



**Designation:** Reader

**Specialization:** Environmental Engineering, Separation Processes, Fluidization Engineering, Petroleum Refining Engineering

**Courses Offered:** Advanced Separation Processes, Membrane Separation Process, Heat Transfer Operations, Fluid & Particle Mechanics, Petroleum Refinery Engineering, Solar Energy, Fluidization Egg., Transport Phenomena in Biological system, Industrial Psychology

**Research Publications/ Books:**

1. P.K. Mishra and P.D. Sunawala, "Furnace Analysis Using Zone Method for Counter Flow Dry Process Rotary Kiln", Indian Journal of Technology, 27, 467-472, 1989.

2. P.K. Mishra and P.D. Sunawala, "Analysis of a Batch Open-Hearth Furnace Using the Zone Method", Indian Journal of Technology, 27, 478-482, 1989.
3. P.K. Mishra, Patanjali V. & R.R. Narayanan, Proc. Characterization of Cellulose Nitrate Membrane for Separation of Various Aqueous Organic Mixtures Through Pervaporation", Indo-Italian workshop on Emerging Technologies for Industrial Wastewater Treatment and Environment, held at NEERI, Nagpur, September 2-4, 2002, p. 311-316.
4. P.K. Mishra & Gaurav Bose, Proc. Treatment of Synthetically Prepared Pharmaceutical Waste By Pervaporation Technique", Indo-Italian workshop on Emerging Technologies for Industrial Wastewater Treatment and Environment, held at NEERI, Nagpur, September 2-4, 2002, p. 305-310.
5. V. Patanjali & P.K. Mishra, Proc. Removal of Hexavalent Chromium from Industrial Effluents Using Low Cost Adsorbents", Indo-Italian workshop on Emerging Technologies for Industrial Wastewater Treatment and Environment, held at NEERI, Nagpur, September 2-4, 2002, p. 293-299.
6. Manoj Kumar, R.R. Narayanan, B.N. Rai and P.K. Mishra, "Disposal and Utilization of Red Mud", Proceedings of IAEM National Conference on 'Recent Advances in Waste Management', held at IT, BHU, February 23-25, 2001, p71-73.
7. R.K. Upadhyaya, R.R. Narayanan, P.K. Mishra and B.N. Rai, "Flyash and Its Utilization - A Review", Proceedings of IAEM National Conference on 'Recent Advances in Waste Management', held at IT, BHU, February 23-25, 2001, p75-78.
8. Dharendra Awasthi , R.R. Narayanan, P.K. Mishra and B.N. Rai, "Recycling of Polyurethane", Proceedings of IAEM National Conference on 'Recent Advances in Waste Management', held at IT, BHU, February 23-25, 2001, p79-83.
9. M.K. Chaudhary, R.R. Narayanan, B.N. Rai and P.K. Mishra, "Treatment of Phenolic Wastewater: An Insight into Different processes", Proceedings of IAEM National Conference on 'Recent Advances in Waste Management', held at IT, BHU, February 23-25, 2001, p275-280.
10. K.B. Tewari, A.K. Jadey, Rajani Kumari and P.K. Mishra, "ELMP - A Promising Technology to Treat Wastewater", Proceedings of IAEM National Conference on 'Recent Advances in Waste Management', held at IT, BHU, February 23-25, 2001, p365-368.
11. R.R. Narayanan, Dharmendra Prakash and P.K. Mishra, "Pervaporation , Prospectus and Performance for the Treatment of Waste Streams", Proceedings of IAEM National Conference on 'Recent Advances in Waste Management', held at IT, BHU, February 23-25, 2001, p. 369-376.
12. J.P. Chaturvedi, P.K. Mishra & P. Mishra, "Synthesis and Purification of Thymol Using Metacresol as Raw Material", Proceedings of SPI-2003 held at IT, BHU during 14-16 Feb., 2003.

