTE, COEP Pune, 12-24 December 2011
- Summer School in Tribology, TSI, IIPM Gurgaon, 21-24 January 2010
- Metallurgical Aspects of Tribology, AICTE, SVNIT Surat, 30 Nov. To 4 Dec. 2009
- General Research Methodology, MHRD, NITTTR Pune, 19-23 January 2009
- Reliability and Failure Analysis of Engineering System, AICTE, SCOE Pune, 22 Oct. 3 Nov. 2007
- Nano-Technology: opportunities and Challenges, AICTE, BATU Lonere, 19-31 Dec. 2005

CONFERENCES/SEMINARS/WORKSHOPS ATTENDED:

- 1. One day workshop on syllabus implementation of TE Mechanical Engineering 2015 course, on 21st October 2016, held at Ramkrishna College of Engineering, Pune.
- 2. Two day staff development program on "Personality Development", 25-26, August 2016, held at AISSMSCOE Pune.
- 3. Two day seminar on "Zero defect- Quality Improvement in Industries", 3-4 March 2016, held at AISSMSCOE Pune.
- 4. Two day workshop on "Automotive NVH", 27-28 Feb. 2016, held at AISSMSCOE Pune.
- 5. One day FDP on "Reliability Engineering In Practice", 11th September 2015, held at PES Modern College of Engineering, Pune.
- 6. One day workshop on syllabus implementation of B.E. Mechanical Engineering 2012 course, on 1st August 2015, held at Bharati Vidyapeet's COE for women Pune.
- 7. Innovation- 2014, Regional Research Conference, 2nd May 2014, at Amrutvahini College of Engineering, Sangamner.
- 8. One day workshop on syllabus implementation of S.E. Production/Production Sandwich/Industrial Engineering 2012 course, on 21st June 2013, held at SCOE Pune
- 9. Innovation- 2013, Regional Research Conference, 18th April 2013, at JSPM's RSCOE, Pune.
- 10. 8th International Conference on "Industrial Tribology", 7th to 9th Dec, 2012, at The Westin Pune Koregaon Park, India.
- Annual International Conference on, "Materials Processing and Characterization" 8th to 10th March 2012 at GRIET, Hyderabad.
- 12. One day workshop on, "BE Production Engg. Syllabus Implementation" 17th Jan 2012, at AVCOE, Sangamner.
- 13. Two day National Workshop on, "Recent Advances in Eco-Friendly Lubricants (RAIEFL-2010)", 8th to 9th April 2010 at IISC Banglore.
- Innovation- 2009-10, Regional Conference for Pune University College Teachers, 11th & 12th Dec. 2009, at AVCOE, Sangamner.
- 15. Innovation- 2008-09, Regional Conference for Pune University College Teachers, 12th & 25th Nov. 2008, at SRES, College of Engineering, Kopergaon.
- One day workshop on "Optimization Methods for Research and Industrial Problems" on 21st March 2009 at Mechanical Engineering Dept. COEP Pune.
- 17. One day workshop on "SE Production Engineering Syllabus Setting" on 27th Jan. 2009. at Production Engineering Department, AISSMS College of Engineering, Pune.
- 18. One day seminar on "Micro & Nano-Manufacturing" at COEP, Pune. 4th Feb. 2008.
- Two day workshop on "Advanced Gear Manufacturing." at AVCOE Sangamner. 24-25 Aug. 2007.
- 20. National Conference on "Emerging Trends in Mechanical Engineering (ETME)", at SVNIT Surat, 04-05 June 2007.
- 21. One day workshop on "TE syllabus implementation of Manufacturing Processes-II and Machine tool and advanced manufacturing systems" at SCOE Pune. 11th March 2006.
- 22. Two day Workshop on "Tribology" at SCOE Pune. 10 11 Feb. 2006.
- 23. National Conference on "Advances in Manufacturing Technology in the Era of Globalization (AIMTEG 2005)" at PIET's COEP Pune. 21 -22 Jan. 2005.
- 24. Two day CEP Course on "Sheet Metal Formability Application" at IIT Bombay, 22- 23 Nov. 2004.
- 25. One day workshop on "3D Modeling using MSBTECAD3D & AUTOCAD" at ISTE chapter SVCP, Pune. 5th March 2004.
- 26. National Conference on "Recent Advances in Manufacturing Engineering (RAIME-04)", at National Engineering College, Kovilpatti, Tamilnadu, 30-31 Jan., 2004.