

Curriculum Vitae

Dr. V.P. Sharma
Senior Principal Scientist



CSIR-Indian Institute of Toxicology Research
(Council of Scientific and Industrial Research)
M.G.Marg, Lucknow

2013



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DATE OF BIRTH & PLACE : December 10, 1964
Allahabad

ACADEMIC QUALIFICATIONS :

Degree	University	Year	Subject(s)
B.Sc.	Lucknow University, Lucknow	1982	Botany Zoology and Chemistry
M.Sc.	Lucknow University, Lucknow	1984	Chemistry
Proficiency in French	Lucknow University, Lucknow	1988	French
Ph. D. *	Kanpur University, Kanpur	1994	Chemistry
PGD in HRM	IGNOU, Govt. of India, New Delhi	1996	Human Resource Management
* Title of the thesis: Synthesis and toxicological evaluation of Plasticizer-Stabilizer complexes for plastics.			

DETAILS AND NATURE OF PRESENT AND PREVIOUS EMPLOYMENT:

Post held	College / Institute	From / To	Nature of Employment
Lecturer	St. Francis College, Lucknow	9.07.84 to 12.05.87	Teaching
Scientist 'B'	Indian Institute of Toxicology Research, CSIR, Lucknow	12.05.87 to 12.05.92	Research and Development
Scientist 'C'	Indian Institute of Toxicology Research, CSIR, Lucknow	12.05.92 to 12.05.97	Research and Development
Scientist 'E-I'	Indian Institute of Toxicology Research, CSIR, Lucknow	12.05.97 to 12/5/02	Research and Development
Scientist 'E-II'	Indian Institute of Toxicology Research, CSIR, Lucknow	12.05.02 to 12.05.07	Research and Development
Sr. Principal Scientist & Quality Manager IITR as well as Faculty under Academy of Scientific & Industrial Research [AcSIR]	Indian Institute of Toxicology Research, CSIR, Lucknow	12.05.07 to date	Teaching, Research & Development

BRIEF SUMMARY ON CURRENT AREAS OF RESEARCH INTEREST

Basic Research

Plastic could pose health risks to the users due to the migration of chemical additives, which are used to impart the unique properties to plastics such as lightweight, flexibility and colour. Migration of Phthalic acid esters used as plasticizers and Organometallic stabilizers from the packaging material into stored in food material and biological fluids have been reported. In order to minimize the risk of migration from the finished plastic safer plasticizer cum stabilizer complexes were developed. It is anticipated that the migration from the finished plastics will be minimal since the size of the molecule would be large enough to be located in the matrix of the molecule bonded with Vander Wall forces.

Series of new plasticizer cum stabilizer complexes (5 No's) with the potential of providing plasticizer and stabilizer properties were synthesized from Phthalic acid esters (PAEs) which are used as plasticizers and R_3SnX , organotin compounds which are commonly used as stabilizers. These were identified and characterized by standard physico-chemical techniques. The newly synthesized complexes exhibited low order of toxicity as determined by lethal dose (LD_{50}) in comparison to phthalate or organotin compounds individually. Further, the degree of migration of the plasticizer-stabilizer complexes from finished plastic sheets was significantly low. The plastic sheets fabricated using PVC resin 613 with these complexes at DMSRDE; Kanpur showed that mono-butyl tri-butyl tin phthalate (MBTBTP) and mono-octyl tri-butyl tin phthalate (MOTBTP) were best to provide acceptably degree of physico-chemical properties with respect to clarity of plastic sheets, texture, odour, tensile strength, and percentage elongation. The migrational and biological behavior from the plastic sheets fabricated from plasticizer-stabilizer complex and PVC resin 613 has also been determined. The process for the synthesis of plasticizer-stabilizer complexes for the manufacture of plastics was patented [Patent No. 177873, Feb. 22, 1997].

Applied Research

Quality Management System implementation [IS/ISO/IEC 17025:2005] and R&D work related to suitability assessment of finished plastics and polymeric product(s) and other areas of institutional priority. Based on the R&D studies of our group on the safety assurance of the plastic and polymeric materials, suitable specifications have been developed and updated for testing of products used in packaging and storage of food materials, drugs, life saving fluids, cosmetics, transportation of water, etc. In addition to this there is active participation in twelfth five year plan related to Certified Reference Material (CRMs), water and environmental health.

Compliance to NABL/Good Laboratory Practices (GLPs) is the key to international acceptance of safety data/reports on industrial and consumable products. Harmonized protocols and test procedures with compliance to QMS improve mutual acceptance of data/reports and avoid technical barriers to the international trade. It eliminates the ground for expensive repetitions and expedites regulatory decisions which in-turn benefits both the society and the industry. Regulatory toxicology capability with good QMS compliance is the global requirement and upcoming R&D based venture considering its cost effectiveness in India. I am looking after the same as Quality Manager for NABL activity and Head Quality Assurance of in process GLP activities at CSIR-IITR, Lucknow.

Teaching

Faculty for Academy of Scientific & Industrial Research [AcSIR] under CSIR, New Delhi for Biological and Chemical Sciences. Providing guidance for R&D work and imparting education as per UGC norms for PhDs students. Supporting in CSIR-800 mission oriented program during 2012-2017. Resource person for UP Government training Centers of Excellence/ universities and other academic institutions of the country.

SPECIAL TRAINING/DEPUTATIONS

- Quality Management System Lead Auditor Course (ISO 9000:2000) completed at Achievement's Labs' Management Systems Institute during the period 26th – 30th October 2005 at NOIDA. The course is

registered with National Registration Board for Personnel & Training (NRBPT) a constituent of QCI and a member of IPC.

- Municipal and Bio-medical waste management: Perspective and Challenges. Organized by Toxics Links, New Delhi, August 23-24, 2005 at Lucknow.
- Participated in Management Development Programme of Indian Institute of Management, Lucknow December 10-12, 2007
- Completion of Six Sigma Green Belt course on Performance management Method & Business Strategy registered with national registration board for personal & Training (Govt. of India) at achievement Lab management System Institute, Noida. (29th Aug- 2nd Sept. 07)
- Deputed in 3rd National Quality Conclave for National Wellbeing organized by Quality Council of India, New Delhi February 16-17, 2008 at Hotel Le Meridian, New Delhi, India.
- Participated in CSIR Leadership Development Programme at Human Resource Development Centre, Ghaziabad, and completed LDP 01-08, February 17-29, 2008 and May 3-8, 2008.

MEMBERSHIP OF PROFESSIONAL/SCIENTIFIC SOCIETIES

- Association of Food Scientists & Technologists, Mysore.
- Indian Academy of Neuroscience
- Indian Chemical Society
- Indian Council of Chemists
- Indian Science Congress Association
- Indian Academy of Science
- Indian Pharmacological Society
- International Society for Environmental Protection
- International Union of Pure and Applied Chemists
- Bombay Natural History Society (15977/2010)
- The Society for Polymer Science (India)
- Maulana Azad Memorial Society
- Society of Biological Chemists
- Society of Toxicology (India)
- The Academy of Environmental Biology
- Society for the Advancement of Science and Technology, U.P.
- International Society of Environmental Protection Gorakhpur, U.P.
- Bioved Research & Communication Centre.
- Society of Toxicology, USA
- New York Academy of Sciences, New York
- Society of Earth Scientists
- Molecular Cellular Cognition Society [MCCS]

MEMBERSHIP OF THE TECHNICAL/PROFESSIONAL COMMITTEES

- Business Development Group of ITRC
- Member, Management Council, ITRC
- Stores Disposal and Condemnation Committee, ITRC.
- National Children and Science Congress
- Member of Synthetic Milk Committee of Govt. of Uttar Pradesh
- Bureau of Indian Standards Plastics Sectional Committee (PCD 12)
- Bureau of Indian Standards Industrial Safety and Chemical Hazards Sectional Committee (CHD 8)
- Bureau of Indian Standards Industrial Safety and Chemical Hazards Sectional Committee (CHD 13)
- Bureau of Indian Standards Water Quality Sectional Committee (CHD 7)
- Bureau of Indian Standards Plastic Piping Systems Sectional Committee (CED 50)
- Joint FAO/WHO Expert Committee of United Nation on Food additives and Contaminants for 2007-2011 by Ministry of Agriculture and co-operation (IC Division) and WHO.
- Quality Manager CSIR-IITR, Lucknow wef 1st January 2011.
- Vigyan Prasar [47079/47656]
- Head, Quality Assurance, Good Laboratory Practice [GLP] Vishaktata Parikshan; GLP Anuroop Suvidha at CSIR-IITR, Lucknow

VISITS ABROAD

- Visited Brisbane, Australia – under CREN-CSC Programme, for Training-Workshop on Nutrient Analysis in Water And Wastewater, during March 10-17, 1997.
- Visited Kuala Lumpur, Malaysia as member of Indian Delegation for participating in ISO/TC61 Meeting on Plastics September, 23-30 2011.

HONOURS/AWARDS/ RECOGNITIONS

Awarded **Certificate of Merit** in Graduate Study at Lucknow Christian College, Lucknow University, Lucknow, 1982.

Awarded **Young Scientist Convention Award** for the paper entitled “Synthesis of plasticizer-stabilizer complexes” by Indian Chemical Society, December 25-29, 1989 at Indore, M.P.

Awarded **Certificate of Honour** for the fabrication of **Mobile Water Analysis Laboratory** at ITRC, Lucknow under the aegis of Rajeev Gandhi National Drinking Water Mission, 1990.

Awarded **Certificate of Appreciation** by Regional Science Centre under the National Council of Museums for organizing the campaign at their premises Ekta Vihar, Aliganj, Lucknow, February 21-28, 1991.

Awarded **Certificate of Appreciation** by Department of Environment & Forests, Govt. of India, for ITRC's Participation in the exhibition held at Pragati Maidan, New Delhi, November, 1991.

Awarded **Gold Medal for the Best Research Presentation (BRPM)** for the paper entitled “Synthesis and anti-microbial study of new plasticizer-stabilizer complexes for plastics” at XII annual Session of Academy of Environmental Biology, Rewa, M.P., December 23-26, 1991.

Awarded **Certificate of Appreciation** by Council for the Advancement of People Action and Rural Technology (CAPART) for organizing the Training Course at Midnapore, March 14-18, 1992.

Awarded **Certificate of Appreciation** by Council for the Advancement of People Action and Rural Technology (CAPART) for organizing the Training Course at Coimbatore, September 24-28, 1992.

Awarded **Best Paper** for the paper entitled “Effect of physico-chemical factors on migration of plastic additives” in Environmental and Analytical Chemistry Section of XI Annual Conference of Indian Council of Chemists held at Muzaffarpur, March 11-13, 1993.

Awarded **Most Inquisitive Participant** by Queensland Health Scientific Services, Brisbane, Australia during Workshop on Nutrient Analysis of Water & Waste Water, March 10-17, 1997.

Awarded **Certificate of Accomplishment** by Central Water Commission, Govt. of India for providing training to CWC personnel's during July 11-13, 2002.

Awarded **ISCA Best Poster Presentation Award** in the section of Material Science during 90th Indian Science Congress held at Bangalore. January 3-7, 2003.

Appointed as **Associate Editor** for the **Journal of Ecophysiology and Occupational Health** w.e.f. 1 October 2004 -2009

Awarded **2nd Best Poster award** for Glass fiber reinforced plastic ka swasthya ki drishti se suraksha mulyankan” Priyanka Ojha, C. S. Ojha and **V. P. Sharma** at International Science Symposium in Hindi Medium. “**Paryavaran, Swasthya, Jaiv avam Sookhna Proudigiki – Nootan Sopan (Himavas 2005)**. 28 Feb. – 2 Mar. 2005.

QMS Lead Auditor for ISO 9000:2000 under registration with Management Systems Institutes, Noida (Cert. No. 26-30 Oct’05/ Noida dated 31st October 2005) held during Oct ,26-30, 2005.

Lead Auditor for Food Hazard and Critical Care Point and Food Management System as per NABL Requirement. The training was attended at National Institute of Training and Standardization at Noida from June 12-17, 2006.

Selected as **Secretary** of Uttar Pradesh Association For Science and Technology Advancement (UPASTA)- Lucknow [2006-2012] and Executive Member since 2012 to till date.

Lead Auditor Course on Environmental Management System at Human Resource Management Institute Hyderabad from October 18-24, 2007

Awarded by CSIR for successful completion of **CSIR Leadership Development Programme** for leadership roles, competencies, applications and personal mastery with formal evaluation at HRDC CSIR Centre Ghaziabad, May, 2008.

Awarded certificate for DST Scientist and Administrators Interface Training Programme at Lal Bahadur Shastri National Academy [LBSNA, Mussoorie, December 21-25, 2009.

Workshop on Metrology in Chemistry in Environmental Analytics under Indo German Technical Cooperation, Jan 11-15, 2010.

Awarded certificate of Participation in WHO TDR Training Workshop on Good Laboratory Practices under Special Programme for Research & Training in Tropical Diseases, at CSIR-IITR, Lucknow, Jan 10-11, 2011.

Awarded certificate of Participation in Training Seminar on OECD principles in GLP, at CSIR-IITR, Lucknow, May 13th, 2013.

Participated in the **GLP workshop** organized by Vishaktata Parikshan: GLP Anuroop Suvidha at CSIR-IITR, Lucknow, June 17, 2013.

