***Curriculum Vitae***

***Dr. Rohit Misra***

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Present Office Address: Associate Professor, Deptt. of Mechanical Engineering, Govt. Engineering College, NH-8, Badliya Chouraha, Ajmer, Rajasthan, India

Present Residential Address: 22, Brij Vihar Colony, Naya Ghar, Gulab Bari, Ajmer, Rajasthan, India

***Educational Qualification:***

B. E. (Mechanical Engg.): N.M.University, Jalgaon, 1996

M.E. (Thermal Engg.): M.B.M. Engg. College, J.N.V. University, Jodhpur, 2003

Ph.D. (Energy): Malviya National Institute of Technology, Jaipur, 2013

***Teaching and Research Experience:*** 16.5 Years

Assistant Professor: Deptt. of Mech. Engg., Govt. Engineering College, Ajmer, from 7th June 1999 to 25th Feb. 2007.

Associate Professor: Deptt. of Mech. Engg., Govt. Engineering College, Ajmer, from 26th Feb. 2007 till date.

***Personal Details:***

D.O.B.: 29th Sept. 1973

Nationality: Indian

Languages Known: English, Hindi

***Courses Taken:***

(1) Kinematics of Machines

(2) Engineering Thermodynamics

(3) Heat Transfer

(4) Refrigeration and Air-conditioning

(5) Gas Turbines and Gas Power Plants

***Research Projects Undertaken:***

**[1]** Working as Principal Investigator on a research project funded by All India Council of Technical Education (AICTE), New Delhi, Government of India, under Research Promotional Scheme (RPS).

**Project Title:** Experimental Investigation of Earth Air Tunnel Heat Exchanger Operating in Hybrid Mode with Other Cooling Systems.

**Project Fund Received:** INR 16.02 Lacs.

**Project Duration:** April 2013 to March 2016.

**[2]** Worked as Co-Principal Investigator on a research project funded by Department of Science and Technology, Government of Rajasthan, India.

**Project Title:** Performance and Exhaust Emission Analysis of Ethanol Fuelled CI Engine.

**Project Fund Received:** INR 4.12 Lacs.

**Project Duration:** April 2013 to April 2015 (2 Years).

 ***Administrative Experience:***

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| **Position Held** | **Organization** | **Period** |
| **From** | **To** |
| Co-coordinator, Training & Placement Activities | Engineering College, Ajmer | 17/9/1999 | 15/7/2001 |
| Incharge, Study Circle & Extension Lectures | Engineering College, Ajmer | 28/8/2001 | 30/8/2002 |
| Stores Officer | Engineering College, Ajmer | 15/3/2002 | 21/7/2008 |
| Head of Mech. Engg. Deptt. | Engineering College, Ajmer | 30/6/2006 2/1/2007 2/1/2009 | During vacation21/7/20085/11/2011 |
| Estate Officer (Civil) and Advisor of Estate Section | Engineering College, Ajmer | 23/8/200602/2/2016 | July 2009Till date |
| Member of Central Evaluation Committee of University of Rajasthan | Engineering College, Ajmer | 25/3/2008 | July 2009 |
| Hostel Warden | Engineering College, Ajmer | 13/1/2009 | July 2009 |
| Coordinator, Examination Cell | Engineering College, Ajmer | 5/11/2011 | 4/3/2013 |
| Coordinator, RTU Grievance Cell | Engineering College, Ajmer | 17/2/2012 | 4/3/2013 |
| Chief Coordinator, Library  | Engineering College, Ajmer | 4/3/2013 | 26/11/2014 |
| Coordinator, QEEE Cell, TEQIP | Engineering College, Ajmer | 6/12/2014 | Till date  |
| Nodal Officer (Procurement), TEQIP Cell | Engineering College, Ajmer | 19/7/2015 | Till date |
| Member (Purchase Committee), TEQIP  | Engineering College, Ajmer | 24/8/2015 | Till date |

***Academic Achievements:***

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| **Sr. No.** | **Academic Achievements** |
| 1 | Reviewer of International Journal of Energy Conversion and Management, Elsevier (Science Direct) |
| 2 | Reviewer of International Journal of Energy and Buildings, Elsevier (Science Direct) |
| 3 | Reviewer of International Journal of Low Carbon Economy, Elsevier (Science Direct) |
| 4 | Reviewer of book titled “Non Conventional Energy Resources” by B.H. Khan, 2nd Edition, Tata McGraw-Hill Education Private Limited, New Delhi |
| 5  | Has acted as External Examiner to conduct M. Tech. Seminar/Dissertation Viva Voce Exams in various Universities  |
| 6 | Is among the panel of paper setters of R.P.S.C and various Universities/Institutions and has set more than 100 papers of Post Graduate and Under Graduate Examinations  |
| 7 | Recipient of GATE Scholarship |

