

SHAILESH KUMAR SINGH

Assistant Professor

Department of Mechanical Engineering

Krishna Engineering College, Ghaziabad from 06th August 2015

Member of Society of Automotive Engineering (SAE)

Advisory Board member of Institute of Mechanical Engineer (IME)

Teaching Experience: 4 Years

DOB: 10th November, 1986

Email: shaileshsonu10@gmail.com

Phone: +91-8285765483



ACADEMIC QUALIFICATIONS

Year	Degree	Institute	Percentage
2015-16 July	PhD*	Indian Institute of Technology (Indian School of Mines) Dhanbad	Pursuing
2013-2015	M.Tech (Production Engineering)	Delhi Technological University (formerly Delhi College of Engineering)	8.8(SGPA) <i>Gold Medal</i>
2007-2011	B.Tech Mechanical Engineering	Sunder Deep Engineering College Ghaziabad (Affiliated to U.P. Technical University, Lucknow)	73%
2004	Class XII	A. I. T. Inter College, Faizabad (U.P. Board , Allahabad)	70.8%

PUBLICATIONS

International Journals: 04

International Conferences: 09

[1] **Shailesh Kumar Singh**, Rasik Mohan Tiwari, Anil kumar, Satyajeet Kumar, Qasim Murtaza, Sanjeev Kumar "Mechanical Properties and Microstructure of Al-5083 by TIG Welding" published in *Elsevier Materials Today: Proceedings*, ISSN: 2214-7853.

[2] **Shailesh Kumar Singh**, Mohd Rashid, Deepak Kumar, Satyajeet Kumar "Micro Structural and Mechanical Behaviours of Nano-TiC-Reinforced AA6082 FSW Joints" Published in International Journal of Trend in Research and Development (IJTRD), ISSN: 2394-9333, Volume-3 | Issue-4 , August 2016.

[3] Satyajeet kumar, **Shailesh Kumar Singh** "Comparative Study on Consolidation of Sic-Al and Sic-B4C-Al Cermet" Published in International Journal of Trend in Research and Development (IJTRD), ISSN: 2394-9333, Volume-3 | Issue-3 , June 2016.

[4] **Shailesh Kumar Singh**, Satyajeet Kumar, Jay Shankar Kumar, Sitikantha Behera, Shailesh Mani Pnadey Synthesis and wear behavior of (Al,Cu)₃Ti Powder by Mechanical Alloying Published in International Journal of Production and Industrial Engineering IJAPIE-SI-MM512(2017) 81-84

International Conferences

[1] **Shailesh Singh**, Somnath Chattopadhyaya, **Sanjeev Kumar** and Alokesh Pramanik “Application of Fuzzy Logic Model for study the wear behavior of Chrome Coating by physical vapour deposition (PVD)” International Conference on Advances in Computing and Data Sciences (ICACDS-2016) at Nov.11-12 2016. [Paper will be published in **SCOPUS** indexed Journal]

[2] **Shailesh Kumar Singh**, Somnath Chattopadhyaya, Sanjeev Kumar, Alokesh Pramanik Tribological behavior of surface coating by PVD-A Review International conference on “Evolutions in manufacturing: Technologies and Business Strategies for Global competitiveness”. ICEM-2016 November 12-13-2016.

[3] **Singh S.**, “Microstructure Analysis of Piston Rings and Wear Resistance of Coating by Physical Vapour Deposition”; ‘The 4th International Symposium on the Fusion science and Technologies 2015 (ISFT2015)’ on January 12-16th, 2015 in RUS, Huntra campus, Pra Nakhon Si Ayutthaya, Thailand.

[4] **Singh S.**, Murtaza Q., Walia R., Pandey S., Ahluwalia S., “Nano-Composite Classification, Deposition and Characterization Techniques – A Review”; TEQIP – II Sponsored National Conference on ‘Latest Developments in Materials, Manufacturing and Quality Control’ (ISBN 978-93-5196-055-3) on 19 – 20th February, 2015 in Giani Zail Singh Punjab Technical University Campus, Bathinda, India.

[5] **Singh S.**, Rashid M., Murtaza Q., Yuvraj N., “Friction Stir Welding, Process Parameters and Materials Issues-A review”; ‘An International Conference & Exhibition on Cutting Edge Technological Challenges in Mechanical Engineering (CETCME – 2015)’ on 21 – 22nd March, 2015 in Noida Institute of Engineering and Technology, Greater Noida, India.

[6] **Singh S.**, Murtaza Q., Pandey S., Walia R., Rashid M., “Characterization of NiCr, CrC and Mo powders for thermal spray coatings”; ‘International Conference on Advances in Materials, Manufacturing and Applications (AMMA – 2015)’ on April 9 -11th, 2015 in National Institute of Technology, Tiruchirappalli, India

[7] Satyajeet Kumar, **Shailesh Kumar Singh*** Jayshankar Kumar, Qasim Murtaza “Synthesis and Characterization of Al-alloy by Mechanical alloying” 7th International Conference on Material Processing and Characterization on 17-19 march 2017. Paper ID-101 [Accepted] Paper will be published in Elsevier Materials Today Proceedings.

[8] Satyajeet Kumar, **Shailesh Kumar Singh***, S.C.Mishra “Processing and Characterization of Fly-ash Compacts” 7th International Conference on Material Processing and Characterization on 17-19 march 2017. Paper ID-123. [Accepted] Paper will be published in Elsevier Materials Today Proceedings.

[9] Mohd. Rashid, **Shailesh Kumar Singh***, N.Yuvraj “Optimization of process parameters for tensile strength and micro hardness of friction stir welded AA6082 specimen using Response surface methodology (RSM)” 7th International Conference on Material Processing and Characterization on 17-19 march 2017. Paper ID-922. [Accepted] Paper will be published in Elsevier Materials Today Proceedings.