Faculty of Academy of Scientific and Industrial R4esearch [AcSIR] under CSIR, New Delhi for Biological and Chemical Sciences since 2011 to till date.

Beside this secured honour and appreciation as a team member for water quality assessment/demonstration of ITRC Technologies. Several programs were organized in collaboration with U.P. Jal Nigam, Lucknow, Public Health Engineering Department, U.P. CST, CPCB, RSCL, CSIR Headquarter and non-governmental organizations.

PATENTS / RESEARCH PAPERS / REPORTS / MANUALS

Patents

1. A process for the synthesis of a complex useful as plasticizer-stabilizer for the manufacture of plastics. **V.P. Sharma** and P.K. Seth. Patent No. NF-151/90-PAT (177873, Feb. 22, 1997).
2. Portable Water Analysis Kit for physico-chemical and bacteriological analysis of drinking water sources. P.K. Ray, J.W. Bhattacharji, P.K. Seth, Harish Chandra, V.K. Sehgal, R.K. Sharma, **V.P. Sharma**, R. Gopal, S. Kumar, R.K. Srivastava, S.P. Pathak, and P.W. Ramteke. Patent No. 619/Del/90.

Research Papers/Reports/Manuals/Book Chapters:

1. **V.P. Sharma**, Sanjay Kumar, J.W. Bhattacharya, P.K. Seth, and P.K. Ray. A manual on Water kit for Physico-chemical and Bacteriological analysis of Water. 1989.
2. **V.P. Sharma**, A. K. Saxena, I. Hussain and P.K. Seth. Synthesis of new plasticizer-stabilizer for plastics. Proc. XXVI Annual Conference of Indian Chemists, Indore, India, December 24-29, 1989.
3. Subramaniam, **V.P. Sharma** and P.K. Seth. Influence of stress on phosphoinositides in rat brain. Neurosci. Lett. 109.331-334, 1990
4. **V.P. Sharma**. Safety evaluation of water with particular reference to metals and pesticides. Training Course on water in collaboration with U.P. Jal Nigam, Nainital, India, July 22-26, 1990.
5. Harish Chandra, Ram Gopal, Sanjay Kumar, S.P. Pathak, P.K. Seth, V.K. Sehgal, **V.P. Sharma**, R.K. Sharma, S.K. Srivastava, and P.N. Vishwanathan. Manual of Mobile Water Testing Laboratory for Quality and Safety of Rural Drinking Water, August 3, 1990.
6. **V.P. Sharma**, P.W. Ramteke, H. Chandra, P.K. Seth, and P.K. Ray. Assessment of drinking water quality of the gravity feed water supply GPS in Almora and Kumaon Regions. September 23rd – October 2nd, 1990.
7. **V.P. Sharma**, A.K. Saxena, Z.K. Khan, H.K. Singh, and P.K. Seth. Synthesis and antimicrobial study of new plasticizer complexes for plastic. Proc. XI Annual Session of the Academy of Environmental Biology, Aurangabad, India. **Awarded Best Research Presentation Gold Medal and Citation** at XII annual session of the Academy of Environmental Biology, Rewa, December 23-26, 1991.
8. **V.P. Sharma** and P.K. Seth. Health hazards of plastics and polymers. Presented at National Workshop on "Plastics, Polymers and Rubbers" held at Research Design and Standard Organization (RDSO), Lucknow, India, April 29th – May 5th, 1991.
9. **V.P. Sharma**, A.K. Saxena, L.D. Khandpal and P.K. Seth. A novel approach to develop less toxic additive for plastic and polymers. Int. J. Toxicol. Occup. Env. Hlth. 1,1 1991.
10. P.K. Seth, **V.P. Sharma**, and S.P. Pathak. Mobile laboratory for water quality monitoring. Proc. Workshop on Rural Water Drinking in collaboration with Commonwealth Science Council and Department of Rural Development, NGRI, Hyderabad, July 4-8, 1991.
11. P.K. Seth, and **V.P. Sharma**. Drinking water quality analysis report of Koiron and Meja Block of Allahabad, January 1991.
12. Shushil Kumar, R.B. Raizada, **V.P. Sharma**, F. Gundevia, N.K. Malhotra, and P.K. Seth. Assessment of carcinogenic effects of using asbestos cement and PVC pipes / storage tanks for drinking water supply (Report). Sponsored by Ministry of Urban Development, Govt. of India, New Delhi.
13. **V.P. Sharma**, C.S. Ojha, K. Chandra, and P.K. Seth. Global migration of fibre reinforced plastics (FRP) pipes sponsored by M/S Hind Protective Coatings Ltd., New Delhi, February 1991.
14. **V.P. Sharma**, C.S. Ojha, K. Chandra, and P.K. Seth. Toxicological evaluation of glass fibre reinforced plastic plates "Thalli" for spastic children (Report). Sponsored by District Rehabilitation Centre, Ministry of Social Welfare, New Delhi.

15. **V.P. Sharma**. Disinfection and risk assessment with particular relation to metals and pesticides during Water quality monitoring Training Course at Midnapore, (West Bengal) India, March 24-28, 1992.
16. **V.P. Sharma** and P.K. Seth. Environmental Pollution in the perspective of science and religion. J. Environ. Res. 2, 23-27, 1992.
17. **V.P. Sharma**, A.K. Agrawal, R.K.S. Dogra, V. Mishra, S.P. Srivastava, P.N. Vishwanathan, and P.K. Seth. Safety evaluation of stainless steel to be used for making domestic cooking utensils (Report), Sponsored by Steel Authority of India Limited, Ranchi, 1992.
18. A.K. Agrawal and **V.P. Sharma**. Safety evaluation of plastics and metal containers. Proceeding Training Course on Risk Assessment and Management, June 5-25, pp 1-12, 1993, Under World Bank Aided Industrial Pollution Control Project of Ministry of Environment and Forests, Govt. of India.
19. **V.P. Sharma** and P.K. Seth. Effect of physico-chemical factors on migration of plastic additives presented at XI Annual Conference of Indian Council of Chemists at Muzaffarpur, March 11-14, 1993, and was declared as the best paper for **Young Scientist Award**.
20. D.P. Majumdar, K. Loomba, **V.P. Sharma**, R. Kumar, C.P. Govila, and P.K. Seth. Dissolution study of a plastic - "Gutta Percha" used in dentistry. Proc. Indian Council of Chemists, Annual Conference at Warangal, December 1993.
21. S.P. Pathak, P.W. Ramteke, **V.P. Sharma**, K. Gopal, and P.K. Seth. Contributions of Industrial Toxicology Research Center, Lucknow to Rajiv Gandhi National Drinking Water Mission (1986-1994), Department of Rural Development, Ministry of Agriculture, Govt. of India.
22. **V.P. Sharma** and P.K. Seth. Safety evaluation of pearl-pet bottles for packaging of alcoholic drinks. Sponsored by M/S Pearl Polymers Limited, Delhi, March 1995.
23. **V.P. Sharma** and P.K. Seth. Acute and sub-acute toxicity of polyelectrolyte Catfloc-T and Indfloc-238. Sponsored by M/S Minakshi Traders, Bhubaneswar and Public Health Maintenance Division II, Bhubneshwar, July 1995.
24. **V.P. Sharma**, C.P. Govilla, K.K. Wadhvani, K. Loomba, P.K. Seth, D.P. Majumdar, and R. Kumar. Assessment of dissolution pattern of Gutta Percha presented during the 10th Annual Conference of Federation of Operative Dentistry, India, and 3rd Annual Conference of Endodontic Society at Hotel Taj, Lucknow, November 24-26, 1995.
25. **V.P. Sharma** and P.K. Seth. Safety evaluation of low-density polyethylene recycled film for packaging of milk. Sponsored by Council of Science and Technology, U.P. under a project to Pradeshik Cooperative Dairy Federation, Lucknow, April 1996.
26. **V.P. Sharma** and P.K. Seth. Waste Management: Importance and Approaches in the Plastic Industry presented during National Seminar on Waste Management. Sponsored by Ministry of Environment and Forests, Govt. Of India held at Lucknow University, Lucknow in joint collaboration with Center for Environment Education - North, Lucknow, March 25-26, 1996.
27. **V.P. Sharma** and P.K. Seth. Acute and sub-acute toxicity of polyelectrolyte Nalcolyte-8101, 8103, 8105. Sponsored by M/S Nalco Pvt. Ltd., Mumbai, 1997.
28. **V.P. Sharma**, S. Khanna, R.K.S. Dogra, Ravi Shankar, and P.K. Seth. Acute and sub-acute toxicity of natural polyelectrolyte from Nirmali seeds Natfloc-1001. Sponsored by Girijan Cooperative Corporation Ltd., Vishakhapatnam, May 1997.
29. **V.P. Sharma** and P.K. Seth. Acute and sub-acute toxicity of Magnafloc LT31. Sponsored by M/S Pidilite Industries Ltd., Mumbai, May 1997.
30. **V.P. Sharma** and P.K. Seth. Safety evaluation of Pearl Pet Bottles for packaging and storage of country liquor (II). Sponsored by M/S Pearl Polymers, New Delhi, June 1997.

31. **V.P. Sharma**, B.N. Paul, R.K.S. Dogra, Harish Chandra, R.K. Upreti, Ravi Shankar, and P.K. Seth. Safety evaluation of Glass Fibre Reinforced Plastic Pipes for water transportation sponsored by M/S Carbon Everflow, Nasik, June 1997.
32. **V.P. Sharma** and P.K. Seth. Acute and sub-acute toxicity evaluation of polyelectrolyte Magnafloc LT31. Sponsored by M/S Pidilite Industries Ltd., Mumbai, July 1997.
33. **V.P. Sharma** K. Gopal, and P.K. Seth. A base paper on Water Quality: Monitoring and Kits for National Seminar on Water Quality organized by Rajiv Gandhi National Drinking Water Mission and CSIR, New Delhi, at Vigyan Bhawan, August 7-9, 1997.
34. **V.P. Sharma** and P.K. Seth. Safety evaluation of Glass Fibre Reinforced Plastic Pipes for water transportation. Sponsored by Bureau of Indian Standards, New Delhi and M/S Carbon Everflow, Nasik, November 1997.
35. **V.P. Sharma** and P.K. Seth. Suitability of JIL Polyethylene Terephthalate (PET) bottles for packaging and storage of liquor. Sponsored by M/S Jagjit Industries Ltd., Noida, November 1997.
36. **V.P. Sharma** and P.K. Seth. Country Report. Technologies and facilities for water quality analysis and HRD during Training Workshop on Nutrient Analysis in Water and Wastewater organized by Commonwealth Science Council (CSC) and Queensland Health Scientific Services, Brisbane, Australia, March 10-17, 1997.
37. **V.P. Sharma** R.K.S. Dogra, S. Khanna, B.N. Paul, R.K. Upreti, Ravi Shankar, P.N. Vishwanathan, and P.K. Seth. Safety evaluation of low-density polyethylene pouches for packaging and storage of country liquor. Sponsored by Department of Excise and Prohibition, Patna, Bihar, October 1997.
38. **V.P. Sharma**, Kirti Bajpai, A.B. Pant, Mohd. Junaid and P.K. Seth. Evaluation of cytotoxicity for extracts of plastic biomedical products, presented at 85th Indian Science Congress, Hyderabad, January 3-7, 1998.
39. Mohd. Junaid, A.B. Pant, Kirti Bajpai, **V.P. Sharma**, and P.K. Seth. Safety evaluation of plastic biomedical products: Transfusion Bottles, presented at 85th Indian Science Congress, Hyderabad, January 3-7, 1998.
40. **V.P. Sharma**, K. Gopal, and P.K. Seth. Evaluation of fluoride content in cattle feed. Sponsored by M/S PCDF, January 1998.
41. **V.P. Sharma** and P.K. Seth. Suitability of Alpha Polyethylene Terephthalate (PET) bottles for packaging for alcoholic drinks and Blended Whisky. Sponsored by M/S Alpha Containers Pvt. Ltd., Surat, 1998.
42. R. K. S. Dogra, S. Khanna, **V. P. Sharma**, A.B. Pant, and R. Shanker. Safety evaluation of global migration of contents of some plastic biomedical products. At Annual Conference of Society of Toxicology held at Thirupati. December 22 – 24, 1998.
43. **V.P. Sharma** and P.K. Seth. Suitability of Polyethylene Terephthalate (PET) bottles for packaging and storage of liquor. Sponsored by M/S Reliance Industries Ltd., Mumbai, 1999.
44. **V.P. Sharma** and P.K. Seth. Global migration test on Polyethylene Terephthalate (PET) bottles. Sponsored by M/S Yash Petequip (India) Pvt. Ltd., Bhopal, 1999.
45. **V.P. Sharma** and P.K. Seth. Suitability of Polyethylene Terephthalate (PET) bottles for packaging and storage of alcoholic beverages. Sponsored by M/S Innovative Tech Pack Ltd., New Delhi, 1999.
46. **V.P. Sharma** and P.K. Seth. Acute and sub-acute toxicity of poly-alluminium chloride (ETPAC) for potable water treatment. Sponsored by M/S Swami Enviro Control Pvt. Ltd., Vadodara, 1999.
47. **V.P. Sharma** and P.K. Seth. Acute and sub-acute toxicity of DKSET C-1239L for potable water treatment. Sponsored by M/S Dai Ichi Karkaria Ltd., Pune, 1999.
48. A. B. Pant, **V.P. Sharma**, and P.K. Seth. *In vitro* model for evaluation of plastic biomedical devices for biological hazards. At Annual Conference of Society of Toxicology held at Tamil Nadu. November 6 – 8, 1999.