***List of Publications in International Journals:***

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| --- | --- | --- |
| **Sr. No.** | **Details (Author(s)/ Year/ Title/ Volume)** | **Cumulative Impact Factor** |
| 1 | Karwa R., Karwa N., Misra R., Agarwal P.C., 2007, “Effect of Flow Maldistribution on Thermal Performance of a Solar Air Heater Array With Sub-collectors in Parallel”, Int. J. of Energy, Vol. 32, pp. 1260-1270. | 5.153 |
| 2 | Bansal V., Misra R., Mathur J., Agrawal G. D., 2009, “Performance Analysis of Earth-Pipe-Air Heat Exchanger for Winter Heating”, Int. J. of Energy and Buildings, Vol. 41, pp. 1151-1154. | 3.617 |
| 3 | Bansal V., Misra R., Mathur J., Agrawal G. D., 2010, “Performance Analysis of Earth-Pipe-Air Heat Exchanger for Summer Cooling ”, Int. J. of Energy and Buildings, Vol. 42, pp. 645-648. | 3.617 |
| 4 | Misra R., Aseri T. K., 2011, “Thermal Performance Enhancement of Box-Type Solar Cooker: A New Approach”, Int. J. of Sustainable Energy (Taylor & Francis), Vol. 1, pp. 1-12. | 2.35 |
| 5 | Misra R., Bansal V., Mathur J., Agrawal G. D., Aseri T., 2012 “Thermal Performance Investigation of Hybrid Earth Air Tunnel Heat Exchanger”, Int. J. of Energy and Buildings, Vol. 49, pp. 531–535.  | 3.617 |
| 6 | Misra R., Aseri T. K., Jamuwa D. K., Bansal V., 2012, Assessment of CO2 Emission Reduction and Identification of CDM Potential in a Township”, Int. J. of Energy Efficiency (Springer),Vol. 5, pp. 471-481. | 1.016 |
| 7 | Bansal V., Misra R., Agrawal G. D., Mathur J., 2012, “Performance Evaluation and Economic Analysis of Integrated Earth Air Tunnel Heat Exchanger Evaporative Cooling System”, Int. J. of Energy and Buildings, Vol. 55, pp. 102-108. | 3.617 |
| 8 | Bansal V., Misra R., Agrawal G. D., Mathur J., 2012, “Performance Analysis of Integrated Earth Air Tunnel Evaporative Cooling System in Hot and Dry Climate”, Int. J. of Energy and Buildings, Vol. 47, pp. 525-532. | 3.617 |
| 9 | Bansal V., Misra R., Mathur J., Agrawal G. D., 2013, Transient effect of soil thermal conductivity and duration of operation on performance of Earth Air Tunnel Heat Exchanger, Applied Energy, Vol. 103, pp. 1–11. | 6.33 |
| 10 | Misra R., Bansal V., Mathur J., Agrawal G. D., Aseri T., 2013, “Evaluating Thermal Performance And Energy Conservation Potential of Hybrid Earth Air Tunnel Heat Exchanger In Hot And Dry Climate - In Situ Measurement”, ASME Journal of Thermal Science and Engineering Applications, pp. 1-10. | 3.394 |
| 11 | Bansal V., Misra R., Mathur J., Agrawal G. D., 2013, ‘Derating factor' New Concept for Evaluating Thermal Performance of Earth Air Tunnel Heat Exchanger: A Transient CFD Analysis, Int. J. of Applied Energy, Vol. 102, pp. 418–426. | 6.33 |
| 12 | Misra R., Bansal V., Mathur J., Agrawal G. D., Aseri T., 2013, “Transient Analysis Based Determination of Derating Factor for Earth Air Tunnel Heat Exchanger in Winter”, Int. J. of Energy and Buildings, Vol. 58, pp. 76-85. | 3.617 |
| 13 | Misra R., Bansal V., Mathur J., Agrawal G. D., Aseri T., 2013, “CFD Analysis Based Parametric Study of Derating Factor for Earth Air Tunnel Heat Exchanger” , Int. J. of Applied Energy, Vol. 103, pp. 266–277. | 6.33 |
| 14 | Misra R., Bansal V., Mathur J., Agrawal G. D., Aseri T., 2013, “Transient Analysis Based Determination of Derating Factor for Earth Air Tunnel Heat Exchanger in Summer”, Int. J. of Energy and Buildings, Vol. 58, pp. 103–110. | 3.617 |
| 15 | Jakhar S., Misra R., Bansal V., 2015, “Thermal Performance Investigation of Earth Air Tunnel Heat Exchanger Coupled With a Solar Air Heating Duct for Northwestern India, Int. J. of Energy and Buildings, Vol. 87, pp. 360-369. | 3.617 |
| 16 | Jakhar S., Misra R., Soni M. S., Gakhhar Nikhil, 2016, “Parametric simulation and experimental analysis of earth air heat exchanger with solar air heating duct”, Int. J. of Engineering Science and Technology, Accepted for Publication |  |

