Dr. Karuna M.S



PERSONAL DATA

NAME
Dr. Karuna M.S
Date of Birth
January 01, 1965.

3. PLACE OF BIRTH : Mysore,

Karnataka State, India

4. OFFICAL ADDRESS : Senior Lecturer, Mechanical Engineering

Head (In charge), Chemical Engineering

M.J.P Rohilkhand University Bareilly- 243 006, Uttar Pradesh. Telephone(R): 0581-2521947 E-Mail: m.karuna@mjpru.ac.in

5. RESIDENTIAL ADDRESS : E 16, Type 4, Professors Quarters

M.J.P Rohilkhand University Campus

Bareilly 243006 Uttar Pradesh

Telephone(R): 0581-2511947

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5. QUALIFICATIONS PhD: January 14,2019

Department of Mechanical Engineering, IFTM University, Moradabad - 560 012, India.

Master of Engg. Degree: October 25, 1995.

(Environmental Engineering) (First Class), University of Mysore, Mysore,

India.

Bachelor of Engineering: April. 1991.

(Civil Engineering) (Second Class), University

of Mysore, Mysore 570 006, India.

6. Professional Recognition

- Chaired a session in the 1st International Conference on Academic Research in Engineering, Management and Information Technology at M.J.P Rohilkhand University, Bareilly, during February 20-23, 2015.
- 2. External Expert for selection of JRF for UGC sponsored projects.
- 3. Invited Talk, 1st International Conference on Academic Research in Engineering, Management and Information Technology at M.J.P Rohilkhand University, Bareilly, during February 20-23, 2015.

NATIONAL, INTERNATIONAL CONFERENCES/SEMINARS ATTENDED:

- Presented paper on "Role of Civil Engineers in Conservation of Soil" in the "1st National Symposium on Earthworm Ecology & Environment", organized by Department of Animal Science, M.J.P Rohilkhand University, Bareilly during April 26-28, 2007.
- Presented paper on "The Future Scenario of Refrigeration & Air Conditioning Industry" in the "National Conference on Recent Advance in Mechanical and Production Engineering", organized by Department of Mechanical Engineering, G.B.Panth University of Agriculture & Technology, Panthnagar during February 12-14, 2009.
- 3. Presented paper on "SHE management system -the twenty first century Environmental management" in the National Seminar on "Management of Environmental Pollution for Sustainable Energy Production", organized by Department of Plant Science, M.J.P Rohilkhand University, Bareilly during April 10-11, 2010.
- 4. Presented paper on "Hazardous Waste Management" in the National Seminar on "Management of Environmental Pollution for Sustainable Energy Production", organized by Department of Plant Science, M.J.P Rohilkhand University, Bareilly during April 10-11, 2010.
- Presented paper on "Environmental Acts" in the National Seminar on "Management of Environmental Pollution for Sustainable Energy Production", organized by Department of Plant Science, M.J.P Rohilkhand University, Bareilly during April 10-11, 2010.
- Presented paper on "Fuel Cell- A perfect solution to the Global warming" in the National Seminar on "Advancements and Futuristic Trends in Material Science", organized by Department of Applied Science, M.J.P Rohilkhand University, Bareilly during March26-27, 2011.
- 7. Presented paper on "Software Applications making Chemical Engineer's Jobs Efficient and Effective" in the National Seminar on "Software Applications in Engineering and Technology", organized by Department of Mechanical Engineering, M.J.P Rohilkhand University, Bareilly during February 12, 2012.
- Presented paper on "Bio Ethanol as a Renewable Source of Energy" in the All India Seminar on "Pollution Prevention Through Development of Bio Based Material and Energy", organized by Department of Chemical Engineering, Malaviya National Institute of Technology, Jaipur during February 22-23, 2013
- Presented paper on "Biodiesel as a Renewable Source of Energy" in the All India Seminar on "Pollution Prevention Through Development of Bio Based Material and Energy", organized by Department of Chemical Engineering, Malaviya National Institute of Technology, Jaipur during February 22-23, 2013

