NAME OF THE FACULTY: Dr. Vasim A. Shaikh

DESIGNATION: Assistant Professor

DEPARTMENT: Production Engineering

QUALIFICATION:

1. Ph.D. – Materials Science and Engineering (2013)
   University of North Texas – USA
2. M.S. – Mechanical Engineering (2008)
   University of North Texas – USA
3. B.E. – Production Engineering (2005)
   University of Mumbai
4. Diploma – Production Engineering (2002)
   Agnel technical College

TEACHING / ACADEMIC EXPERIENCE:

1. Assistant Professor (Production Engineering)
   October 2015 - present
   Fr. Conceicao Rodrigues College of Engineering – Mumbai
2. Assistant Professor (Applied Engineering, Safety & Technology)
   August 2013 – August 2014
   Millersville University – USA
3. Teaching Assistant (Engineering Technology)
   August 207 – July 2013
   University of North Texas – USA

JOURNAL PUBLICATIONS:

1. **Shaikh, V. A.,** and Boubekri, N., (2020), Using Vegetable-oil based Sustainable Metal Working Fluids to promote Green Manufacturing, *International Journal of Manufacturing, Materials and Mechanical Engineering (IJMMME),* Vol: 1, No. 1 ISSN: 2156-1680 (Accepted for Publication)
2. Bhise, Dipali., Patil, B, T., and **Shaikh, V. A.,** (2019), Micro lubrication: A way to enhance the machining operation, *Industrial Engineering Journal.* Vol. 12 No. 4, ISSN: 2581-4915. doi: https://doi.org/10.26488/IEJ.12.4.1169
3. Veera Bhadra Rao, M., **Shaikh, V. A.,** and Patil, B, T., (2018), Recent Trends in the Effective Utilization of Minimum Quantity Lubrication (MQL) in Turning Low Carbon Steels. *Industrial Engineering Journal*. Vol. 11 No. 2, pp. 29-33. ISSN: 2581-4915 doi: https://doi.org/10.26488/IEJ.11.2.1042

4. **Shaikh, V. A.,** Scharf, T. W., and Boubekri, N. (2017), Microlubrication machining of 1018 steel: the effect of a biodegradable lubricant on the microstructural integrity. *Lubrication Science*, John Wiley Publishers. doi: 10.1002/ls.1373.

5. Boubekri, N.**,** and **Shaikh, V. A.** (2016), Nanofluids Technology Applications, *The Journal of Macro Trends in Technology and Innovation*. Vol: 4, No: 1, pp. 62-66. ISSN 2333-1011 ISSN Online 2333-102x

6. **Shaikh, V. A.,** and Boubekri, N., (2015), Minimum Quantity Lubrication (MQL) in Machining: Benefits and Drawbacks, *Journal of Industrial and Intelligent Information*. Vol: 3, No: 3, pp. 205-209. doi: 10.12720/jiii.3.3. ISSN 2301-3745

7. **Shaikh, V. A.,** Boubekri, N., and Scharf, T. W., (2014), Analyzing the effectiveness of microlubrication using a vegetable oil-based metal working fluid during end milling AISI 1018 steel, *International Journal of Manufacturing Engineering.* Article ID: 261349. 13 pages. doi: 10.1155/2014/261349

8. **Shaikh, V. A.,** Boubekri, N., and Scharf, T. W., (2013), Microlubrication effects during end milling AISI 1018 steel, *International Journal of Manufacturing, Materials and Mechanical Engineering,* Vol: 3, Issue:4, pp. 14-29. doi: 10.4018/ijmmme.2013100102.

9. **Shaikh, V. A.,** and Boubekri, N., (2013), Wear analysis during end milling AISI 1018 steel using microlubrication, *European International Journal of Science and Technology,* Vol: 2, Number: 8, pp. 216-225

10. Boubekri, N., and **Shaikh, V. A.** (2013), Minimum Quantity Lubrication (MQL) in Machining, *The Journal of Management and Engineering Integration,* Vol: 6, Issue: 1, pp. 51-61.

11. Boubekri, N., and **Shaikh, V. A.** (2012), Machining using minimum quantity lubrication: A technology for sustainability, *International Journal of Applied Science and Technology,* Vol: 2, Issue: 1, pp. 111-115.

12. **Shaikh, V. A.,** and Boubekri, N., (2010), Effects of minimum quantity lubrication in drilling 1018 Steel, *Journal of Manufacturing Technology Research,* Vol: 2, Issue: 1/2, pp. 1-14.