***List of Publications in Conference/Seminar/Workshops:***

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| --- | --- |
| **Sr. No.** | **Details (Author(s)/ Year/ Title/ Volume)** |
| 1 | Misra R., Karwa R., Agrawal P.C., 1999, “Enhanced Performance Artificially Roughened Flat Plate Solar Air Heaters’’ Seminar on Solar Technologies’ organised by The Institution of Electronics & Telecommunication Engineers, Rajasthan Local Centre, Jaipur and sponsored by REDA and RE&IL. |
| 2 | Bansal V., Misra R., Agrawal G. D., Mathur J., 2009, “Performance Analysis of Earth Air Tunnel Heat Exchanger for Summer Cooling”, International Conference on “Advances in Energy Research (ICAER)” held at I.I.T. Bombay. |
| 3 | Bansal V., Misra R., Agrawal G. D., Mathur J., 2012, “Hybrid EATHE: An Energy Efficient Method for Thermal Comfort in Buildings” 2nd IBPSA National Convention and Conference on Simulation of Building for Energy Efficiency and Better Build Environment held at MNIT, JAIPUR during Dec 21-22, 2012.  |
| 4 | Misra R., Bansal V., Aseri T.K., 2015, “CFD Analysis of Thermal Influence Zone of Earth Air Tunnel Heat Exchanger Under Transient Conditions” 14th International Conference of the International Building Performance Simulation Association being organized by IIIT Hyderabad during 7-9 Dec., 2015 at HICC Hyderabad.  |

***Attended STTP/Conferences/ Workshops/Symposiums:***

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| **Sr. No.** | **Attended STTP/Conferences/ Workshops/Symposiums** |
| 1 | Attended Q.I.P. short term course on ‘Advanced Tribology’ conducted at I.I.T. Bombay during June 18-22, 2001 |
| 2 | Attended Q.I.P. short term course on ‘Use of CNG in I.C. Engines’Advanced Tribology’ conducted at I.I.T. Roorkee from 30/6/2002 to 5/7/2002 |
| 3 | Attended ISTE and AICTE sponsored short term programme on ‘Recent Advances in Solar Energy Technology’ conducted at M.B.M. Engg. College, J.N.V. University Jodhpur from 23/12/2002 to 4/1/2003 |
| 4 | Attended AICTE sponsored National Conference on ‘Recent Advances in Mathematics with Appications in Engineering’ conducted at Govt. Engg. College Ajmer from March 12-13, 2012 |
| 5 | Participated in a Seminar on ‘Technical Terminology in Engineering’ organized by Commission for Scientific and Technical Terminology, MHRD, New Delhi conducted at Govt. Engg. College Ajmer from 6/6/2012 TO 7/6/2012 |
| 6  | Participated in a Seminar on ‘Technical Terminology in Engineering’ organized by Commission for Scientific and Technical Terminology, MHRD, New Delhi conducted at Govt. Engg. College Ajmer from 5/2/2014 to 6/2/2014 |
| 7 | Attended short course on ‘Economics and Financing of Renewable Energy Technologies’ conducted at I.I.T. Delhi during 16/7/2014 to 19/7/2014 |
| 8 | Attended one week Short Term Course on ‘Recent Advancements in Automotive Technologies’ organized by NITTR Chandigarh from August 10-14, 2015 |
| 9 | Attended one week National Workshop on ‘Green Energy and Technology’ organized by Department of Electrical and Mechanical Engg. conducted at Govt. Engg. College Ajmer from Feb. 01-05, 2016 |
| 10 | Attended one week Residential Training Programme on ‘Productivity & Competitiveness Measurement for Organizational Excellence’ organized by National Productivity Council at Port Blair from Feb. 15-19, 2016 |
| 11 | Attended one week National Workshop on ‘Green Energy and Technology’ organized by Department of Electrical and Mechanical Engg. conducted at Govt. Engg. College Ajmer from Feb. 01-05, 2016 |

***Membership of Technical Societies:***

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| **Sr. No.** | **Society** | **Membership No.** |
| 1 | Life Member of Solar Energy Society of India (SESI) | LM/1563/2011 |
| 2 | Life Member of Indian Society for Technical Education (ISTE) | LM 66296 |