49. **V.P. Sharma** and P.K. Seth. Safety evaluation of Glass Fibre Reinforced Plastic Pipes for water transportation. Sponsored by Bureau of Indian Standards, New Delhi and M/S Carbon Everflow, Nasik, 2000.
50. **V.P. Sharma** and P.K. Seth. Acute and sub-acute toxicity of Poly-aluminium chloride (PAC). Sponsored by M/S Synergy Chlorinations Pvt. Ltd., Vadodara, 2000.
51. **V.P. Sharma** and P.K. Seth. Acute and sub-acute toxicity of Poly-aluminium chloride (Ecorite PAC 2010). Sponsored by M/S DCM Shriram Consolidated Ltd., New Delhi, 2000.
52. **V.P. Sharma** and Krishna Gopal. Collection and analysis of Biological Toxins during Training Workshop on Monitoring and Analysis of toxic chemicals and biological toxins. May 15-20, 2000.
53. **V.P. Sharma** and P.K. Seth. Acute and sub-acute toxicity of coagulant poly-aluminium chloride: ARYAPAC. Sponsored by M/S Grasim Industries Ltd., Nagda, 2001.
54. **V.P. Sharma** and P.K. Seth. Safety evaluation of Glass Fibre Reinforced Plastic Pipes for water transportation. Sponsored by Naval Standards Technological Laboratory, Visakhapatnam, 2001.
55. **V.P. Sharma** and P.K. Seth. Safety evaluation of Polyethylene Terephthalate (PET) bottles for packaging and storage of liquor. Sponsored by M/S Kesar Enterprises, Bareilly, 2001.
56. **V.P. Sharma** and P.K. Seth. Suitability of Polyethylene Terephthalate (PET) bottles for packaging and storage of liquor. Sponsored by M/S Bharat Distilleries, Mumbai, 2001.
57. A.B. Pant, A.K. Agrawal, **V.P. Sharma**, and P.K. Seth. In vitro cytotoxicity evaluation of plastic biomedical devices. *Human and Experimental Toxicology*, 20 pg. 412-417 (2001).
58. Pratibha Singh, **V.P. Sharma**, P.K. Mathur. Implications on Health due to Fluoride in Water and steps for its Control: A Review; *Indian Journal of Environmental Protection*, Vol. 21 (no. 11), November, 2001.
59. **V.P. Sharma** and P.K. Seth. Acute and sub-acute toxicity of coagulant poly-aluminium chloride. Sponsored by M/S Padarsh Industries Ltd., Mumbai, 2002.
60. **V.P. Sharma** and P.K. Seth. Acute and sub-acute toxicity of coagulant poly-aluminium chloride. Sponsored by M/S Mafatlal Chemical and Dyes Ltd., Mumbai, 2002.
61. **V.P. Sharma**, R.B. Raizada and P.K. Seth. Acute and sub-acute toxicity of coagulant poly-aluminium chloride – ARYA-PAC. Sponsored by M/S Grasim Industries Ltd., Birla Gram, Nagda, May 2002.
62. **V.P. Sharma**, and P.K. Seth. Toxicological evaluation of poly-aluminium chloride PAC-2010. Sponsored by M/S Sriram Vinyl Chemical Industries, New Delhi, March 2002.
63. **V.P. Sharma**, and P.K. Seth. Evaluation of acute oral toxicity of EMDIFLOC FA-118C and EMDIFLOC FA-119C. Sponsored by M/S Ion Exchange, Hyderabad, April 2002.
64. **V.P. Sharma**, and P.K. Seth. Safety evaluation of Polyethylene Terephthalate (PET) bottles for packaging and storage of liquor. Sponsored by M/S ShriPET Industries, Chennai, May 2002.
65. **V.P. Sharma**, and P.K. Seth. Safety evaluation of Polyethylene Terephthalate (PET) bottles for packaging and storage of liquor. Sponsored by M/S Sagar PET Industries, Mumbai, May 2002.
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- A. K. Singh, V.Pandey, **V.P.Sharma**, R.Kumar and A. B. Pant. Leachability and in-vitro cytotoxicity potential assessment of Bisphenol A. Oral Presentation at The 31st Session of The Academy of Environmental Biology, India and National Symposium on Sustainable Development: Environment and Socio- Economic Challenges held at Bundelkhand University, Jhansi, Uttar Pradesh 14th- 16th October, Awarded Gold Medal for Best Oral presentation.
- A.K.Singh, S.Umar and **V.P.Sharma**, Packaged and Natural Drinking Water: Safety, Regulatory Requirements & Monitoring, National Seminar on Environmental Crises – Issues & Challenges 28th – 29th January 2011 held at Netaji Subhash Chandra Bose Govt. Girls P.G. College, Lucknow
- V.Pandey, S.Umar, A.K. Singh and **V.P.Sharma**, Advances From Classical Composites to Nanocomposites: Applications, Synthesis and Modifications In Properties Based On Usage, National symposium on Recent Advances in Chemical Sciences, 7-8th January 2011, Kota, Rajasthan, India
- **V.P.Sharma**, A.K. Singh, V.Agarwal and S.Umar, “Implications of Phthalates and Bisphenol A on Aquatic Environment & Human Health”, IVth World Aqua Congress 8-10th December 2010, New Delhi, India
- **V.P. Sharma**, V. Agarwal, S. Umar, A. K. Singh, “Polymer Composites Sustainability: Environmental Perspective, Future Trends and Minimization of Health”, International Conference on Environmental Science and Development (ICESD-2011), 7-9th January 2011, Mumbai, India
- S.Umar, A.K. Singh, V. Agarwal and **V.P. Sharma**,” Predictive Implications of Global Climatic Changes and Plastic Toxicants on Environment & Health”, (Oral Presentation), National Workshop on Global Climate Change: Perspectives in Health and Biotechnology, 9-11th December 2010, Allahabad, India.

Consultancy [CNP]/ Sponsored [SSP]/Corporate Social Responsibility [CSR] and/ or Grant in Aid [GAP] Projects

No	Sponsor	Type of Work Product Evaluation (PE) Water Quality Surveillance / Training / Awareness (WQM)	Year	Amount (in lakh)
1	Ministry Urban Development, New Delhi	PE – Polymeric and Asbestos Cement Water Storage tanks and pipes	1993	7.50
2	M/S Hind Protective Coatings Ltd.,New Delhi	PE – Fiber reinforced plastic pipes	1991	1.00
3	District Rehabilitation Center, Ministry of Social Welfare New Delhi	PE – Glass fiber reinforced plastic plates <i>Thalli</i> for spastic children	1991	0.30
4	M/S Pearl Polymers Ltd., New Delhi	PE – Pearl PET bottles for packaging of alcoholic drinks	1995	0.50
5	M/S Minakshi Traders, and PHED Bhubaneshwar	PE – acute and sub-acute toxicity evaluation of CATFLOC and INDFLOC- 238	1995	0.50
6	Pradeshik Cooperative Dairy Federation Lucknow and Council of Science and Technology, U.P.	PE – Safety evaluation of low density polyethylene recycled film for packaging of milk	1996	0.40
7	M/S NALCO Chemicals India Ltd.Calcutta	PE – acute and sub acute oral toxicity evaluation of poly electrolyte NALCOLYTE-(8100,8103,8105)	1995	1.95
8	M/s Girjan Cooperative Ltd. Visakhapatnam	PE – acute and sub acute oral toxicity evaluation of Natfloc- a natural poly electrolyte from Nirmali Seeds	1995	1.00
9	M/S Northern Coal Fields Ltd. Sone Bhadra	PE – safety evaluation of water treatment chemicals	1995	0.40
10	Department of Excise and Prohibition, Patna, Bihar	PE - Safety evaluation of low density polyethylene pouches for packaging of country liquor	1994	3.00
11	M/S Thermax Pvt. Ltd., Pune	PE – toxicological (oral) evaluation of Catfloc-T	1997	0.65
12	M/S Pidilite Industries Ltd., Mumbai	PE – evaluation of Magnafloc LT-31 Liquid Grade cationic polyelectrolyte for clarification of potable water	1997	0.65
13	M/S Carbon Everflow, Nasik	PE – glass fiber reinforced plastic pipes for water transportation	1997	1.12
14	M/S Rishabh Metals and Chemicals Pvt. Ltd., Mumbai	PE – acute and subacute toxicity evaluation of Rishilyte	1997	0.75
15	M/S Carbon Everflow, Nasik	PE – glass fiber reinforced plastic pipes for water transportation	1998	1.12
16	M/S Jagjit Industries Ltd. Noida	PE – suitability of JIL PET bottles	1998	1.25
17	M/S Alpha Container Pvt. Ltd., Surat	PE – safety evaluation of Alpha PET bottles for packaging of alcoholic drinks and blended whisky	1998	0.95
18	Department of Excise, Gwalior	PE – safety evaluation of LDPE film for storage of country liquor	1998	1.50
19	CST, UP, Lucknow	WQM	1998	2.80

20	M/S Dai-Ichi Karkaria Ltd., Pune	PE – Acute and sub-acute toxicological evaluation of DK SET C 1239L	1999	1.31
22	M/S Yash Petequip (India) Ltd., Bhopal	PE – Global Migration Test on PET bottles.	1999	0.60
23	RGNDWM, New Delhi	WQM - Training Course at Rohtak and Karnal, Haryana on Water Quality	1999	3.00
24	RGNDWM, New Delhi	WQM - Training Course at Shimla and Palampur, H.P.on Water Quality	2000	3.00
25	M/s Grasim Industries, Nagda	PE – Safety evaluation of water treatment chemicals	2001	1.81
26	M/s Mafatlal Dyes & Chemicals, New Delhi	PE – Acute toxicity of Polyelectrolyte's	2001	1.00
27	M/s Kesar Enterprises	PE – Safety evaluation of PET bottles	2001	1.25
28	M/s Bharat Distillaries, Bareilly	PE – Safety evaluation of PET bottles	2001	1.25
29	Department of Environment and Forests, New Delhi	Assessment of leaching of phthalates, metals and colourants from plastic toys (GAP 82)	2002	6.66
30	U.P. Jal Nigam, Lucknow	WQM- Water Quality Surveillance of 30 districts of U.P.	2002	48.00
31	M/s DSCL, New Delhi	PE – Acute and Subacute toxicity evaluation of PAC	2002	1.95
32	M/s Padarsh Pharmaceuticals Limited, Mumbai	PE – Acute and Subacute toxicity evaluation of Polyaluminium chloride	2002	1.95
33	M/s Sripet Industries, Chennai	PE – Safety evaluation of PET bottles	2002	1.25
34	M/s Sagar Enterprises, Mumbai	PE – Safety evaluation of PET bottles	2002	1.25
35	M/s Shashun Pvt. Ltd., Chennai	PE – Acute oral toxicity of Poly Aluminium Chloride for drinking water application.	2002	0.95
36	M/s Grasim Industries, Nagda	PE – Sub-acute toxicity evaluation of water treatment chemical-ARYAPAC	2002	0.315
37	M/s Thermax Limited, Bhosari, Pune	PE – Acute oral toxicity (LD ₅₀) evaluation of water treatment chemical-MAXFLOC-T	2002	1.00
38	M/s Ondeo Nalco India Ltd, Hooghly	PE – Acute oral toxicity of water treatment chemical – CATFLOC-T/TL/T2	2002	1.04
39	M/s Shashun Chemicals and Drugs Limited, Chennai.	PE – Sub-acute oral toxicity of Poly Aluminium Chloride for drinking water application.	2003	1.00
40	M/s Ondeo Nalco India Ltd, Hooghly	PE – Sub-acute oral toxicity of water treatment chemical – CATFLOC-T/TL/T2	2003	1.00
41	M/s by Chemical and Petrochemicals Manufacturer's Association, New Delhi.	PE – Safety Evaluation of Polypropylene and High Density Polyethylene woven sacks for packaging of food grains	2004	10.50
42	M/s Graphite India Ltd., Nasik and Bureau of Indian Standards, Mumbai.	PE – Suitability Assessment of Glass Fibre Reinforced Plastic pipes for water transportation.	2004	2.43
43	Council of Science and Technology, Lucknow. (UP)	WQM – Safe drinking water and health (Popular lectures/demonstrations in districts of UP)	2004	1.36
44.	M/S Chembond Drewtreat Ltd., Navi Mumbai	PE – Toxicity evaluation of water treatment chemical KEMFIX 40 (CNP-157; SP-53).	2005	2.10
45.	M/S Kanoria Chemicals & Industries Ltd., Lucknow	PE – Toxicity testing of Polyaluminium chloride (KANPAC 10%).(CNP-160: SP-	2005	2.10

