Dr. Mani Kanwar Singh

Skill Assistant Professor

Department
Skill Faculty of Engineering & Technology
Qualification
Ph.D (Thapar University, Patiala 2017), ME (Thapar University, Patiala 2011), B.Tech (Punjabi University, Patiala 2008)
Areas of Interest
Fluid Flow, Tribology

List of Publications

MEMBER OF LEARNED SOCIETIES

- Membership of American Society of Thermal and Fluid Engineering.

HONOURS, AWARDS AND DISTINCTIONS

- Letter of Appreciation for Best Academic Excellence during 2014 at Bahra Group of Institutions, Patiala.
- PARTICIPATION IN CURRICULUM DEVELOPMENT
- Participant of "CII Skills Delegation to Germany and Switzerland" from October 6-13, 2019 organised by Confederation of Indian Industry.
- Attended Short term training programme "Induction Programme Phase-I" from August 05-09, 2019 organised by SVSU, Haryana at NITTTR, Bhopal

REFEREED PUBLICATIONS
SCI Indexed

- Singh M, Kumar S, Rath D and Kaur H (2019), Improvement in head loss characteristics of fine particulate coal-water suspension with addition of coarser particulate. International Journal of Coal Preparation and Utilization. DOI./10.1080/19392699.2019.1600512
- Singh M, Kumar S and Rath D (2017), Computational analysis on disposal of coal slurry at high solid concentrations through slurry, International Journal of Coal Preparation and Utilization. DOI.org/10.1080/19392699.2017.1346632
- Singh M, Kumar S, Rath D and Kaur H (2017), Design of slurry transportation pipeline for the flow of muti-particulate coal ash suspension, International Journal of Hydrogen Energy, 42(30), 19135-19138.
- Singh M, Rath D, Kumar S and Kumar D (2016), Influence of Particle Size Distribution and Temperature on Rheological Behavior of Coal Slurry, International Journal of Coal Preparation and Utilization, 42(1), pp- 44-54.
- Singh M, Rath D and Kumar S (2016), Physio-chemical and leaching characteristics of fly and bottom ash, Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 38(16), 2377-2382.
- Kumar S, Singh M and Mohapatra S K (2016), Comprehensive characterization of Indian bottom ash: Assessment of its potential utilization,

Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 38(18), 2704-2710.

- Singh G, Kumar S, Singh M and Mohapatra S K (2016), Environmental impact assessment of ash disposal system of a thermal power plant, International Journal of Hydrogen Energy, 41(35), 15887-15889.
- Sandhu H, Gangacharyulu, D and Singh M (2018), Experimental investigations on the cooling performance of microchannels using alumina nanofluids with different base fluids, Journal of Enhanced Heat Transfer, 25(3), 283-291.
- Khanchi A, Singh M, Sandhu H and Sehgal S (2018), Experimental investigation to enhance the power generation for thermoelectric generator unit, Heat Transfer Research, 50(5), 451-462.

SCOPUS Indexed

- Sandhu H, Gangacharyulu, D and Singh M (2019) Experimental study on stability of different nanofluids by using different nanoparticles and basefluids, ASTFE Digital Library, DOI: 10.1615/TFEC2019.epa.027991.
- Singh J P, Mohapatra S K, Kumar S, and Singh M (2018), Alkali Leaching of Indian Coal for Ash Reduction, Iranian Journal of Chemistry and Chemical Engineering, 37(6), 147-155.
- Kannojiya. V, Kumar S, Mohapatra, S. K and Singh M (2016), Simulation of erosion wear in slurry pipe line using CFD, Applied Mechanics and Materials, 852, 459-465.
- Kumar S, Singh M, and Rath D (2015), Mineral characterization of Indian coal, International Journal of Applied Engineering Research, 10(78), 5-8.

Reputed Journal

- Dhindsa D S, Grewal R S, Singh M, Kumar S and Mohapatra S K (2011), Computational Investigation of Slurry Pump Handling Sand, International Journal of Fluids Engineering, 2(1), 65-70.
- Kumar S and Singh M (2011) Evolution of Erosion Wear of Centrifugal Pump using CFD, International Journal of Computational Physical Sciences, 2(1), 1-8.

CHAPTERS IN BOOKS

- Khanchi A, Singh M, Sandhu H, Sehgal S and Bajaj B (2019) Identification and Inquisition of Thermoelectric Generator Unit for Efficient Heat Recovery, Advances in Fluid and Thermal Engineering, Springer/ ISBN 978-981-13-6416-7, 307.
- Singh M, Kumar S, Kaur H and Sehgal S (2019) Physical Chemical and Mineralogical Characterization of Coal Ash, Future Aspects in Engineering Sciences and Technology 2018, White Falcon Publishing/ ISBN -978-93-88459-43-3.

INVITED LECTURES WORKSHOP/CONFERENCE ORGANISED

- Organised One Day Symposium Of Intellectual Property Rights For Engineers In 2018 at Chandigarh University, Gharuan.
- Conference Committee Member For Organising Ncasme-2018 (National Conference) in Department of Mechanical Engineering Department at Chandigarh University, Gharuan.
- Mentor of Student Team Participating INAE 2nd Youth Conclave at IIT Kharagpur and Secured 3rd Position (With Cash Prize).

WORKSHOP/CONFERENCE ATTENDED

- Organised One Day Symposium Of Intellectual Property Rights For Engineers In 2018 at Chandigarh University, Gharuan.
- TEQIP sponsored Short term Training Program on Basics & Applications of CFD (Aug-2013) organised by Department of Mechanical Engineering, Thapar University, Patiala.
- TEQIP sponsored Short term Training Program on Hands on Training on CFD (Oct-2013) organized by organised by Department of Mechanical Engineering, Thapar University, Patiala.

FDP ATTENDED

- One Week Faculty Development Program (2015) on "Advancements in Mechanical Engineering" at Bahra Group of Institutions, Patiala sponsored by "Punjab Technical University".
- One Week Faculty Development Program (2015) on "Emerging Trends in Mechanical Engineering" at Rayat Institute of Engineering & Information Technology, Ropar sponsored by "Punjab Technical University".
- One Week Teacher Training Program (2015) on "Instructional Planning and Delivery (Module-II Instructional Delivery) through ICT" at Bahra Group of Institutions, Patiala sponsored by "NITTTR, Chandigarh".
- One Week Teacher Training Program (2014) on "Induction Training Programme on Communication Skills through ICT" at Bahra Group of Institutions, Patiala sponsored by "NITTTR, Chandigarh".
- One Week Teacher Training Program (2012) on "Induction Training Programme Through ICT" at Bahra Group of Institutions, Patiala sponsored by "NITTTR, Chandigarh".

PATENTS

- Patent Titled "Storage System for Preserving Agricultural Products" was filled with Application No. 201911008799 A is published on August 23, 2019.