



## DILIP JOHARI

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 Hindustan College of Science and Technology  
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<b>Qualification</b>	:	M. Tech. (Engineering System), B. Tech. (Mechanical Engineering)
<b>Department</b>	:	Mechanical Engineering Department
<b>Experience</b> (Academics/Industry/Research)	:	13 Years
<b>Research Interest</b>	:	Non-Conventional Energy Resources
<b>B.Tech. Project supervised</b>	:	20+
<b>Research Publications</b>	:	Journal : 07 Conference : 08 – Int. & 09 – Nat.

### Journals:

- (i) Pramod Kumar Singh, Mulayam Singh Gaur, Dilip Johari, Rohan Sagar, Akash Gupta, Ashutosh Sharma, Govind Singh & Mayank Yadav (2019), “Enhanced pyroelectric and piezoelectric properties of PVDF – BaTiO<sub>3</sub> nanocomposites layered samples”, *Ferroelectrics*, 551:1, 122-132, DOI: 10.1080/00150193.2019.1658038
- (ii) R. Prasad, A S Yadav, N K Singh, D Johari(2019), “Heat Transfer and Friction Characteristics of an Artificially Roughened Solar Air Heater” *Advances In Fluid And Thermal Engg*” ISSN:2195-4356, pp 613-626, DOI:10.1007/978-981-13-6416-7; ISBN978-981-13-6416-7;
- (iii) N K Singh, R. Prasad, Y. Singh , D Johari (2019), “Performance Study Of Gas Assisted Electric Discharge Machining On Carbon-Chromium Die Steel” *Advances in Industrial and Production Engg.* ISSN2195-4356; ISBN:978-981-13-6411-2, pp 801-814, DOI:10.1007/978-981-13-6412-9;
- (iv) Nishant K.Singh, R. Prasad, Dilip Johari (2018), “Electrical Discharge Drilling of Al-Sic Composite Using Air Assisted Rotary Tubular Electrode” *Int. J.Materials Todays* ,Volume 5, Issue 11, Part 3, Pages 23769-23778, doi.org/10.1016/j.matpr.2018.10.168
- (v) D Johari, P Mangla, R Prasad (2016), “Analysis of various Ergonomic Hazards of Indian workers”, *International Journal of advances in Engineering Science and Technology*, Volume 5, Number 1, 2016, 28-32. ISSN: 2319-1112
- (vi) D Johari and A Yadav (2013), “Design of an Eco-friendly Air conditioning system using Evacuated tube solar”, *International Journal, of Environmental Research and Development*, Volume 3, Number 8, 2013, 83-88. ISSN 2249-3131.
- (vii) D Johari, A Yadav, D G Rao (2013), “Effect of variation in tilt angle on the performance of a solar water heater using evacuated tube solar collector”, *International Journal of Applied Engineering Research (special issue)*, Volume 8, Number 3, 37-40. ISSN 0973-4562.

## Conference:

### **International Conferences**

- (i) Paper titled, "Development of triple layer PVDF Nano-composite for energy harvesting applications", presented & published in the presented & published in the 3<sup>rd</sup> International on *Advances in Condition Assessment Techniques in Electrical Systems* organized by IIT, Ropar, Roopnagar during November 16-18, 2017. (M S Gaur, P Sengar, D Johari)
- (ii) Paper titled, "Electrical discharge drilling of Al-SiC composite using air assisted rotary tubular electrode", presented & published in the International on *Advances in Materials and Manufacturing Applications* (IConAMMA-2017) organized by Department of Mechanical Engineering, Amrita Vishwa Vidyapeetham, Bangalore during August 17-19, 2017. (N.Singh, R Prasad, D Johari)
- (iii) Paper titled, "Aerodynamic Performance of Symmetric Biconvex Circular-Arc Aerofoil in Supersonic Flow Regime", presented & published in the 6th International & 43rd National Conference on *Fluid Mechanics and Fluid Power* (FMFP-2016) organized by Department of Mechanical Engineering, Motilal Nehru National Institute of Technology, Allahabad during December 15-17, 2016. (R Prasad, W Hasan, D Johari, G Saxena)
- (iv) Paper titled, "Analysis of various Ergonomic Hazards of Indian workers", presented & published in the International Conference on *Innovation in Engineering Science and Management* (ICIESM-2016) organized at YMCA, New Delhi, India on January 23, 2016. (D Johari, P Mangla R prasad) ISBN: 978-81- 931974-1- 7
- (v) Paper titled, "Design of an Ecofriendly Air conditioning system using Evacuated tube solar collector", presented in the International Conference on *Innovating Trends in Natural/Applied Sciences and Energy Technology for Sustainable Development* (ITNASETSD-2013) organized by Krishi Sanskriti at Jawaharlal Nehru University, New Delhi, India during July 27-28, 2013. (D Johari and A Yadav)
- (vi) Paper titled, "Effect of variation in tilt angle on the performance of a solar water heater using evacuated tube solar collector", presented in the International Conference on *Various Facets of Energy Technologies and its Management for Sustainable Development* (ET & MSD-2013) organized by Krishi Sanskriti at Jawaharlal Nehru University, New Delhi, India during March 16-17, 2013. (D Johari, A Yadav, D G Rao)
- (vii) Paper titled, "Measurement of Discharge in a closed conduit using Pressure-Time (Gibson) Method", presented and published in the proceedings of the International Conference on *Application of Fluid Engineering* (CAFÉ-2012), organized by Department of Mechanical Engineering, G. L. Bajaj Institute of Technology & Management, Gr. Noida, (U.P.) India during September 20-22, 2012. (D Johari, A Yadav, R Verma) (Page No. 91)
- (viii) Paper titled, "Need, Role and Benefits of Biomedical Engineering in Indian Education", presented and published in the proceedings of the International Conference on *Bioscience and Bioengineering: A Collaborative Approach* (ICBB2012), sponsored by AICTE and organized by Department of Biotechnology, IMS Engineering College, Ghaziabad, (U.P.) India during July 06-07, 2012. (D Johari, J K Verma, R Verma) (Page No. 67)