- Presented paper on "A review on alternatives to conventional fuels" in the International conference on "Sustainable Innovative Techniques in Civil and Environmental Engineering", organized by Krishi Sanskriti, New Delhi during June 5th -6th, 2013
- 11. Presented paper on "A review treatment technologies for petroleum refinery waste" in the International conference on "Sustainable Innovative Techniques in Civil and Environmental Engineering", organized by Krishi Sanskriti, New Delhi during June 5th -6th, 2013
- 12. Presented poster on "Biodiesel from waste frying oil" in the International Conference on "Recent Trends in Material Science", organized by Department of Applied Physics MJP Rohilkhand University, Bareilly during November 21, 2013.
- 13. Presented paper on "Transition towards Green Economy-An improve Human Being and Social Equity" in the National Seminar on "Climate change, Environment and Economic Development", organized by Department of Humanities, M.J.P Rohilkhand University, Bareilly during February 7-8, 2014.
- 14. Presented paper on "A Review on Renewable Energy for Reducing Air Pollution" in the National Conference on "Recent Engineering Trends in Energy, Environment & Ecology", organized by Rajshree Institute of Management & Technology, Bareilly during September 27-28, 2014.
- 15. Presented paper on "Solar Energy-The ultimate Renewable Resource" in the National Conference on "Recent Engineering Trends in Energy, Environment & Ecology", organized by Rajshree Institute of Management & Technology, Bareilly during September 27-28, 2014.
- 16. Presented paper on "Computer Aided Design (CAD), Computer Aided Manufacturing (CAM) and its typical application" in the National Conference on "Recent Engineering Trends in Energy, Environment & Ecology", organized by Rajshree Institute of Management & Technology, Bareilly during September 27-28, 2014.
- 17. Presented paper on "Alternative Fuel" in the National Conference on "Recent Engineering Trends in Energy, Environment & Ecology", organized by Rajshree Institute of Management & Technology, Bareilly during September 27-28, 2014.
- 18. Presented paper on "Self-healing in polymers and polymer composites: A review" in the international Conference on "Academic Research in Engineering, Management and Information Technology", organized by Department of Mechanical and Department of Electronics & communication, M.J.P Rohilkhand University, Bareilly during February 21-23, 2015.
- 19. Presented paper on "Newton-Raphson method for simulation of multiple-effect evaporator system" in the international Conference on "Academic Research in Engineering, Management and Information Technology", organized by Department of Mechanical and Department of Electronics & communication, M.J.P Rohilkhand University, Bareilly during February 21-23, 2015
- 20. Presented paper on "Polymeric composite materials in manufacturing of light weight Helicopters" in the international Conference on "Academic Research in Engineering, Management and Information Technology", organized by Department of Mechanical and Department of Electronics & communication, M.J.P Rohilkhand University, Bareilly during February 21-23, 2015
- 21. Presented paper on "Advance Methods in Textile Waste Water Treatment An Overview" in the National Conference on "Advanced Engineering Materials", organized by Department of Mechanical Engineering, M.J.P Rohilkhand University, Bareilly during February 24-25, 2016

- 22. Presented paper on "Study on Processing Clay Nano Composite" in the National Conference on "Advanced Engineering Materials", organized by Department of Mechanical Engineering, M.J.P Rohilkhand University, Bareilly during February 24-25, 2016
- Presented paper on "Effluent Treatment in Pulp and Paper Industry" in the National Conference on "Advanced Engineering Materials", organized by Department of Mechanical Engineering, M.J.P Rohilkhand University, Bareilly during February 24-25, 2016
- 24. Presented paper on "Air Pollution Equipment- a review" in the National Conference on "Advanced Engineering Materials", organized by Department of Mechanical Engineering, M.J.P Rohilkhand University, Bareilly during February 24-25, 2016
- 25. Presented paper on "Heavy Metals in Vegetables" in the International Conference on "Academic Research in Engineering, Management and Information Technology", organized by Department of Mechanical and Department of Electronics & communication, M.J.P Rohilkhand University, Bareilly during February 17-19,