ONGOING PROJECTS:

- Analysis of wear behavior of thermal spray coating and its Simulation.
- Thermal analysis of functionally graded components pistons and other parts of engine by ANSYS.
- Characterization of Al by TIG and FSW.

FIELD OF INTEREST

- Production Engineering
- Surface engineering (Tribology)

CURRENT ROLE AND RESPONSIBILITY

Teach courses in their subject area and develop an instructional plan (known as a course outline according to syllabus) for the course(s) and ensure that it meets college and department standards.

- Working as a proctor/Mentor of Students.
- Conduct research and experiments to advance knowledge in their field.
- College Coordinator of Society of Automotive Engineering (SAE) college club.
- Faculty Advisor of college team to participate in Hybrid Vehicle competition organized by Imperial Society of Innovative Engineering (ISIE).
- Faculty Advisor of Aeromodeling Team to participate in SAE Events.
- Worked in a Team of five members in department for develop some advance labs like CAD/CAM Centre and welding technology.
- Reviewer at International Journal of Trend in Research and Development (IJTRD), ISSN: 2394-9333.

WORKSHOP ORGANIZED AND ATTENDED

- Attended a 5 day Faculty development programme (FDP) on Six Sigma at Krishna .Engineering College Ghaziabad on 12-16 December 2016.
- Attended a 2 day Faculty development programme (FDP) at CATIA Krishna .Engineering College Ghaziabad on 12-16 December 2016
- Organized 2 day workshop on “ROBOTRYST” in association with CETPA and IIT Delhi on Sept.21-22, 2015
- Organized intercollegiate Wireless Robo race at Krishna engineering college.
- Co-Organizer of 2 day workshop on “3-D Printing” in association with CETPA and IIT Delhi on Aug. 25-26, 2016.
- Co-Organizer of departmental Tech-Guru event.
- Attended a 2 day Faculty development programme (FDP) at R.D.Engineering College Ghaziabad on 6-7 February 2016.

- Attended Hybrid Vehicle Challenge (**HVC**) event in Bhopal organized by Imperial Society of Innovative Engineering (ISIE) at 25-27 July 2016. where team SHAURYA of KEC win the following awards-
 - First Prize in best business plan and cost analysis
 - Lightest Vehicle Award
 - Overall fifth rank in Endurance round
- Attend an International conference on Processing of materials minerals and energy at PACE institute of Technology, Ongole Andhra Pradesh India on 26-30 July 2016.
- Attended TEQIP-II Sponsored Faculty Development Programme on “Automation in Manufacturing (AIM – 2015)”, Delhi Technological University
- Attended AICTE sponsored National Seminar on “Tools and Techniques used for thermal cooling” held in KIET, Ghaziabad
- Diploma in Computer Programming in C from UPTECH, Ghaziabad
- Pursued practical Training (8 weeks), Yamaha Motors India Private Limited, Greater Noida in Production & Quality Control.
- Joint Secretary, Institution of Mechanical Engineers i.e. IMechE India DTU Student Chapter.
- Core Committee associate, Indian Society of Technical Education (ISTE) Delhi Section convention 2013, Delhi Technological University.
- Logistics head, International Conference on Smart Technologies for Mechanical Engineering (STME – 2013), Delhi Technological University.
- Profound social Volunteer at the biannual Blood donation camp in association with Indian Red Cross society, Delhi Technological University.

RESEARCH EXPERIENCE

Worked at Center of Tribological Engineering (January 2014 – June 2015) Department of Mechanical & Automotive Engineering, Delhi Technological University, Delhi and Projects Undertaken:

- Wear Behavior analysis of chrome plating by physical vapour deposition
- Influence of Nano-particles on the Tribological studies of Thermal Spray Coating under dry/wet conditions.

PRIOR EXPERIENCE

- Worked as a **Lecturer** in Department of Mechanical Engineering, Sunderdeep Engineering College, Ghaziabad (July 2011 – June 2013).
- Worked as an **Exam Cell Member** in Mahamaya Technical University and Gautam Budha Technical University (Currently Uttar Pradesh Technical University) (October 2011 – June 2013)

- Assisted the **Nodal Center** team of Gautam Budha Technical University in Sunderdeep Engineering College, Ghaziabad (December 2011 – June 2013)

Software's Known	AutoCAD, Pro – E, Microsoft Office
Operating Systems familiarity	MS-DOS, Windows XP/7/8
Language Proficiency	Proficient in Reading, Writing and Speaking in English and Hindi.

I hereby declare that all information presented above is correct to the best of my knowledge and I take full responsibility for the same.

Reference

[1] Alokesh Pramanik

PhD

Lecturer | Department of Mechanical Engineering

Curtin University, GPO Box U1987, Perth WA6845, Australia

Tel | +61 8 9266 7981

Fax | +61 8 9266 2681

Email | alokesh.pramanik@curtin.edu.au

Web | <http://oasisapps.curtin.edu.au/staff/profile/view/Alokesh.Pramanik>

[2] Somnath Chattopadhyaya

Thomson Reuters Research ID - K-7101-2012, ORCID ID - 0002-6814-7936

Scopus Author ID - 24070120200

Associate Professor, Department of Mechanical Engineering

Indian Institute of Technology (Indian School of Mines)

Dhanbad - 826004, office : 03262235618, Mobile - +919431954821, Residence - +9103262235731

Website : www.iitism.ac.in, Facebook name; Somnath Chattopadhyaya

Official Email Address : chattopadhyaya.s.memme@ismdhanbad.ac.n

Shailesh Kumar Singh