		57)		
46.	M/S Amiantit Fiberglass Industries (I) Pvt. Ltd., Panaji, Goa	PE – Suitability assessment of Glass Fibre Reinforced Plastic pipes for water transportation. (CNP-161: SP-54)	2005	2.43
47.	M/s Graphite India Ltd, Nasik and Bureau of Indian Standards	PE – Suitability assessment of Glass Fibre Reinforced Plastic pipes for water transportation (CNP-149: SP-49)	2005	2.43
48.	M/S Indian Institute of Technology, New Delhi	PE – Safety evaluation of new fruit coating material: Terpenoidic polymer material; (CNP-162: SP-56)	2005	1.56
49.	M/S SNF India Pvt. Ltd., Hyderabad	PE – Toxicological evaluation of polyelectrolyte. (CNP-163: SP-59)	2005	4.05
50.	M/S Kanoria Chemicals & Industries Ltd., Lucknow	PE – Toxicological evaluation of water treatment chemical. Polyalluminium chloride 10% (CNP-166: SP-61)	2005	2.14
51.	CSIR Coordinated Project	Animal models and animal substitute technologies <i>in vitro</i> model system for cytotoxicity standardization and validation of <i>in vitro</i> system using L929 cell lines for assessing cytotoxic potential of plastic biomedical devices.	2002 -2007	NA
52.	CSIR Coordinated Project	Pollution Monitoring Mitigation System and Devices: Molecular Beacon type sensors for pathogen detection. (SMM-05)	2005	70.00
53.	M/S East India Pharmaceutical Works Ltd., Kolkata	Toxicological evaluation of amylase obtained from genetically modified <i>Aspergillus oryzae</i> including acute oral toxicity, sub-acute oral toxicity and allergenicity testing. (SSP-137)	2005	4.48
54.	Indian Council of Medical Research and Ministry of Health & Family Welfare, Govt. of India, New Delhi.	Clinical trial with RISUG-regarding Genotoxicity and Mutagenicity studies with RISUG.	2005	8.00
55.	IIRC-CSIR Network Project CMM 0018	Animal model and animal substitute. (Network Coordinated Project continued for next five years)- Standardization and validation of <i>In vitro</i> system using L929 cell lines for assessing cytotoxic potential of plastic bio-medical devices, A.B. Pant, V.P. Sharma , A.K.Agrawal, D.K. Saxena, Alok Dhawan (Network Coordinator)	2007-2012	NA
56.	Societal Mission Mode (SMM)- IIRC Programme	Pollution Monitoring Mitigation systems and Devices – Molecular Beacon type sensors for pathogen detection- Identification and selection of hot spots in and around Kanpur city and collection of water samples according to planned milestones ,R. Shanker, V.P. Sharma , J.R. Behari	2005-2010	NA

57.	Indian Grain Storage, Management & Research Institute, Hapur	Suitability assessment of Polypropylene/ High Density Polyethylene bags for long term storage.(SSP-152)	2006 -2010	32.83
58	M/ S Graphite India Ltd, Nasik	Safety evaluation of Glassfibre reinforced plastic used for water transportation (CNP-189; SP-79)	2007 -2008	2.46
62	CSIR-IITR Network Project	Development of transfected neural stem cell lines to study the cellular and molecular targets for chemical induced neurotoxicity and neurodegeneration and neuroprotection.(CMM-02)	2007 -2012	28.00
63	CSIR-IITR Network Project	Supra Institutional Project of systemic toxicology and risk assesment	2007 -2012	NA
64	CSIR-IITR Network project	Water Quality Training on Monitoring and Awareness under coordinated Project through RRL Bhopal	2007 -2012	NA
65	Chembond DREWtreat Ltd., Navi Mumbai	Safety evaluation of polyelectrolyte (KEMFLOC-305M, SSP-170)	2007 -2008	2.19
66	Environmental Contaminants- New Screening Technology and Effects on Human Health.	Screening of Heavy Metals, Stabilizers and Colourants with Particular Relevance to Plastic Packaging Products (NWP-17)	2007 -2012	27.00
67	CSIR-IITR Network Project NWP-0034.	Validation of Identified Screening Models and Development of New Alternative Models for Evaluation of New Drug Entities.	2007 -2012	-
68	M/S Ciba Specialty Chemicals (India) Ltd., Mumbai	Toxicological evaluation of polyelectrolyte Magnafloc LT610, Magnafloc LT27 (SSP-177/SP 88)	2008 -2009	3.89
69	National Council and Educational Research and Training (NCERT), New Delhi	Suitability Assessment of Foam Material for Usage in the production of Toy kit Using Ethylene Vinyl Acetate (EVA) Material (SSP-179/SP-90)	2008 -2009	2.41
70	Amiantit Fibre Glass Industries India Pvt. Ltd. Bicholin, Goa	Suitability Assessment of GRP pipes for Transportation of Potable Water (SSP-180/SP-89)	2008- 2009	2.52
71	Department of operative Dentistry, Faculty of Dental Sciences, CSM Medical University, UP, Lucknow	Comparative Evaluation of Fluoride Release and Recharging Ability of Glass ionomers under different temperature conditions	2008	NA
72	IITR (CSIR) Network Project under Supra Institutional Project- Investigative Toxicology: New Paradigms (SIP-8/S23) .	Studies to Understand Developmental Neurotoxicity of Pesticides.	2007 -2012	5.00
73	Collaborative Project of CPCB, New Delhi & IITR,Lko	Impact of Plastic Waste disposal on Soil and Water Quality at Lucknow Dump Sites	2008 -2009	17.88
74	IITR (CSIR) Lucknow and Indian Council of Medical Research	Anodized Polytetrafluoroethylene Coated Cookwares- Usage trends in Indian Scenario, suitability and Toxicological implications (SSP-222)	2010 -2012	8.86

75	IITR (CSIR) Lucknow and Indian Council of Medical Research	Assessment of Bisphenol-A Stabilizer in Plastic Baby Bottles Leachates and Preventive Measures (GAP230)	2010 - 2013	18.57
76.	M/s Lalit Polymers & Electronics Limited, Pune	Safety Assessment of Glassfibre reinforced plastic(CNP-212)	2010	4.26
77.	M/s Time Technoplast Limited ,Mumbai	Safety Assessment of Glassfibre reinforced plastic (CNP222)	2011	5.13
78.	M/s Graphite India Ltd, Nasik.	Suitability Assessment of GRP for water transportation (CNP232)	2011	5.13
79.	Ground Water Board, Minor Irrigation Department, UP and CSIR-IITR Lucknow	Water quality monitoring of Identified Parks of Lucknow city	2011	2.92
80.	Training course on Water Monitoring at Mohali	Training course on Water Quality (SSP-244)	2011	2.78
81.	Suitability Assessment of Glass fibers reinforce plastic pipes for water transportation- Testing of GRP pipes for portability as per IS-12709:1994	Suitability Assessment of Glass fibers reinforce plastic pipes for water transportation(CNP-222)	M/S Time Technoplast Limited, Andheri, Mumbai	2011-12 [5.13 lakh]
82.	Suitability Assessment of Glass fibers reinforce plastic pipes for water transportation- Testing of GRP pipes for portability as per IS-12709:1994	Suitability Assessment of Glass fibres reinforced plastic pipes for water transportation(SP-116/CNP232)	Graphite India Ltd., Nasik	2011-12 [5.13 lakh]
83.	Plastic coded sample Analysis for DOE and CIPET,Chennai under Corporate Social Responsibility[CSR]*Initiative of CSIR-IITR.Lucknow	Suitability assessment of degradable polymers	CIPET, Chennai & Ministry of Environment and Forest	2011 NA
84.	Pilot study on Plastic coated cookware's of ICMR	Anodized Polytetrafluoroethylene Coated Cookware's-Usage trends in Indian Scenario, suitability and Toxicological implications (SSP-222)	Indian Council of Medical Research, New Delhi	2010-12 [8.08,756 lakh]
85.	Suitability assurance of Plastic Baby Feeding Bottles	Assessment of Bisphenol-A [BPA]Stabilizer in Plastic Baby Bottles Leachates and Preventive Measures (GAP 230)	Dept. of Environment & Forest	2010-13 [18.57 lakh]
86.	Ground Water Analysis under UP High Court Directions to CGWB/IITR/Dept of Irrigation	Water Quality monitoring of Identified Parks of Lucknow city –Sampling & analysis of ground water of identified locations of recharge parks in area of Gomti Nagar & Indira Nagar, Lucknow	Ground water Board, Minor Irrigation	8 th June-7 th Dec.2011 [2.92,925]

		(SSP-239).	Department, UP & CSIR-IITR.Lucknow	
87.	Training on Water Quality under HRD programme of RGNDWM.	Training Course on Water Quality Monitoring at Chandigarh/ SAS Nagar-Training for chemists of Dept. of Water Supply & Sanitation working in districts/sub districts of Punjab (SSP 244).	Public Health Engineering, CCDU Department, Chandigarh/SAS Nagar, Punjab	2011-12 [3,06,600]
88.	Supreme Court, Govt of India directed study for Water and Soil Analysis of Union Carbide, Bhopal to CPCB/CSIR-IITR.Lucknow	Analysis of soil and ground water samples in the premises of UCIL at Bhopal (SSP-246)	CPCB, New Delhi	2011-13 [31,47,962]
89.	Invitro Studies of Samples: Cytotoxicity of SMC	Cytotoxicity test of SMC samples (SSP-247)	Smartugye Project Pvt.Ltd., Mumbai	March 2012- June 2012 [82,725]
90.	Cytotoxicity studies- SSP-0207	Cytotoxicity Assay in Natural Baby wash and baby shampoo	Suntara Cosmetics Pvt.Ltd., Tambaram, Chennai	April 2009- June 2010 [1,68,540]
91.	Safety Evaluation/ Toxicological studies	Safety Evaluation of Herbal formulations (Evaluator of the project report SSP-234)	National Innovation Foundation, Ahmedabad	2011-12 [29,25,656]
92	Effects of Xenoestrogen Bisphenol A on the neural Stem Cell proliferation, migration and differentiation (Neurogenesis) Cellular and molecular Mechanism [R.Chaturvedi and V.P.Sharma]	Grant in aid project on BPA [80/2/2009-BMS]	ICMR, New Delhi	[2011-14] 22,52,400/-
93.	Mass Dissemination Activities for the Promotion of Environmental Awareness on Plastic and Water in Some Identified Cities of Uttar Pradesh	Under Other Awareness Programmes of Ministry of Environment & Forests (MOEF), New Delhi & Centre for Environment Education (CEE), Ahmedabad	MOEF	1.02 Crore
94.	INDEPTH PROJECT-Studies on the development of methods	INDEPTH Project of CSIR-IITR, Lucknow	CSIR	2012-17 NA

	for simultaneous determination of pesticide and phthalate residues in food commodities/ water and the synergistic bio implications of these toxicants			
95.	Toxicity studies on Neem products – Phase II	Grant – in – Aid	Ministry of Chemicals and Fertilizers, Govt. of India, New Delhi	Co- Investigator
96.	Water Quality Monitoring of Identified Parks of Lucknow city-Sampling and analysis of ground water of identified locations of recharge parks in area of Gomti Nagar and Indira Nagar	Ground Water Board, Minor Irrigation Department, UP and CSIR-IITR, Lucknow [SSP-237]	Ground Water Board and CSIR-IITR	2011-12

*CSR = Work undertaken by CSIR-IITR under Corporate Social Responsibility & Charges waived off for Ministry of Environment & Forest/CIPET, Chennai for the Task force on Degradable Polymers.

FACULTY / RESOURCE PERSON

(ON ENVIRONMENTAL ISSUES / WATER QUALITY / PLASTIC AND POLYMERIC PRODUCTS / TOXICOLOGY)

- Lal Bahadur Shastri Institute of Environmental Management, Kursi Road, Lucknow.
- U.P. Planning Institute, Kala Kakkar House, TG Civil Lines, Lucknow.
- U.P. Secretariat (HRD Cell), Jawahar Bhawan, Lucknow.
- P.G. Degree/Diploma in Environmental Science, Department of Botany, University of Lucknow, Lucknow.
- P.G. Diploma Course in Environmental law, Faculty of Law, University of Lucknow, Lucknow.
- P.G. Diploma in Human Resource Management (HRM) & Occupational Health, Department of Social Work, University of Lucknow, Lucknow.
- UNICEF, Delhi.
- Regional Science Centre, National council of Museums, Lucknow.
- Science for Children MACFAIR, City Montessori School, Lucknow.
- Training Course on Risk Assessment and Management: Safety Evaluation of Plastics and polymers, under World Bank Program, Ministry of Environment and Forests, Govt. of India. June 5-25, 1993.
- Training Course on Water Quality Monitoring Hydrology Project: Importance and Precautions during Water Sample Collection, Transportation and Monitoring, HRD cell ITRC, Lucknow. 6-8 November 1999.