7. PROFESSIONAL EXPERIENCE

August 01, 2008 to till date : Head In Charge, Department of Chemical

Engineering, M.J.P Rohilkhand University, Bareilly

November 1, 2002 - July 31, 2008 : Head In Charge, Department of Chemical

Engineering, M.J.P Rohilkhand University, Bareilly

October 01,2003 – November 30, 2006 : Professor In Charge, Training & Placement, M.J.P.

Rohilkhand University, Bareilly.

June 1, 2002 – July 31, 2005 : Proctor, Department of Mechanical Engineering,

M.J.P Rohilkhand University, Bareilly.

March 01, 2006 – November 30,2006 : Chief Employment Officer, M.J.P Rohilkhand

University, Bareilly.

August 01, 1996 – January 15, 1997 : Training Officer, Environmental Training Institute,

KSPCB, Bangalore.

February 01, 1996 - July 31, 1996 : Assistant Environmental Officer (Contractual),

KSPCB, Bangalore

July 01, 1993 – May 31, 1993 : Design Assistant, I.R.W.S&S World Bank project,

SJCE, Mysore.

January 20, 1993 – June 30, : Site Engineer, Indavar Construction Company,

1993 Mysor

Project site-Ballarpur Industries, Nanjangud.

8. University & OTHER Positions Held

- 1. Member of The Academic Council, M.J.P Rohilkhand University (2009-2014)
- 2. Member of The Executive Council, M.J.P. Rohilkhand University (2010 2011)
- 3. Chairman, Board of Studies, and Board of Examiners, B.Tech Program Chemical Engineering, M.J.P. Rohilkhand University, (2002-2008)
- 4. Coordinator, Board of Studies, and Board of Examiners, B.Tech program, Chemical Engineering, M.J.P Rohilkhand University (2008-till date)
- 13. Member, B.O.S of Mechanical Engineering, M.J.P Rohilkhand University (1997-2011).

9. RESEARCH INTERESTS

- i. Solid Waste Management ii. Waste Water Treatment iii. Water Quality
- iv. Air Pollution

10. PROJECTS COORDINATED

- 1. "Recycling of Waste Paper In University", sponsored by A.I.C.T.E New Delhi, for a period of 3 years (from 20.11.1997 to 20.11.2000). Amount sanctioned Rs. 20 Lakh.
- 2. "Gas Evaluation through burning of Agricultural waste and their impact on Environment," Advisor this project, sponsored by world bank funded TEQIP-3, Ministry of HRD, Government of India, December 07-11, 2016, M.J.P Rohilkhand university, Bareilly.

11. CONFERENCES/WORKSHOPS/FDP/TRAINING PROGRAM COORDINATED

- 1. Industry-Institute Program, sponsored by TEQIP-3 Ministry of HRD, Government of India, April16-18, 2018, M.J.P Rohilkhand University, Bareilly.
- 2. "Water Quality Monitoring, Network Design, Sampling, Analysis & Quality Assurance" sponsored by TEQIP-2 Ministry of HRD, Government of India, March 27-31,2017, M.J.P Rohilkhand University, Bareilly.
- 3. "Municipal Solid Waste Management" sponsored by TEQIP-2 Ministry of HRD, Government of India, December 07-11, 2016, M.J.P Rohilkhand university, Bareilly.