13. Boubekri, N., **Shaikh, V. A.,** and Foster, P., (2010), A technology enabler for green machining: Minimum quantity lubrication (MQL), *Journal of Manufacturing Technology Management,* Vol: 21, Number: 5, pp. 556-566. https://doi.org/10.1108/17410381011046968

BOOK CHAPTER

1. Rao, M. V. B., Patil, B. T., **Shaikh, V. A.,** Sudhakar, D. S. S., (2020) "Experimental Performance Evaluation of Mist Cooling Using Biodegradable Coconut Oil in Turning of EN24 Steel in Minimization of Tool Wear, Surface Roughness, and Chip Thickness". In: Parwani A., Ramkumar P. (eds) *Recent Advances in Mechanical Infrastructure. Lecture Notes in Intelligent Transportation and Infrastructure*. Springer, Singapore pp. 3-12. https://doi.org/10.1007/978-981-32-9971-9_1

CONFERENCE PAPERS / PRESENTATIONS

1. Bhise D. K., Patil B. T., **Shaikh, V. A.,** (2019) "Investigating the Microlubrication Flow Inside The Nozzle using Computational Fluid Dynamics", Materials Today: Proceedings. First International Conference on Recent Advances in Materials and Manufacturing ICRAMM, Sept 2019, Belagavi, India.

2. Singh D. S., Patil B. T., **Shaikh, V. A.,** (2019) "Investigation of Cooling Time Reduction of Door Handle for Plastic Injection Molding Using Conformal Cooling Channels", Materials Today: Proceedings. First International Conference on Recent Advances in Materials and Manufacturing ICRAMM, Sept 2019, Belagavi, India.

3. Rao, M. V. B., Patil, B. T., **Shaikh, V. A.,** Sudhakar, D. S. S., (2019) "Recent Studies of Al_2O_3, Graphene and MoS_2 Nano-Materials in Metal Working Fluids for Turning Steel – A Review", First International Conference on Recent Advances in Materials and Manufacturing ICRAMM, Sept 2019, Belagavi, India.

4. Mohite, R., **Shaikh, V. A.,** (2019) "Analysing the effect of Minimum Quantity Lubrication (MQL) on Cutting Tool Wear during Turning using a Novel Two Nozzle Technique", International Conference on Recent Trends in Mechanical Engineering (ICRTME-2019), January 2019, organized by A. P. Shah Institute of Technology under ICASTe-2019 "The Prism of Conferences".

5. Devtale, S. S., Patil, B. T., **Shaikh, V. A.,** (2018) "A Review on Effect of Particle Fibers in Reinforced Polymer Composite" Third National Conference on Industrial Engineering and technology Management (NCIETM-2018), December 2018, organized by National Institute of Industrial Engineering (NITIE), Mumbai.

6. Rao, M. V. B., Patil, B. T., **Shaikh, V. A.,** Sudhakar, D. S. S., (2018) "Comparative Evaluation of tool Wear, Chip Study and Machined Roughness Characteristics in Turning of EN24 Steel in Dry Condition, Water flooded and Bio-degradable Coconut Oil based Mist cooling systems at constant machining conditions" Third National Conference on Industrial Engineering and technology Management (NCIETM-2018) December 2018, organized by National Institute of Industrial Engineering (NITIE), Mumbai.

7. Bhise D. K., Patil B. T., **Shaikh, V. A.,** (2018) "Micro Lubrication: A Way to Enhance the Machining Operation" Third National Conference on Industrial Engineering and technology Management (NCIETM-2018) December 2018, organized by National Institute of Industrial Engineering (NITIE), Mumbai.

8. Rao, M. V. B., Patil, B. T., **Shaikh, V. A.,** Jaware, R., (2018) "Benefits of Using Nano-fluids in Minimum Quantity Lubrication (MQL) Turning of Steel", International Conference on Role of Industrial Engineering in Industry 4.0 Paradigm, organized by IIIE, Bhubaneshwar in association with SOA, ICIEIND– September 2018

9. Bhise D. K., Patil B. T., **Shaikh, V. A.,** (2018) "A Review of Micro Lubrication for Metal Working Process", International Conference on Role of Industrial Engineering in Industry 4.0 Paradigm, organized by IIIE, Bhubaneshwar in association with SOA, ICIEIND– September 2018 Conference

10. Bhise, D. K., Patil, B, T., **Shaikh, V. A.,** Kawade, P, B., and Vaishnav, H, B. (2017) "A Review of Semi Solid Casting", International Conference on Manufacturing and Industrial Engineering (ICMIE-2-17), Indian Institute of Industrial Engineering, Aurangabad, India, 14-16 September 2017

11. Boubekri, N., and **Shaikh, V. A.** (2016) "Nanofluids Technology Applications", 4th Macro Trend Conference on Technology and Innovation; Paris (France), December 2016

12. **Shaikh, V. A.,** Boubekri, N., and Scharf, T. W., (2013), Microlubrication effects in milling AISI 1018 steel: An approach towards Green Manufacturing, *120th ASEE Annual Conference and Exposition.* Conference code: 99351.

13. Boubekri, N., **Shaikh, V. A.,** and Foster, P., "Management of Lubricants in Machining"; 19 Annual International Conference on Industry, Engineering, and Management Systems; Florida, March 2013

JOURNAL SERVICE: **Reviewer**

- Wear Journal – Elsevier Publishing Company
- International Journal of Surface Engineering and Interdisciplinary Materials Science (IJSEIMS) – IGI Global Publisher

GRANTS RECEIVED:

- Received Minor Research Grant (MRG) from University of Mumbai for Academic Year 2017-18 to conduct research on topic "Sustainable Manufacturing (Green Machining)".