### **National Conferences**

- (i) Paper titled, "Reinforcement of Steel by Titanium to Enhance Wear Resistance" presented and published in the proceedings of the National Conference on *Advances in Material Design and Manufacturing* (AMDM-2016), organized by Department of Mechanical Engineering, Allenhouse Institute of Technology, Kanpur during January 30-31, 2016. (R. Prasad and D. Johari)

(ii)	Paper titled, “Solar Water Heating in India – An Economic and Environmental Assessment” presented and published in the proceedings of the National Conference on <i>Advances in Material Design and Manufacturing (AMDM-2016)</i> , organized by Department of Mechanical Engineering, Allenhouse Institute of Technology, Kanpur during January 30-31, 2016. (D. Johari and R. Prasad)
(iii)	Paper titled, “Effect of tilt angle on the performance of evacuated tube solar air heater” presented and published in the proceedings of the National Conference on <i>Advances in Heat Transfer and Fluid Dynamics (AHTFD-2013)</i> , organized by Department of Mechanical Engineering, Aligarh Muslim University, Aligarh during March 23-24, 2013. (D Johari, and A Yadav) (Page No. 201-206 )
(iv)	Paper titled, “Study of Solar Water Heaters Based on Exergy Analysis”, presented and published in the proceedings of the National Conference, <i>Trends and Advances in Mechanical Engineering (TAME 2012)</i> organized by Department of Mechanical Engineering, YMCA University of Sciences & Technology, Faridabad, Haryana during October 19-20, 2012. (D Johari, A Yadav, R Verma) (Page No. 1-8) ISBN:978-93-5087-574-2
(v)	Paper titled, “Finite Element Modelling of Tube Hydroforming Process Using Pure Aluminium (Al 99)”, presented and published in the proceedings of the National Conference, <i>Trends and Advances in Mechanical Engineering (TAME2012)</i> organized by Department of Mechanical Engineering, YMCA University of Sciences & Technology, Faridabad, Haryana during October 19-20, 2012. (D Johari, J K Verma, D P Singh) (Page Nos. 633-640) ISBN:978-93-5087-574-2
(vi)	Paper titled, “Effect of Heat Treatment on Mechanical Properties of H12 Tool Steel”, presented and published in the proceedings of the National Conference, <i>Recent Advances in Mechanical Engineering (RAME2012)</i> organized by Department of Mechanical Engineering, Hindustan College of Science and Technology, Farah, Mathura (UP) during June 8-9, 2012. (D Johari, J K Verma, R Verma) (Page Nos. 546-549)
(vii)	Paper titled, “Study of Work Related Musculoskeletal Disorders Due to Vibrations”, presented and published in the proceedings of the National Conference, <i>Recent Advances in Mechanical Engineering (RAME2012)</i> organized by Department of Mechanical Engineering, Hindustan College of Science and Technology, Farah, Mathura (UP) during June 8-9, 2012. (D Johari, J K Verma, A Poras) (Page Nos. 477-482)
(viii)	Paper titled, “Eco Industrial Park: A Foundation for the Development of Indian Industries”, presented and published in the proceedings of the National Conference, <i>Emerging Vistas of Mechanical Engineering in 21<sup>st</sup> Century</i> , published by Narosa Publishing House (P) Ltd, New Delhi and organized by Department of Mechanical Engineering, Anand Engineering College, Keetham, Agra (UP) during April 4-5, 2011. (D Johari, D P Singh) (Page Nos. 450-453) ISBN:978-81-8487-141-8
(ix)	Paper titled, “Effect of Heat Treatment on Microstructure and Hardness of High Chrome Alloy Steel (AISI 52100)”, presented and published in the proceedings of the National Conference, <i>Recent Advances in Mechanical Engineering (RAME2011)</i> organized by Department of Mechanical Engineering, B.S.A. College of Science and Technology, Mathura (UP) during March 25-26, 2011. (D Johari) (Page Nos. 137-143) ISBN:978-81-906515-3-0
<b>Workshops/Training (Organized / Attended)</b>	<b>5</b>
<b>FDP (Organized / Attended)</b>	<b>5</b>
<b>Membership of Professional Bodies</b>	IAENG, UAMAE