- 4. "Ambient Air Quality and Stack Monitoring" sponsored by TEQIP-2 Ministry of HRD, Government of India, February 08-10, 2016, M.J.P Rohilkhand university, Bareilly.
- 5. "Environmental Impact Assessment" sponsored by TEQIP-2 Ministry of HRD, Government of India, March 26-28, 2015, M.J.P Rohilkhand university, Bareilly.
- 6. "Personality Development-Soft Skills Development for Organizational & Academic Effectiveness" sponsored by TEQIP-3 Ministry of HRD, Government of India, November30- December01, 2013, M.J.P Rohilkhand University, Bareilly.
- 7. "Personality Development" April21- December07, 2005, M.J.P Rohilkhand University, Bareilly.
- 8. "Communication Clinic: Written" November 17- 19, 2013, M.J.P Rohilkhand University, Bareilly

12. MEMBERSHIPS OF PROFESSIONAL BODIES

- 1. Indian Society for Technical Education (ISTE)
- 2. Environmental Audit

13. TECHNICAL PUBLICATIONS

Ph.D. PUBLICATIONS

"Trend of Air quality and its Impact on Crops/Vegetation of Bareilly", Doctoral thesis, Department of Mechanical Engineering, IFTM University, Moradabad, INDIA.

RESEARCH PAPERS

- 1. "Air Quality Index, Ventilation Coefficient and Pollution Potential Studies Over Bareilly City, Uttar Pradesh" by Karuna M.S, Upadhyay O.P, Dinesh Kumar Saxena, Mahadev Swamy M, and Shobhan Majumder in International journal of Current Research, ISSN:0975-833X Vol.9, Issue, 12, pp.63243-63255, December, 2017, http://www.journalcra.com
- "Ambient Air Quality Monitoring And Prediction of Air Pollutants Using ISCST3 and CALINE4 dispersion Models for Vehicular Emissions at Bareilly, Uttar Pradesh, India" by Karuna M.S, Upadhyay O.P, Dinesh Kumar Saxena, Mahadev Swamy M, and Shobhan Majumder in IOSR Journal of Environmental Science, Toxicology and Food Technology (IOSR-JESTFT) e-ISSN: 2319-2402,p-ISSN: 2319-2399,-833X,Volume 11,Issue 2.9,December, 2017,PP14-29 www.iosrjournals.org.

JOURNALS PUBLICATIONS

1. "Effect of Air Pollution on Environment, Vegetation & Human Health" by Mohammad Shukrullah and M.S.Karuna, in Journal of Civil Engineering and Environmental Technology, p- ISSN: 2349-8404; e-ISSN:

- **2349-879X:** Volume 4, Issue 6: October December, **2017**, pp.503-505 © Krishi Sanskriti Publications. http://www.krishisanskriti.org/Publication.html
- 2. "Polymeric Composite Materials: In Manufacturing of Light Weight Helicopters" by Anjali, Huma Warsi Khan, M.S.Karuna, in International Journal of Advance Research in Science and Engineering, ISSN-2319-8354(E), IJARSE, Vol. No.4, Special Issue(01), February 2015. http://www.ijarse.com
- 3. "Fluid catalytic Cracking Unit: A Primary Conversion process of Petroleum refineries" by Huma Warsi Khan, Anjali, M.S.Karuna, in International Journal of Advance Research in Science and Engineering, ISSN-2319-8354(E), IJARSE, Vol. No.4, Special Issue(01), February 2015. http://www.ijarse.com
- 4. "Self-Healing in Polymers and Polymer Composite: A Review" by Parul, Aradhana, M.S.Karuna, in International Journal of Advance Research in Science and Engineering, ISSN-2319-8354(E), IJARSE, Vol. No.4, Special Issue(01), February 2015. http://www.ijarse.com
- 5. "Newton-Raphson Method for Simulation of Multiple-Effect Evaporator System" by Aradhana Kanchan, Parul, M.S.Karuna, in International Journal of Advance Research in Science and Engineering, ISSN-2319-8354(E), IJARSE, Vol. No.4, Special Issue(01), February 2015. http://www.ijarse.com
- 6. "A Review on Alternatives to Conventional Fuels" by Huma Warsi Khan, Faizan Ahmad, M.S.Karuna, Jharna Gupta and Mohd.Imran in International Journal of Environmental Research and Development", [IJERD] ISSN No: 2249-3131, Volume 3, Number3 2013.
- 7. "A Review of Treatment Technologies for Petroleum Refinery" by Faizan Ahmad, Huma Warsi Khan, M.S.Karuna, Mohd.Imran, Priya Pal in International Journal of Environmental Research and Development, [IJERD] ISSN No: 2249-3131, Volume 3, Number3 2013.
- 8. "Eco-friendly Residue Upgrading Technologies for Refineries" by Huma Warsi Khan, Moina Athar, M.S.Karuna, in American International Journal of Research in Science, Technology, Engineering and Mathematics", ISSN (Print):2328-3491, ISSN(Online):2328-3580, ISSN(CD-ROM): 2328-3629. Available online at http://www.iasir.net, 2013.