- Institute for Integrated Society Development, Khuram Nagar Lucknow – Popular Science Lecture Series for students, February 2002.
- Exonera Innovators Club, Lucknow
- UP State Planning and Training Institute, Kala Kakkar Bhawan Lucknow.
- State Institute of Rural Development, BKT Campus, Govt of UP, Lucknow
- Geological Survey of India, Regional Training Institute, Government of India, Lucknow
- UP Judiciary Training Centre Lucknow.
- Centre for Environment Education (North).
- Guest faculty at University of Lucknow, Department of Human Resource Management on Environmental Issues of general interest and occupational hazards.
- Indo – US Workshop on Children’s Environmental Health at Goa Sponsored by US Embassy, India and ICMR, New Delhi, Govt. of India. 3 – 6 April 2005.
- Persistent Organic Pollutants: Emerging Areas, Challenges and Strategies, presented as a resource person under IPEN Programme, National Hub at India International Centre under sponsorship of Toxics Links, GEF, UNIDO and UNEP, at New Delhi. 17-19 November 2005.
- Affiliate Member of International Union of Pure and applied Chemists through INSA- New Delhi, November 2006.
- Participated in Scientific and Technical Writing Programme “Vaigyanic Aur Tacniqui Sabdawali Aayog” organized by Ministry of Human Resource Development, New Delhi, India ,Sep 10, 2006.
- Selected as Member of the Alert Group of CHD-8 Committee on Chemical Hazards by Bureau of Indian Standards during meeting at National Safety Council, Belapur, Mumbai, February 2007.
- Organized at CMS Lucknow, India in Geofest International and National Geography Olympiad (November 3-6, 2007)
- Organized National Seminar on Recent Advances in Analytical Sciences and Applications.-2007 at Himachal Pradesh University, Shimla, India during April 9-11, 2007.
- Training programme on “Analysis of Toxic Metals in Environmental Samples” Sponsored by Central Pollution Control Board, Delhi, held at Indian Institute of Toxicology Research, Lucknow (August 11-13, 2008).
- International Symposium on Environmental Pollution, Ecology and Human Health [ISEPEHH-2009), organized at S V University, Tirupati during July 25 – 27, 2009
- Advisory Member, Regional Science City [National Council of Museums], Lucknow.
- Deputed Member Science Expo 2008, 2009, 2010,2011, 2012 on behalf of CSIR-IITR.
- Member of the Joint FAO/WHO Expert committee on Food Additives and Contaminants Roaster panel (2007-12)
- Role of Intellectual Property Rights in Business Perspectives at Council of Science & Technology, 23rd May 2011.
 - Resource person for screening and Examiner of Amity University, Lucknow (2005- till date)
 - Guest Faculty/ Examiner of Bundelkhand University, Jhansi (2005-till date).
 - Board of Studies Member and Examiner for Integral University, Lucknow (2008- till date)
 - Board of Studies Member and Examiner for Babu Banarsi Das University, Lucknow (2011- till date)

- Participation in Academy of Council of Scientific & Industrial Research [AcSIR] activities at CSIR-IITR, Lucknow- Coordinated the course code No 103 and delivered the lecture (s) in different courses as required viz Course Code 501,601 and CSIR-800
- Delivered Invited Lectures for UP State Planning and Training Institute, Lucknow
- Rendered expertise and represented IITR during Science Expo 2012 at RSCL, Lucknow
- Local Advisory Committee [LAC] Member of National Council of Museums. Delhi
- Executive Membership of Society of Earth Scientists.
- CSIR 800- Coordinated the programme under AcSIR and CSIR Mission programme.
- Technical Expert for Committees of Bureau Of Indian Standards- BIS-PCD 12; BIS-PCD 21 and CHD 8
- Quality Management System implementation as per ISO17025:2005 and ISO 9000:2008 in different organizations as per need.
- International Conference on Advanced Polymeric Materials & Innovations APMI 2013 organized by Ministry of Chemicals & Petrochemicals, Govt of India, CIPET, CSIR and other Institutions viz, Ministry Of Defence, PlastIndia, 1-3rd March 2013.
- National Seminar on Stress, Development and Adaptation : Biochemical Basis and Biotechnological Approaches at Department Of Biochemistry, University Of Lucknow, March 15th ,2013

DOCTORAL STUDENTS (Supervised/Co-guide for PhD/MDS)

- Kartikeya Shukla
Evaluation of effects of Leachates of Virgin and Recycled Plastic Products on Neurobehavioral and Physiological Responses. Doctor of Philosophy in Environmental Science, Department of Botany, University of Lucknow, 2009 (Joint supervision of **V P Sharma** and Dinesh Kumar)
- Abhinav Srivastava
Studies of Water Purification Techniques Using Low Cost Absorbents. Doctor of Philosophy in Chemistry, Department of Chemistry, University of Lucknow, 2008 (Joint supervision of **V P Sharma** and P K Mathur)
- Sweta Verma
Comparative Evaluation of Fluoride Release and Recharging Ability of Glass Ionomers under Different Temperature Conditions- An *In-vitro* Study. Degree of Master of Dental Surgery, Department of Operative Dentistry, Faculty of Dental Sciences, CSM Medical University, Lucknow. 2009
- Neeraj Kumar
Radiofrequency Electromagnetic Radiation through Wireless Communication Devices/Mobile phone: Health and Environmental Perspective, Doctor of Philosophy in Information Technology, Department of Information Technology, Babasaheb Bhimrao Ambedkar University 2011 (A Central Govt., University), Lucknow, (Joint supervision of **Dr. V P Sharma** and Dr. Raees A Khan)

- Ms. Vartika Agarwal
Comparative Evaluation of Nonstick Cookware's and Toxicological Implications, Doctor of Philosophy in Environmental Science. Department of Botany, Institute of Environmental Science, University of Lucknow 2011 ((Joint supervision of **Dr. V P Sharma** and Dr. Gauri Saxena)

- Ms. Rupali Gautam

Evaluation of leaching of substances from different denture based materials in human saliva Department of Prosthodontics, Faculty of Dental Sciences, University of Chattrapati Shahuji Maharaj University (KGMU), Lucknow 2011 (Joint Supervision **Dr.V.P.Sharma**, Dr Ramashanker , Dr Pooran Chand Dr Balendra Pratap Singh & Dr R.D.Singh)

- Sanjay Singh

Leaching of additives from plastic container at University of Lucknow (joint supervision of P.K.Mathur and V.P.Sharma)

EXPERTISE OFFERED FOR CREATION OF TRAINED HUMAN RESOURCE MANPOWER IN THE AREA OF PLASTIC

- D.P. Mazumdar, Department of Dental Sciences. Assessment of dissolution pattern of Gutta Percha used in dentistry.
- Mr. Sunil Agrawal, M.Sc. student, Department of Environmental Science, Mathura. Safety evaluation of plastic finished products.
- Ms. Gunjan Bhargava, Faculty of Dental Sciences, KGMC, Lucknow.(2000). Assessment of micro-leakage in different root end filling materials using fluid filtration technique.
- Mr. Anuj Roy, BE, Chemical Engineering Department, Trichurapalli. Safety evaluation of plastic finished products and their combustibility.
- Mr. Jitendra Rao, BDS, Dental College, KGMC, Lucknow.
- Ms. Tapasaya, BDS, Dental College, KGMC, Lucknow.
- Ms. Sudha Rani, Department of Environmental Science, University of Lucknow, Lucknow. On Influence of simulated environmental conditions on leaching of chemical additives from plastic finish products.
- Ms. Manu Seth, Department of Nutrition Isabella Thoburn College, University of Lucknow, Lucknow Project Title Evaluation and Survey of Artificial Colourants Vis-à-vis Toxic Metals Used in selected Food Stuffs: Nature and Usage Pattern.
- Ms. Neha Mohan, Department of Nutrition Isabella Thoburn College, University of Lucknow, Lucknow Project Title Suitability Evaluation of Representative Plastic Bottles for Packaging of Water.
- Delivered lecture on Environmental Management at State Planning Institute, Kala Kakkar House Lucknow.
- Provided training to Mr. Ripunjai Upadhyay, M.Sc. Department of Biomedical Sciences, Bundelkhand University, Jhansi on Environmental pollution with particular relevance to plastics and biomedical wastes: a legal perspective. 2005
- Provided training to Ms. Archana, M.Sc. Dept of Biochemistry, Science College, Patna University, Patna on safety measures for occupational workers in plastic industry and studies on the effect of the repeated cadmium exposure: biochemical neurobehavioural and neurochemical parameters.

- Provided training to Ms. Smriti Mishra, M.Sc. Department of Environmental Sciences, Allahabad University, Allahabad on Suitability assessment and usage pattern of plastic Baby Feeding Bottles..
- External Examiner for M.Tech (Plastic Engineering) of Central Institute of Plastic Engineering and Technology, Lucknow. October 2005.
- Provided training to Ms. Priyanka Sharma, M.Sc. Department of Biochemistry, DAV College, CSJM University, Kanpur on Toxicological evaluation of specific plastic and polymeric consumer products involving invitro and invivo techniques. 2005
- Provided training to Mr. Abhinav Shankar, M.Sc. Department of Biochemistry, Bundelkhand University, Jhansi on Leacheability of constituents from Plastic items and estimation of unreacted styrene from Glassfibre Reinforce Plastics. 2006
- Provided training to Ms. Vandana Katiyar, M.Sc. Department of Environmental Science, institute of Bioscience & Biotechnology, CSJM University, Kanpur on Plastic industries: challenges & future and Biomedical Plastic waste Management. 2006
- Provided training to Mr Alok Sharma, M.Sc. Department of Biotechnology, Bundelkhand University, Jhansi on Biodegradable Polymers. 2007
- Provided training to Mr Manoj Sharma, M.Sc. Department of Biotechnology, Bundelkhand University, Jhansi on Biomedical Plastic waste: Health Implications and Challenges. 2007
- Provided training to Mr Pushpendra Singh, M.Tech. Department of Biotechnology, GB pant Engineering College, Uttarakhand Technical University, Uttarakhand, on Biodegradable Polymers: Development, Stretgies, Guidelines and Future. 2008
- Provided training to Ms Anamika Sharma, M. Sc. Department of Biochemistry, BIMR College of Life Sciences, Jiwaji University, Gwalior on Plastic and Polymers: Changing Scenario, Challenges and Opportunities. 2008
- Provided training to Ms Shilpi Tripathi, M. Sc. Department of Biotechnology & Allied Sciences, Allahabad Agricultural Institute-Deemed University, Allahabad on Plastic & Polymers: Safety Assessment, Innovations with Particular Relevance to Challenges in Modern Scenario. 2008
- Panel member for the Selection Committee of Regional Science City, Lucknow, National Council of Science Museums, Govt. of India, 17 June, 2008.
- Delivered training on Project planning and Environmental Management- Environmental Pollution at Training Division, State Planning Institute, Kalakakkar House, Lucknow, UP, 17 June, 2008.
- Expert during workshop on Communication in Scientific Writing organized in collaboration of Department of Science and Technology, Delhi and Council of Science and Technology, Uttar Pradesh and Birbal Sahni Palio Botany, 26-30 June, 2008.
- External Examiner for conducting examination of M.Sc. Biomedical Sciences, Bundelkhand University, Jhansi, 19 July, 2008 and 2009
- Delivered invited lecture during Project Identification, Formulation and Appraisal at Training Division, State Planning Institute, Kalakakkar House, Lucknow, UP, 2 September, 2008.
- Science Expo at Regional Science City, Lucknow organized by National Council of Museums Govt. of India in collaboration of Scientific Institutions of Lucknow 2008-2012.
- Indian Climate Champion and Member of International Expedition on Climate Change organized by British Council of India and Seth M R Jaipuria School Lucknow, 15 Oct 2008.
- National Children Science Congress 2008 at Sagar Institute of Technology and Management, Rasouli, Barabanki, in collaboration of Rastriya Vigyan avam Pradyogiki Parisad-Department of Science and Technology, New Delhi, 8 Nov, 2008.

- Faculty during Training Course on National Resources & Their conservation at State Planning Institute, UP May 9-13th, 2011.
- National Seminar on Challenges of the universities in the Knowledge Society organized by Indian Institute of Information Technology, Allahabad, NASI, INSA and RSCL, Lucknow July 4th, 2011.
- Water Elixir of life programme at Regional Science City June 4th, 2011.
- Provided training to Shikha Singh, Prakhar Bisht, Sakshi Kapoor, Shilpi Singh, (2010-2011)
- Provided training to Apurva Sharma, Pooja Dixit, Pooja Nagar, Chandni Tandon, Apoorva Bhatnagar and Saroj Yadav (2012-13)

CONFERENCES AND TRAINING COURSES ORGANISED / COORDINATED

1. Seminar on Pollution, Poverty, and Population, sponsored from Council of Science and Technology, Lucknow, Govt. of U.P., October 6, 1991.
2. Workshop on Water Quality, at Madan Mohan Engineering College, Gorakhpur (India). April 27-30 1991.
3. Hand-on workshop on Water Quality Assessment and Technology Acquaintance at ITRC, Lucknow, Ministry of Rural Development and Employment, Govt. of India. March 10-12, 1992.
4. Training course on Fluorosis, at ITRC, Lucknow, in collaboration of Rajiv Gandhi National Drinking Water Mission, New Delhi, May 27, 1992.
5. First National Meeting on Pesticide Residues in India, conducted under Chemical Research and Environmental Needs (CREN) and Common Wealth Science Council programme, August 1992.
6. Training Workshop on Pesticide Residues conducted under Chemical Research and Environmental Needs (CREN) and Common Wealth Science Council programme, at ITRC, Lucknow, October 3-7, 1993.
7. Training course on Control of Fluorosis in collaboration of, ITRC and CST, Govt. of U.P., Lucknow. February 3-5, 1994
8. Training course on Water Quality Analysis sponsored from CST, Govt. of U.P., Lucknow. March 16, 1994.
9. Training course on Water Quality Analysis in collaboration of ITRC, Lucknow and Remote Sensing Application Center, Lucknow, April 25-29, 1994
10. Indo-German Workshop on In-vitro Toxicology in collaboration of GSF Forschungszentrum für Umwelt und Gesundheit Germany and Council of Scientific and Industrial Research, India. November 7-9, 1994.
11. Training course on Water Quality and Fluorosis at Ambala, in collaboration of Public Engineering Department (PWD), Haryana, RGNDWM-Delhi, & ITRC, Lucknow from March 6-10, 1995.
12. Training course on Water Quality Surveillance and Technology, in collaboration of U.P. Pollution Control Board and ITRC- Lucknow, 1996.
13. Seminar on Impact of Pesticides on Environment and Human Health in collaboration of Academy of Environmental Biology and Industrial Toxicology Research Centre, Lucknow. June 10-11, 1996.
14. Symposium on Environmental Impact Assessment for Sustainable Development in collaboration of the Academy of Environmental Biology and ITRC, Lucknow. December 21, 1997.
15. Workshop on Water Quality Monitoring Kits: Draft Base Paper preparation, in collaboration of CSIR – RGNDWM – ITRC at Science Centre, New Delhi. May 1998.
16. Workshop on Water Quality Field Test Kits for Arsenic, Fluoride and Nitrate, in collaboration of RGNDWM, Delhi and ITRC, Lucknow. September 8-9, 1999