13. D.M. Nangare & P.K. Mishra, "Treatment of Synthetically Prepared Chromium Bearing Wastewater Using Thermal Parametric Pumping", Proceedings of SPI-2003 held at IT, BHU during 14-16 Feb., 2003.
14. Dinesh B. Mantri & P.K. Mishra, "Separation of Methanol-MTBE Mixture By Pervaporation Using PTFE Membrane", Proceedings of SPI-2003 held at IT, BHU during 14-16 Feb., 2003.
15. P.K. Mishra, A. Balaria & G.K. Kedia, "Use of mangitera indica and ipomea pistula for the Removal of Heavy Metals" Proceedings of SPI-2003 held at IT, BHU during 14-16 Feb., 2003.
16. P.K. Mishra, P. Varanasi & K.B. Tewari, "Treatment of Chromium Bearing Wastewater Using ELMP Technique", Proceedings of SPI-2003 held at IT, BHU during 14-16 Feb., 2003

### **Contributed Chapters in Books:**

1. B.N. Rai, P.K. Mishra & S.N. Upadhayay, "Rotating Biological Contactors" Concise Encyclopedia of Biotechnology, (Ed. A. Pandey), Hawarth Press USA (in press).
2. P.K. Mishra, B.N. Rai & S.N. Upadhayay, "Trickling Filters" Concise Encyclopedia of Biotechnology, (Ed. A. Pandey), Hawarth Press USA (in press).
3. S.N. Upadhayay, P.K. Mishra & B.N. Rai, "Waste Stabilization Ponds" Concise Encyclopedia of Biotechnology, (Ed. A. Pandey), Hawarth Press USA (in press).
4. P.K. Mishra, S.N. Upadhayay & B.N. Rai, "Oxygen Transfer in Bio-Reactors" Concise Encyclopedia of Biotechnology, (Ed. A. Pandey), Hawarth Press USA (in press).
5. S.N. Upadhayay, P.K. Mishra & B.N. Rai, "Bio Reactor for Wastewater Treatment" Concise Encyclopedia of Biotechnology, (Ed. A. Pandey), Hawarth Press USA (in press).

### **Conference/Symposia/Seminars Attended:**

43rd Chemical Engineering Congress, Dec. 18-21(1990).

National Symposium on Recent Trends in Membrane Transport, IT, BHU, March 19-20(1998).

National Symposium on Advances in Chemical Reaction Engineering, IT, BHU, March 5-7, (1997).

National Symposium on Chemical Engineering Education and Research, IT, BHU, Aug. 6-8(1997).

National Seminar on Industrial Pollution and its Control, IT, BHU, Feb. 18-19(2000).

National Symposium on Photo catalytic Process on Solid Surfaces, IT, BHU, March 18-20(2000).

National Symposium on New Horizon in Heterogeneous Catalysts, IT, BHU, Feb. 22-24, 2002.

**Membership of Societies:** Life Member IICTE and Mahamana Malaviya Foundation

**Honors/Awards:**

Two best paper awards in National Seminar

**Administrative Post Held:**

Examination In charge, Department of Chemical Engineering  
Committee Member, Entrepreneurship Cell, IT, BHU  
Committee Member, Alumni Sangam, IT, BHU

**Any Other Achievement:**

Convener, RAWM-2001, IAEM National Conference on Recent Advances in Waste Management held at IT, BHU during February 23-25, 2001.

Organizing Secretary, SPI-2003, National Conference on Separation in Process Industries held at Department of Chemical Engineering & Technology, IT, BHU during Feb. 14-16, 2003.

Coordinator, Seminar on Entrepreneurship - Opportunities & Challenges, held at IT, BHU on Nov. 8th , 2003

Organizing Secretary, BSEC-2004, National Seminar on Biomass as Source of Energy and Chemicals to be held at IT, BHU during 28-29 Feb. 2004.

**Editorial Work:**

1. Proceedings of RAWM-2001, Edited by S.N. Upadhyay, B.N. Rai and P.K. Mishra.
3. Proceedings of SPI - 2003, Edited by P.K. Mishra, B.N. Rai, K.K. Srivastva & S.N. Upadhyay