14.FDP/TRAINING PROGRAM ATTENDED

- 1. Attended and participated in the TEQIP FDP on "Advance Wastewater Treatment System for Emerging Contaminant: Special Emphasis on Hospital Liquid Waste Management" organized by the Indian Institute of Technology, Kharagpur during November18-20, 2019 (three days).
- Attended and participated in the TEQIP FDP on "System Thinking and Environmental engineering for Sustainable Decision Making" organized by the Indian Institute of Technology, Roorkee during June03-07, 2019 (one week).
- 3. Attended and participated in the training programme on "Academic leadership" organized by the Centre of Academic Leadership and Education Management, Aligarh Muslim University, Aligarh at MJP Rohilkhand University, Bareilly during April27-30, 2019 (Four days).
- 4. Attended and participated in the GIAN course on "Membrane Separation for The Desalination of Water: Process, Application & Transportation Theory" organized by the Indian Institute of Technology, Roorkee during October29-November02, 2018 (one week).
- Attended and participated in the QIP course on "Nanotechnology: Basics and Bio-Chemical Applications" organized by the Department of Chemical Engineering, Indian Institute of Technology, Roorkee during May21-25, 2018 (one week).

- Attended and participated in the FDP on "Entrepreneurship" organized by the ABSEEC Startups
 Lab(ASL), ABES Engineering College, Ghaziabad in association with Department of Business
 Administration, MJP Rohilkhand University, Bareilly during Januvary2-8, 2018 (one week).
- Attended and participated in the QIP course on "Green Chemistry for Cleaner Technology" organized by the Department of Chemical Engineering, Indian Institute of Technology, Roorkee during Januvary9-13, 2017 (one week).
- 8. Attended and participated in the Professional Development Programme on "Leakages and Water Proofing Treatment in Buildings" conducted by, Engineering Staff College of India, Hyderabad during August 22-26, 2016 (one week).
- 9. Attended and participated in the Executive Education Programme on "Decision Making for Managerial Effectiveness" conducted by, Indian institute of Management, Bangalore during August 18-20, 2016 (three days).
- 10. Attended and participated in the Executive Education Programme on "Leading with Joy: Leveraging the Mind to Achieve Greater Impact" conducted by, Indian institute of Management, Bangalore during January 14-16, 2016 (three days).
- 11. Attended and participated in the Executive Education Programme on "Inner Transformation for Outer Advancement" conducted by, Indian institute of Management, Bangalore during November 16-18, 2015 (three days).
- 12. Attended and participated in the Industry Academia workshop on "A-Z of Natural Gas and LNG" organized by the Petroleum Federation of India and Lovraj Kumar memorial Trust(LKMT), Delhi in association with Petronet LNG Ltd. at LNG Terminal, Dahej, Gujarat, during October 08-09, 2015 (three days).
- 13. Attended and participated in the TEQIP FDP on "System Thinking and Environmental engineering for Sustainable Decision Making" organized by the Indian Institute of Technology, Roorkee during June03-07, 2019 (one week).
- 14. Attended and participated in the Faculty Development Course on "Frontier Areas of Research in Mechanical Engineering" organized by the Department of Mechanical Engineering, Mahatma Jyotiba Phule Rohilkhand University, Bareilly during March 25-29, 2014 (one week).
- 15. Attended and participated in the Faculty Development Course on "MATLAB and Simulink Programming" organized by the Department of CS & IT, Mahatma Jyotiba Phule Rohilkhand University, Bareilly during February 4-8, 2014 (one week).
- 16. Attended and participated in the short-term course on "Pravartana 2013: Workshop on Applied Mechanics" organized by the TEQIP: Knowledge Incubation Centre, Indian Institute of Technology, Kanpur during October 4-7, 2013 (one week).
- 17. Attended and participated in the workshop on "Industry -Academia Interaction for Strengthening Technical Education" organized by the PHD Chamber of Commerce and Industry, Lucknow and Harcourt Butler Technological Institute, Kanpur, during August 30, 2013 (one day).
- 18. Attended and participated in the Industry-Academia Workshop on "Refinery Process Technology: Advance through Research & Development" organized by the Petroleum Federation of India and Lovraj Kumar Memorial Trust, New Delhi, during July 30, 2013 (one Day).
- 19. Attended and participated in the UGC sponsored course on "*Research Methodology*" organized by the U.G.C. Coaching Scheme, Mahatma Jyotiba Phule Rohilkhand University, Bareilly during February 7-16, 2013 (two weeks).