17. Training Course on Water Analysis kit. in collaboration of Council of Science and Technology, U.P. and ITRC, Lucknow, December 16-17, 1999.
18. Training workshop on "Monitoring and Analysis of toxic Chemicals and Biological Toxins in Food and Water, May 15-20, 2000.
19. Indo-German Workshop on Prediction and Prevention of Impact of Chemicals on Environment and Human Health in collaboration of RWTH, University of Technology, Aachen, Germany and Council of Scientific and Industrial Research, India, at ITRC, Lucknow, November 5-7, 2001.
20. Training to teachers under World Wide Fund for Nature – India on Plastics Usage at National Botanical Research Institute in collaboration of Exxonora, August 2, 2002.
21. Vth Zonal Workshop on Laboratory Animal Science and Welfare in collaboration of Committee for the Purpose of Control and Supervision of Experiments on Animals (CPCSEA) and Industrial Toxicology Research Centre, July 18 – 19, 2002.
22. Science exhibition "Spectrum 2002" at Hindustan Aeronautics Limited, Lucknow. August 10 – 11, 2002.
23. MACFAIR International 2002 Held at City Montessori School, Lucknow, August 15 – 18, 2002.
24. Training course on Water Quality Monitoring at Chandigarh, in collaboration of Public Works Department (Public Health), Punjab, RGNDWM-Delhi, & ITRC, Lucknow from July 22 – 26, 2002 and August 26 – 29, 2002.
25. Training course on Water Quality Analysis to Irrigation and Public Health Engineers of Himachal Pradesh (2 courses) at Himachal Institute of Public Administration, sponsored by IPH–RGNDWM–Delhi held in collaboration of Irrigation and Public Health, Himachal Pradesh, & ITRC, Lucknow. October 3–10, 2002.
26. Plastic – Our Friend or Foe, during Promotion of Nature Conservation and Environmental Protection as the Basis for Sustainable and Equitable Development, Teacher's Training Workshop in association with World Wide Fund for Nature. April 26th 2003.
27. Industrial Toxicology and Bioresources for School children At Eco education Division, National Botanical Research Institute Lucknow under vacation training programme in association with Department of Biotechnology, Govt. of India New Delhi, April 28-May 23rd 2003.
28. Consultation Workshop on School Education to support Gangetic Dolphin Conservation at Centre for Environment Education in collaboration of Ministry of Human Resource Development, Govt. of India, New Delhi. September 11-12 2003.
29. Environmental Awareness Programme for School Children: At City Montessori School, Gomti Nagar; St. Francis College; New Radiant School Lucknow. July-October 2003.
30. Safety from Crackers – Health Implications, at Career Convent, Vikas Nagar, Lucknow in collaboration of Institute for Integrated Society Development, UP Police and ITRC (CSIR). October 2003.
31. Safe Diwali – status awareness at Horner College, Mahanagar, Lucknow. October 9th 2003.
32. Safe Milk Safe Packaging – during state level workshop organized by Pradeshik Cooperative Federation, Lucknow. October 2003.
33. Aar Milkar Sawaren Hum Prithvi Ke Rang at Regional Science Centre Aliganj in collaboration of Prithvi Innovations and Indian Institute of Management, Lucknow. October 21st 2003.
34. Workshop on Dual Degree Course on Polymer Science and Management at Indian Institute of Technology, Rorkee, Saharanpur Campus Dt. Nov.11-12, 2003.
35. Save Ganga Movement from Varanasi to Ganga Sagar (IInd Phase) in Collaboration of Patna University, Patna, National Women Organization Pune, & ITRC (CSIR), Nov. 23-25, 2003.
36. Demonstration and Deliberation on Plastics usage and ITRC Technologies for masses at Central Academy, Lucknow, Dec.21-22, 2003.

37. 11th National Children Science Congress with focal theme food systems: Towards Nutrition for All. at City Montessori Degree College Lucknow in association with Department of Science and Technology, New Delhi, 27-31 December 2003.
38. Biomedical Waste management At Sanjay Gandhi Post Graduate Institute of Medical Sciences in collaboration with Centre for Environment Education and Ministry of Environment and Forest, Govt. of India, New Delhi, Feb. 10-11, 2004.
39. Plastic Packaging: Status, Challenges and the future during the Indian Food Expo-2004 organized in collaboration of All India Food Manufacturer Association and Confederation of Indian Industries
40. Panel expert on Rain Water Harvesting – How to make it a public movement, organized by UP Ground Water Officers' Association at NBRI Lucknow. 10 June 2004.
41. Scientific Awareness Programme, Exposition & Health Camp at Community Health Centre, Chinhat, Lucknow in collaboration with DGHS, CSIR Laboratories and SGPGI, Lucknow. 14 – 15 June 2004.
42. Tips on Report Writing during symposium on Communication Skills held at ITRC Lucknow under sponsorship of ICMR & CSIR, New Delhi. 24 – 26 July 2004.
43. Use of plastic. Special deliberation organized by Mahanagar Boy's Inter College, Lucknow. 24 July 2004
44. Training Workshop on Research Methodology & Statistical Methods in Biomedical Research (RMSMBR-2004) at Industrial Toxicology Research Centre, Lucknow. July 26 –28, 2004.
45. Member of jury for Science Model display during 6th MACFAIR International organized by City Montessori School, Lucknow. 21-25 August 2004.
46. Participated in seminar on 'Thermo NICOLET FTIR' organized by Micro Devices Metrohm Ltd. at Taj Hotel, Lucknow. 21 September 2004.
47. Participated in mass awareness programme at NBRI Lawns on the occasion of CSIR Foundation Day. 25-26 September 2004.
48. **V.P. Sharma** and Kartikeya Shukla. Environmental Management with particular relevance to Water Quality and Human Health during AICTE workshop on Environmental Management and Pollution Control Awareness organized by Institute of Environment and Management, Kursi Road, Lucknow. 18 September, 2004.
49. Save Ganga Programme organized by National Women Organization, Pune at Gandhi Bhawan, New Delhi. 1-3 October, 2004.
50. International Conference on Health, Occupation and Environment in Unorganized Sector – Problems and Road Maps (ICHOE 2004). at ITRC Lucknow. 1-3 November 2004.
51. Anti cracker campaign for School Children. Organized by Institute for Integrated Society Development. 8 November 2004.
52. National Symposium on Safety Assessment of Cosmetics at ITRC Lucknow.. 18-19 November 2004.
53. MICROCON-2004 and 28th Annual Conference of Medical Microbiologists: Continuing Medical Education on Drinking Water at ITRC Lucknow. 25 November 2004.
54. Work shop on Current techniques in genetics toxicology held during 1-15 , December 2004.
55. 12th National Children Science Congress with focal theme food systems: Towards Nutrition for All. at Council of Science and Technology, Lucknow in association with VICAS, Allahabad and Department of Science and Technology, New Delhi, 27-31 December 2004.
56. National Conference on Good Laboratory Practice (GLP), sponsored by National GLP Compliance Monitoring Authority and Department of Science & Technology, Govt. of India at ITRC Lucknow. January 13-15, 2005.

57. 37th Shanti Swarup Bhatnagar Memorial Tournament 2005, 16-20 February 2005.
58. International Science Symposium in Hindi Medium. "Paryavaran, Swasthya, Jai avam Soochna Proudigiki – Nootan Sopan (Himavas 2005). 28 February – 2 March 2005.
59. National seminar on "New Developments in Plastics" at Central Institute of Plastics Engineering & Technology, Lucknow. Sponsored by AICTE. 4 March 2005.
60. Hindi Workshop on Vocabulary – "Vigyan evam Takniki Shabdawali" at Institute of Engineering and Technology, Lucknow sponsored by Commission for Scientific & Technical Terminology, Ministry of HRD, Govt. of India held from 19-20th March 2005.
61. Indo-US collaborative Workshop on Children's Environmental Health under sponsorship of US embassy and Indian Council of Medical Research, Govt. of India, presented a paper on Environment and Health Impact of Phthalates on April 3-6, 2005 held at Goa.
62. Hindi Seminar – "Paryavaran Chetna avam Vaishvik Paridrishya" organized by Paryavaran Chetna. May 25 –26, 2005.
63. National Seminar on Recent Developments in Biomedical Polymers and Their Applications, delivered an oral presentation on Relevance of Toxicological Studies on Biomedical Polymeric Products in Recent Scenario held at Bangalore on May 13 - 14, 2005.
64. Food World- Participation on behalf of ITRC organized by Confederation of Indian Industries (CII), 28th November 05 to 30th November 2005.
65. Seminar on Current Trends in Water and Waste Water Analysis organizing by E. Merck Pvt. Ltd. at Hotel Clark Avadh, delivered an invited talk on Water Challenges in Monitoring for Better Environmental and Health Safety on 22nd February 2006
66. Workshop on Scientific and Technical Terminology in Hindi organized by Commission for Scientific and Technical Terminology, Ministry of Human Resource Development, Govt. of India, 17th May 06 to 19th May 06.
67. Workshop on Conservation of Water and Pollution – Scientific and Technical view organized by Subhash Institute of Software Technology, Kanpur and Vigyan Bharti, 9th September, 06 to 10th September, 06.
68. International Seminar on Toxic Pollutants at Toxic Links, New Delhi on 17th-19th Nov. 06.
68. Workshop on Scientific and Technical Terminology in Hindi, Commission for Scientific and Technical Terminology, Ministry of Human Resource Development, Govt. of India. 17th to 19th May 2006.
69. Guest faculty for Lectures on Environment under UGC Scheme "coaching for Net to SC/ST Students at IMS, New Campus Lucknow University. 1st April to 31st May, 2006
70. Environmental Pollution – Challenges and the Future State Planning Institute, Kalakakkar House, Lucknow. 20th Jun 2006
71. CSIR rural action plan at RRL Bhopal, CSIR New Delhi. 6th-7th July 06
72. Faculty Training and Motivation- Adoption of Schools and Colleges by CSIR labs, Jawahar Navodaya Vidyalaya, Lucknow. ITRC-CSIR, 2nd Aug 2006
73. 7th Macfair International- Member of the Jury Panel for Scientific Exhibits under Live and Let Live. CMS Gomti Nagar Lucknow and Mahanagar Branch, CMS Lucknow. 19th Aug 2006.
74. Workshop on Conservation of Water and Pollution – Scientific and Technical view. Subhash Institute of Software Technology, Kanpur and Vigyan Bharti. 9th to 10th Sep., 2006.
75. Invited lecture on Environmental Pollution and Health Implications at Department of Public Administration, University of Lucknow. Ministry of Urban Development, Lucknow Centre. 14th Sep. 2006

76. Invited Lecture on Environmental Pollution and Human Health under Five day training programme on management of Urban Environment by Regional Centre for urban and Environmental Studies. Ministry of Urban Development, Govt of India. 12th to 16th Sep. 2006.
77. Clean Lucknow: When & How? Kabir Peace Mission & Lucknow Management Association at CMS Gomti Nagar Lucknow. 14th Oct, 2006.
78. Exhibition cum fair on rural technologies of CSIR at Deoghar, Jharkhand. 27th 31st Oct. 2006.
79. Food World- Participation on behalf of ITRC. Confederation of Indian Industries (CII). 7th Nov. 06
80. Bureau of Indian Standards – Meeting of PCD 21. Bureau of Indian Standards & National Safety Council, Mumbai. 8th Nov. 2006.
81. Technology Summit and Technology Platform at hotel Intercontinental New Delhi. FICCI. 6th to 7th Nov, 2006.
82. International Seminar on Toxic Pollutants organized by Toxic Links, New Delhi. 17th to 19th Nov. 2006.
83. Presented paper on “Water Conservation, Disinfections and Monitoring” during the National Symposium on “Water Resources, Conservation & Harvesting” at RRL Bhubaneswar. RRL Bhubaneswar and National Drinking Water Mission. 7th to 8th Dec. 2006.
84. National Seminar on Plastics. CIPET, Lucknow. 27th Dec. 2006.
85. Children Science Congress. Pioneer Montessori School, Ruchikhand, Lucknow. 5th to 7th Dec. 2006.
86. International Update on Basic and Clinical Neuroscience Advances and XXIV Annual Conference of Indian Academy of Neurosciences. IAN and ITRC. 17th to 20th Dec, 2006.
87. Lecture on current trends in Drinking water and waste water analysis, Water Quality Monitoring and Disinfections for Better Quality of Life. E. Merck. 13th Jan. 2007.
88. Training Course in Science Journalism. Regional Science Centre, Indian Science Communication Society and Dept of Science and Tech Govt of India. 13th Jan. 2007.
89. National Seminar on “World Natural Resources And Conservation”. Paryavaran Chetna. 23rd to 24th Jan. 2007.
90. CSIR programme on youth for leadership in science – Demonstration cum lecture on Plastics. ITRC – CSIR. 6th to 7th Feb. 2007.
91. Water pollution and Allied Implications – Invited Lecture under Academic Honors Society, Department of Botany, Lucknow Christian College, Lucknow. Academic Honors Society, Lucknow. 7th Feb. 2007.
92. Bureau of Indian Standards – Meeting of CHD 8. Bureau of Indian Standards & National Safety Council, Mumbai. 23rd Feb. 2007.
93. Asia Pacific Conference on Recycling of Plastics. Indian Plastic Institute, Mumbai. 23rd to 24th Feb. 2007.
94. Meet the Scientist program under National Science Day Celebrations at Regional Science Centre, Lucknow, 28th Feb. 2007
95. Training Workshop on “Waste Management – Concept, Legislative Implications, Status Analysis, Technological interventions and Approach for the future.” at Department of Environment Lucknow March 2007.
96. National Science Day exhibition cum seminar at CIMAP Lucknow, 2007
97. Poster entitled “Estimation of Phthalic Acid Esters in Recycled Plastic Samples and Cytotoxic Potential of their Leachates” at 27th Annual Session of the Academy of Environmental Biology and National Symposium on Biomarkers of Environmental Problems at University of Meerut, Conference Proceedings, 26 – 28 October, 2007

98. Participation in lecture on chromatography and new analytical equipments coordinated by Ms. Waters Pvt Ltd 11 January 2008.
99. Kartikeya Shukla, Neeraj Kumar, Dinesh Kumar and **V. P. Sharma**. “Sustainable Plastic Recycling: A Toxicological Approach” during National Symposium & Plastic and Sustainability Forum 2008 organized by Centre for Quality Management System Jadavpur University in collaboration of Department of Environment – Government of West Bengal, BIS, ICC and ICPE. 6 – 7 February, 2008.
100. Analysis of Toxic metals in Environmental Samples” sponsored by Central Pollution Control Board, Delhi, held at Indian Institute of Toxicology Research, Lucknow (August 11-13, 2008)
101. Member of Jury for Scientific Exhibits during 36th Jawaharlal Nehru K.V.S. National Science Exhibition 2008 at Kendriya Vidyalaya, Lucknow, 22-23 Sept, 2008
102. National Conference on Indoor Air Quality- A new Challenge in India at department of Chemistry, IT College, Lucknow April , 23-24th, 2011
103. Earth Day Celebration by Ministry of Earth Sciences, New Delhi and RSCL, Lucknow 22nd April 2011.
104. Symposium on “Climate Change and Environmental Pollution: Impact on Human Health May 5th, 2012 at RSCL Luck now in collaboration of INSA, Lucknow chapter and NASI, Allahabad.
105. Participated in National Seminar on Emerging Pollutants and Pathogens : Challenges and Risk Reduction organized by Academy of Environmental Biology during 32nd Session of AEB during Sep 20-22nd 2012 at CSIR-IITR, Lucknow.
106. Advisory member and participated in Science Expo 2013 under aegis of National Council of Museums, Govt of India at RSCL, 30th Jan -3rd Feb 2013.
107. Participated in Good Laboratory Practices [GLP] Workshop at CSIR-Indian Institute of Toxicology Research Lucknow on 4th Dec 2012 and STOX 2012; 5th-7thDec, 2012.
108. Participated in Advances in Free Radicals, Redox Signaling and Translational Antioxidant Research organized by Society for Free Radical Research , India (**SFRR-STAR** 2013) at CSIR-Indian Institute Of Toxicology Research, Lucknow 30th Jan -1st Feb 2013.

Technology Transfer

Technology of improved version of CSIR-IITR Water analysis kit was transferred on October 4, 2006 to M/S Bharti waters, Delhi.

Specialized Training obtained/ Contribution in HRD Development

- Training obtained as Lead Auditor for Food Hazard and Critical Care Point (IS 15000/ISO 22000) and Food Management System as per NABL Requirement. The training was attended at National Institute of Training and Standardization at Noida from June 12-16, 2006.
- Lead Auditor Course on Environmental Management System at Hyderabad from October 18-24, 2007.

- CSIR programme on Youth Leadership in Science- Interaction with students and motivation along with demonstrations related to plastics and polymeric products [2002-2013].
- Competence Building of students/ researchers with particular relevance to Plastics and Quality Management System for Biotech Park/ CPCB/CGWB/NBRI/CIPET/ UP Jal Nigam etc.
- Good Laboratory Practices/ Organization for Economic Cooperation and Development [OECD] guidelines adoption for regulatory purposes / Code of Federal Regulations [CFR]/ Indian Standards on Water and Plastics.
- Accreditation of National Accreditation Board for Testing & Calibration of Laboratories [NABL] as per ISO 17025:2005

SOCIETAL MISSION ACTIVITIES/TECHNICAL REPORT ON WATER QUALITY MANAGEMENT ASPECTS

1. Contribution of ITRC to Rajiv Gandhi National Drinking Water Mission (1996-1997).
2. Determination of *E. coli* in the Sodic Land Reclamation Project of U.P.
3. Base papers on water quality monitoring kits surveillance in rural areas, ITRC publication 1998. Water quality monitoring and kits RGNDWM-UNICEF.
4. Base paper on Water Quality Test Kit for Arsenic, Fluoride and Nitrate ITRC, Publication 1999.
5. Contribution of ITRC to Rajiv Gandhi National Drinking Water Mission 1986-98 ITRC, Publication 1988.
6. Water Quality surveillance in the flood affected areas of Gorakhpur and Deoria and to suggest preventing safety measures: ITRC, publication 1998.
7. Mitigation of Drinking Water Quality in the cyclone affected areas of Orissa a CSIR efforts November, 1999.
8. Multimodal pollution monitoring programme, Lucknow (U.P.)
9. Water Quality Monitoring of Allahabad (UP).
10. Water Quality Monitoring of Gorakhpur (UP).
11. Water Quality Monitoring of Jammu (J &K).
12. Water Quality Monitoring of Meerut (UP).
13. Water Quality Surveillance and ITRC Technologies demonstration during Maha Kumbh Mela at Allahabad, January 5 – February 28, 2001.
14. Science and Technology activities highlights: Technologies for the masses during *Swadeshi Mela* organized by Bhartiya Marketing Development, Lucknow in collaboration with Polytechnology Transfer Center (PTC), CSIR and ITRC, Lucknow. March 22-27, 2001.
15. Save Ganga Water under NOW, Pune in collaboration of ITRC (CSIR) and local authorities in the area of Lucknow, Kanpur, Allahabad and Varanasi. November 17-23, 2002.
16. Suitability Assessment of Plastic and Polymeric products under Refresher course in Environmental Studies in association with UGC-Academic Staff College, University of Lucknow, Lucknow. December 18,2002.
17. Delivered invited talk on Plastic: Boon or Bane during Bio Resources and Biodiversity Programme under the sponsorship of Department of Biotechnology at NBRI Lucknow. 17-26 May 2004.
18. Participated in the scientific awareness programme ‘Science for Improved Quality of Life’ at Chinhat Lucknow in collaboration of CDRI Lucknow.

19. Delivered invited lecture on Recent Strategies for Water Treatment during Environment Management and Pollution Control Awareness Programme organized by Institute of Environment & Management at Gomti Nagar, Lucknow. 18 September 2004.
20. Member of jury for the Science Models and delivered lecture on 'Importance of Safe Drinking Water' on the occasion of National Science Day at Regional Science Centre, Lucknow. 28th February 2005
21. Delivered series of lecture on drinking water and human health at twenty schools of Lucknow under year of Scientific Awareness Programme for School Children sponsored by UPCST and NCSTC, DST New Delhi.
22. Participated as member of Jury for National Children Science Congress held at UP Council of Science and Technology and Central Academy, Lucknow. Held during December 2004.
23. Participation in CSIR Network Programme under 10th Five-Year Plan on "Animal model and animal substitute technologies: *in vitro* model system for cytotoxicity, standardization and validation of *in vitro* system for assessment of biomedical devices" (CMM-18). A. B. Pant, P. Sharma and A. K. Agrawal.
24. Participation in CSIR Network Programme under 10th Five-Year Plan on "Pollution Monitoring, Mitigation System and Devices" (SMM -05). Rishi Shanker and V. P. Sharma.
25. Invited to deliver a lecture on Plastic & Polymeric Products For Global Competitiveness In Packing And Health Care during the all India seminar on Frontier Areas of Chemical Engineering: Strategies for Future" held from 18th to 19th March 2006 at the Institute of Engineers (India) UP. State Centre, Lucknow.
26. Participated in the National Consultation on Herbo-Metallic Preparation of Indian System of Medicine, Safety and Quality Standardization held from March 3rd to 4th, 2006 at Indian National Science Academy (INSA), New Delhi in collaboration of Shri Ram Institute for Industrial Research, Delhi and DST, New Delhi.
27. Dr. V.P. Sharma and Dr. P. K. Seth, CEO Biotech Park and Former Director- ITRC presented a paper Biomedical Application of Plastic and Concerns during the symposium on Biomedical and Natural Materials and 17th Annual meeting of Materials Research Society of India (MRSI) from 13th to 15th February 2006 at Lucknow.
28. Delivered a lecture on Packaging & Human Health during workshop on Role of R & D Organizations for Consumer Protection at NBRI on 14th February 2006 organized in collaboration of Bharat Jyoti Sansathan, Lucknow and National Botanical Research Institute, Lucknow.
29. Delivered a lecture on Water Contaminants and disinfections technologies during the National Seminar on Fish and the Aquatic Environment held at BSNV Degree College, Lucknow organized by Academy of Environmental Biology on 14th January 2006.
30. Participated in "Vaigyanic Aur Tacniqui Shabdawali Aayog" Ministry of Human Resource Development. New Delhi, India (Sep 10, 2006)
31. Delivered invited lecture on Environmental Pollution, Industrialization and Population for the UP. Govt. Officials on 17th December 2005 at Training Centre, U.P. State Secretariat, Lucknow.
32. Participated in the International Conference on Toxicology, Environmental and Occupational Health (ICTEOH 2005) from 14th to 17th November 2005 and presented a paper entitled Toxicological evaluation of PP and HDPE Woven sacks for storage of food grains.
33. Invited as resource person to participation in the South Asia Regional Capacity Building Workshop on Persistent Organic Pollutant organized by Toxic Link, India by South Asia Regional Hub International under Persistent Organic Pollutants (POPs).
34. Elimination Project (IPEP) Network from 17th to 19th November 2005 at New Delhi.
35. Invited talk on Adverse Impact of Dirty Dozen - Persistent Organic Pollutants (POPs): Challenges and Strategies, during South Asia Regional Capacity Building Workshop on

Persistent Organic Pollutants (POPs), sponsored by Toxic Links at India International Centre, New Delhi. 17-19 November 2005.