- 20. Attended and participated in the short-term course on "Recent Advances in Pollution Prevention Technologies in Process Industries" organized by the Department of Chemical Engineering, Malviya National Institute of Technology, Jaipur during October 22-26, 2012 (one week).
- 21. Attended and participated in the QIP course on "Environment Health and Safety Management" organized by the Department of Chemical Engineering, Indian Institute of Technology, Roorkee during October 25-29, 2010 (one week).
- 22. Attended and participated in the Short-term Course on "Natural Gas Processing and Natural Gas/LPG Pipeline Transportation" organized Petroleum Federation of India, GAIL(India) Ltd and the Lovraj Kumar Memorial Trust (LKMT), Noida, during June 29-July 1, 2009 (three days).
- 23. Attended and participated in the training programme on "Environment, Health and Safety Management in Process Industries" organized by the department of Chemical Engineering, Indian Institute of Technology, Roorkee during October 20-22, 2008 (three days).
- 24. Attended and participated in the staff development programme on "*CAD & FEM*" organized by the Department of Mechanical Engineering, Motilal Nehru National Institute of Technology, Allahabad during July21st- August2nd, 2008 (two week).
- 25. Attended and participated in the training programme on "*Municipal Solid Waste- Planning, Collection, Handling and Disposal*" organized by the Department of Chemical Engineering, Indian Institute of Technology, Roorkee during December4-8, 2007 (one week).
- 26. Attended and participated in the QIP course on "Hazardous waste Management" organized by the Department of Chemical Engineering, Indian Institute of Technology, Roorkee during December4-8, 2007 (one week).
- 27. Attended and participated in the short-term course on "Improving Industry-Institute Interaction" conducted by the EDIC Department, National Institute of Technical Teachers' Training and Research (NITTTR), Chandigarh during January 25-27, 2005 (three days).
- 28. Attended and participated in the training programme on "*Blue Print For Success*" organized by the Qualified Learning System Co.Inc(USA), New Delhi during August 24-26, 2006 (Three days).
- 29. Attended and participated in the workshop on "Industry -Institute Partnership" organized by the Shri Ram Murti Smarak College of Engineering & Technology, during December 09, 2005 (One Day).
- 30. Attended and participated in the UGC sponsored Orientation Course on "Value Education" organized by UGC-Academic Staff College, Jawaharlal Nehru Technological University, Hyderabad, during July 23-August 20, 2003 (one month).