36. Participated in Food World 2005 organized from 28th to 30th November 2005 by the Federation of Indian Chamber of Commerce and Industry (FICCI) at New Delhi.
37. Delivered an invited Environmental Awareness Lecture on Plastic Water Interface in Packaging on 30th September 2005 at Isabella Thoburn College, Lucknow.
38. Invited Lecture on Environmental Pollution and Human Health under Five day training programme on management of Urban Environment by Regional Centre for urban and Environmental Studies, Ministry of Urban Development, Govt of India on 12th –16th Sep. 2006.
39. Clean Lucknow: When & How?, Kabir Peace Mission & Lucknow Management Association at CMS Gomti Nagar Lucknow on 14th Oct 2006
40. Exhibition cum fair on rural technologies of CSIR at Deoghar, Jharkhand, CSIR on 27th –31st Oct. 2006.
41. Food World- Participation on behalf of ITRC, Confederation of Indian Industries (CII) on 7th Nov. 2006.
42. Delivered a lecture on Environmental Pollution with particular relevance to Water Contamination, Remediation and Health implications at State Planning Commission on 1st May, 2007.
43. Participated in International Symposium on Environmental Pollution, Ecology and Human Health (ISEPEHH-2009), organized at S V University, Triupati (July 25-27, 2009).
44. Participated as a invited speaker in National Conference on Advanced Polymers, Fibers & Fabrics [APF²]and delivered lecture on Quality Assurance and Strategies for Monitoring: Pesticides and Phthalates. Pp. 172, April 2011
45. Quality Management for improvement of Natural Resources and monitoring under Project planning & management training program organized by UP Government Planning Institute, 17-21 October 2011
46. Delivered invited lecture on Integrated approach for Solid Waste Management, Recycling & Monitoring during International Society of Waste Management Conference held at Centre for Quality Management System, Jadavpur University, Kolkata during 9-11 November 2011.
47. Participated in ICFOST/ AFST Conference held at Pune, 20- 21 January 2012

PUBLIC AWARENESS PROGRAMMES

1. Lucknow, U.P. January 2-5, 1990
2. Nainital (Uttaranchal) July 20-26, 1990
3. Jammu, J&K May 20-29, 1991
4. Gorakhpur, U.P. April 27-30, 1991
5. ITRC, Lucknow, U.P. May 27, 1992
6. Midnapore, W.B. March 24-28, 1992
7. Coimbatore, T.N. September 14-18, 1992
8. UP Jal Nigam, Lucknow September 22-26, 1992
9. Training on the Water Testing Kit Patna in collaboration with India Institute of communication and Human Relations May 25-29, 1993
10. Bakkas, Lucknow, U.P. July, 1993
11. Deosingh Khara, Lucknow June 5, 1994 – February 28, 1995

12. Sivdaspur, Jaipur January 18, 1996
13. Gorakhpur (in 8 blocks) October, 1998
14. CSIR Drinking Water Mission Activities for Super Cyclone Affected people of Orisa, under CSIR coordinated programme, October 1999 – August 2000.
15. Excellence Development Program on Water Quality, in collaboration with U.P. Jal Nigam and UNICEF, May 26, 2000.
16. Usage of Plastics and their Safety Evaluation at Lucknow Public School, under PACE Program of Hindustan Times. September 18, 2000.
17. JAL AUR JEEVAN a seminar organized at Govind Ballabh Pant Social Science Institute, Allahabad, January 21-23, 2001.
18. Water Quality Surveillance in Problem Villages of 30 Districts of U.P. Sponsored by U.P. Jal Nigam, Lucknow, 2001.
19. Importance of Water Quality and Role of NGO's in the seminar organized by ICMRT, Lucknow under Worldwide Fund for Nature. September 2001.
20. Water Quality Surveillance with Suggestive Safety & Preventive Measures in the Flood Affected Areas of Gorakhpur and Deoria District of U.P. Sponsored by UP-CST, Lucknow (27 Sept. – 5 Oct. 2001).
21. Importance of Water Quality Surveillance. A lecture delivered in the program organized by Benevolent Foundation and Department of Public Administration, University of Lucknow, Lucknow. October 2001.
22. Science and Technology exhibition at Shamli, Muzaffarnagar, in collaboration with ITRC-PTC-U.P. CST, 19-22 Dec. 2001.
23. Science and Technology exhibition at Pratapgarh, in collaboration with ITRC-PTC-U.P. CST, 27-30 Dec. 2001.
24. Training on water quality at Palampur, Himachal Pradesh in collaboration with PHED, Himachal Pradesh and Rajiv Gandhi National Drinking Water Mission, Delhi, July 2001.
25. Training on water quality at Shimla, Himachal Pradesh in collaboration with PHED, Himachal Pradesh and Rajiv Gandhi National Drinking Water Mission, Delhi, July 2001.
26. Science Model Competition at Regional Science Centre, Lucknow and National Council of Science Museums, under Ministry of Tourism and Culture, Govt. of India. November 13-14, 2002.
27. Deliberation on "Rain Water Harvesting" at Ganna Sansthan, Lucknow under sponsorship of Central Ground Water Board. June 10, 2005.
28. Member of Jury for models under "A century of Physics: Achievements & Challenges" on the occasion of 16th Anniversary of Regional Science Centre, National Council of Science Museums under Ministry of Culture, Govt. of India, September 6-7, 2005.
29. Plastics: Environmental Issues. Popular lecture at Maharishi Vidya Mandir, Indian Institute of Management Road, Lucknow. November 10, 2005.
30. National Consultation on Herbo-Metallic Preparation of Indian System on Medicine: Safety and Quality Standardization at Indian National Science Academy, New Delhi in Collaboration of SrirRam Institute for Industrial Research, Ministry of Science and Technology, Department of Ayush, Govt. of India, New Delhi, March 3-4, 2006.
31. National Quality Conclave for Global Competitiveness in collaboration of Quality Council of India, NRBPT, New Delhi, March 3-4, 2006.
32. CSIR rural action plan at RRL Bhopal, 6th –7th July 06.

33. Training Course in Science Journalism at Regional Science Centre, Indian Science Communication Society and Dept of Science and Tech Govt of India on 13th January 2007.
34. Training Workshop on “Waste Management – Concept, Legislative Implications, Status Analysis, Technological interventions and Approach for the future.” At Centre for Environment Education (CEE) (North), Lucknow on 26th-28th February 2007.
35. Meet the Scientist program under National Science Day Celebrations at Regional Science Centre, Ministry of Tourism & Culture under National Council of Science Museums on 28th February 2007.
36. Biofest- Member of Jury for Scientific exhibits and models at City Montessori College, Lucknow on 5th -6th May, 07
37. National Seminar on Polymer Composites at Central Institute of Plastics Engineering and Technology (CIPET), Lucknow- Participated as Chairperson for Technical Session on 12th March 2008
38. Delivered invited Lecture on Plastic and Polymeric Products implications on Environment and Human Health at Training Division, State Planning Institute, Kalakakkar House, Lucknow, Uttar Pradesh dated on 3rd Dec, 2008.
39. Participated in OCCUMI 2012 at Chemistry Department, University of Lucknow under Humboldt program in collaboration with University of Lucknow & delivered invited Lecture on Organotin compounds & toxicological implications, 3-6 January 2012.
40. Delivered the lecture on Environmental pollution & improvement in quality of life at Kalakakkar house, Planning department, U.P., 27th January 2012
41. Lecture on Plastic, Environment & health implications, delivered under University Refresher Course, University of Lucknow, 28th January, 2012
42. Participated as expert of toxicity for the Incubator Project Screening & recommendation for the CIPET projects for Medium & Small Enterprises [MSME] on 5th March 2012.
43. Delivered lecture on Importance and Needs of Quality Management System at Department of Zoology University of Lucknow under Special Assistance Programme -University Grants Commission [SAP-UGC] on 30th March 2012.
44. Imparted Training to participants of Project Planning and Management on Environmental Pollution at state Planning Department 6-8th Feb 2013.
45. All India Radio - Prasar Bharti / Akashvani broadcast on aao Jane Plastic / Polythene Me Pani Kitna Surakshit, 10th March 2013.
46. Delivered lecture on Importance of Water and Strategies in Monitoring for Improved Quality of Life during National Seminar on Changing Environment and Biodiversity at Department of Zoology, Navyug Kanya Mahavidyalaya, Lucknow on March 24, 2013.
47. Delivered lecture on Plastics and Environment: A close Interlink and Innovations for better Sustainability at Jhunjhunwala PG College, Avadh University, Faizabad, 9th April 2013

48. Participated in 2nd Hepatology Live 2013 Liver Disorders in Pregnancy and Current Concepts in Liver Diseases organized by Globe Medicare at Hotel Taj, Lucknow on 7th April 2013.
49. Organized and participated as Executive Member 5th Foundation Day programme of Society of Earth Scientists [SES] at Remote Sensing Application Centre, Lucknow, April 17th 2013
50. Participated in Review meeting of Rural Development on behalf of CSIR-IITR with Principal Secretary at UP Secretariat, 26th April 2013.

PAPERS AND POPULAR ARTICLES PUBLISHED IN ALLIED S&T AREAS

1. **V.P. Sharma.** Toxicology the science of poisons. Popular article published in "The Pioneer, January, 1990".
2. **V.P. Sharma.** *Sarpa Vish.* Popular article published in "Swatantra Bharat".
3. **V.P. Sharma.** The Golden Wonder of Honey. Popular article published in Annual Magazine of Lucknow Christian College, Lucknow.
4. **V.P. Sharma.** Science against superstitions. An article published in annual Magazine of St. Francis College, Lucknow.
5. **V.P. Sharma.** *Sudh Paijal Avem Jal Janya Vyadhi.* Published in Paryavaran Chetna, Vol. 4, 14-15, August 1994.
6. **V.P. Sharma.** The Agony and Ecstasy of Life. Published in the Annual Magazine of Lucknow Christian College, Lucknow University, Lucknow.
7. **V.P. Sharma** and P.K. Seth. *Plastic Udyog Va Haniyan.* Published as Pamphlet during *Vigyan Gaon Ki Aur* under CSIR programme at Gauriganj, 1989.
8. **V.P. Sharma** and P.K. Seth. Waste Management: Importance and Approaches in the Plastic Industry. Presented during Waste Management Seminar held at Botany Department, Lucknow University, Lucknow, March 25-26, 1996.
9. **V.P. Sharma** and P.K. Seth. *Plastic Udyog Evam Upbhogta Sangrakshan Hetu Suraksha Mulyankan Ka Mahtev.* Published during Hindi Week celebrations at ITRC, Lucknow, September 1997.
10. **V.P. Sharma,** A.B. Pant and P.K. Seth. *Plastic: Paryavaran avam Swasthya* Published as *Shodh Patra Sankalan* during national Conference on Environment and Health, pg. 42-43, February 27-28, 1998.
11. **V.P. Sharma.** *Suraksha Mulyankan Ka Mahtev.* Published in Vish Vigyan Sandesh ITRC, 1999.
12. **V.P. Sharma,** Krishna Gopal and Kartikeya Shukla. Biodiversity and Its Maintenance. ENVIS Newsletter, August 2002.
13. Satish Shukla, A.B. Pant, **V.P. Sharma,** M.Anand, S.P. Srivastava and P.K. Seth. Evaluation of leaching of phthalates, metals, and colourants from plastic toys (PP- 102). p. 31. 22nd Annual Session of Academy of Environmental Biology at National Bureau of Fish Genetic Resources, Lucknow, September 11-13, 2002.
14. **V.P. Sharma** and Kartikeya Shukla. *Plastic: Upyog kitna surakshit?* Seminar on Environment and Human Health (Hindi), November 14-15, 2002.
15. **V. P. Sharma,** Sanjay Singh, Kartikeya Shukla, Abhinav Shankar and Prahlad Kishore Seth. *Audhogik Pradusan aur Paryavaran.,* Vigyan, Pg 4-7, July 2006
16. Pankaj Shukla and **V. P. Sharma.** *Trapti deta jal.*(poem on water), Paryavaran Digest Pg 38, September, 2007

17. Pankaj Shukla and **V. P. Sharma**. *Ab mai kya karu?*(poem on water pollution), Vigyan kavya, Vigyan Pragati Pg 52, October, 2007
18. U. K. Shukla and **V. P. Sharma**. *Jiv chikitsa apashist Prabandhan*, Visvigyan Sandesh, pg 48-51, Nov, 2008.
19. **V.P.Sharma**, A.Srivastava, A.K.Singh and S Joshi Melamine- Human Health, Environment and Toxicity Babu Banarsi Das Group of Institutions, Lucknow .Proc.Chemenviro Interdisciplinary Publication pg 72-73,2010.
20. A.H.Khan, A .Misra, A.K.Singh and **V.P.Sharma** Healthcare Industry-Application of Mercury in Biomedical Products and Waste Management Proc Workshop on mercury Phase out in Health Care sector organized by Toxic Links, New Delhi March 24th,2011
21. A.K.Singh and **V.P.Sharma** Implications of Polymeric Dust Particles on Indoor Environmental Quality Workshop on mercury Phase out in Health Care sector organized by Toxic Links, New Delhi March 24th, 2011
22. M.M.K.Reddy, R.Jain, V.K.Dua, A.K.Singh, **V.P.Sharma**, R.CMurthy. Application of Ethyl Chloro Formate Derivatization for Solid-Phase Micro-Extraction Gas Chromatography-Mass Spectrometric Determination of Bisphenol A In Water and Milk Samples,2011.Journal of Analytical and Bioanalytical Chemistry
23. S.Umar & **V.P.Sharma** Plastics & Polymers ENVIS Newsletter 2011
24. **V.P Sharma**, **R.Kumar**, S.Umar, M.Lohani & A.Rahman. Applications and Health Associated Implications of Organometallic Compounds for Plastics & Polymer Industry, International Conference & Humboldt Kolleg, Jan 2012
25. Pandey V, Singh A K and **Sharma VP**. Safety Considerations and Improvements Strategies from Toxicological Perspective. XXI ICFOST, Pune, Jan 2012.
26. Resource Person for Importance of Water Quality and strategies in monitoring for improved quality of life during National Seminar on Changing Environment and Biodiversity at Navyug Kanya Mahavidhyalya under Golden Jubilee Year sponsored by Department of Higher Education, Govt of UP; 24th March 2013.

PROGRAMMES THROUGH ALL INDIA RADIO, DOORDARSHAN, FM CHANNEL, ZEE CHANNEL, ETV CHANNEL, DIKSHA GROUP

(Dissemination of scientific knowledge for the masses through media)

1. Utility and Toxicity of Plastic.
2. Khan Pan Sambandhi Sawdhaniyan
3. Plastic aur Hum
4. Jal Sambandhi Praudyogikiyan
5. Jal hi Jeevan Hai
6. Plastic: Abhishap yaa Vardan
7. Plastic pouch Kitna Surakshit
8. Water
9. Voice of Lucknow
10. Kabir Peace Mission
11. Lucknow Management Association
12. International Year of Chemistry- 2011 Programmes through Vigyan Prasara (DST)
13. VIPNET- Newsletter of DST: Polymers
14. Response to Parliament /Lok Sabha queries on Plastics and interrelated issues [since 1987 to date as referred to CSIR-IITR,Lucknow]