

Dr. VIPIN VYAS

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Department of Limnology
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Date of Birth : 05/11/1965
Languages Known: Hindi and English

Marital Status: Married
Nationality: Indian

Academic Record:

- M.Sc. (1987) from Barkatullah University, Bhopal in Limnology
- Ph.D. (1992) from Barkatullah University, Bhopal in Limnology

Fields of Interest: Limnology

Teaching Experience:

- Experience of teaching M.Sc. Classes in the Deptt. Of Limnology, Barkatullah University, Bhopal as Research Scholar.
- Taught in the Deptt. Of Limnology as Contract Lecturer since November 1997 till September 2003.
- Taught Lecturer in Department of Environmental Science and Limnology from Sept. 2003 to Sept. 2014
- Teaching as Associate Professor in Department of Biosciences from October, 2014 till date

Fellowships (Under Research Projects)

JRF,SRF and RA of Ministry of Environment and Forests(Govt. of India)

Post Doctoral Research:

1. Worked as Research Associate in the Project sponsored by MOEF

2. Dissertations supervised:

Supervising M.Phil Dissertation in Deptt of Limnology & Deptt. of Bioscience
Supervising M.Sc. Dissertations in Deptt. of Limnology. & Department of Biosciences
Supervised two PG Diploma dissertation for National Institute of Ecology and Environment, New Delhi.

3. Conducting independent Research Projects sponsored by various agencies

Experience of Doctoral Guidance:

- 8 students got Ph.D. Degree
- Six students are registered for Ph.D.

Positions held:

- Worked as JRF, SRF and RA in different research projects of state and central funding agencies
- Worked as Senior Environmental Officer in an Environmental Consultancy Organization.
- Worked as Lecturer in Deptt. of Limnology, Barkatullah University, Bhopal.

Visit Abroad:

- Visited Malaysia to attend International Conference on Wetlands and Development organized by Asian Wetland Bureau in October 1995.
- Visited China to attend 13th World Lake Conference held between 1-6 Nov. 2009
- Visited Kathmandu (Nepal) to attend Seminar on Lake Conservation and ILBM held in March 2010
- Visited London (UK) to attend INTECOL 2013 organized by British Ecological Society

Computer Literacy

- Working knowledge of Window based packages for data analysis and word processing.

Training in GIS and Remote Sensing:

- Attended short term training in GIS and Remote Sensing Application at Remote Sensing Agency, MP Council of Science & Technology, Bhopal sponsored by Deptt. Of Space (Govt. of India)
- Attended three days intensive training in GIS and Remote Sensing Application at Remote Sensing Agency, MP Council of Science & Technology, Bhopal sponsored by Deptt. Of Space (Govt. of India)
- Undergone hands-on training in GIS application imparted by ESRI-NIIT on ARC/GIS
- Undergone hands-on training in Remote Sensing application imparted by ERDAS on ERDAS Imagine Software

Departmental Programmes Developed:

- Member of 11th Plan Committee of the University
- Developed Five Year Plans for the Deptt.
- Developed Collaborative Programmes with external agencies
- Developed SAP Programme for UGC and FIST Programme for DST

Projects Completed: (As Principal Investigator)

- Completed a minor research project on habitat of migratory wetland birds of Bhopal sponsored by M.P. Council of Science & Technology
- Completed a project on Integrated fish Farming sponsored by Department of Science & Technology, New Delhi
- Status of Fish Biodiversity in Protected Aquatic Areas of Narmada Basin : Sponsored by MP Biodiversity Board
- Study of Aquatic Habitat of Tawa Sub Basin w/r to its integration in river basin management and biodiversity conservation.: Sponsored by UGC under Resource Mobilization Scheme
- Ecology of Water Birds in Flood Plain and Reservoir inundated areas of Narmada Basin. Sponsored by ISRO
- Rapid Limnological Study of water resources in and around proposed Rewapur thermal power plant sponsored study by MECON (Govt. Of India).
- Aquatic Biodiversity Documentation and Suggesting Measures for their Conservation in Rivers and Ponds of MP. Sponsored by MP Biodiversity Board
- Fish Biodiversity in Fragmented Habitats with reference to Central Narmada Landscape Major Research Project Sponsored by UGC, New Delhi
- Limnological Study of Shahpura Lake of Bhopal Purpose driven Study sponsored by World Bank Hydrology Project II

(As Co-Investigator)

- Pre and Post Limnological Studies of Narmada River Sponsored by NVDA Bhopal

Affiliation/Subscription:

- British Ecological Society, London
- Society for Environmental Conservation (Founder Secretary)
- International Society of Tropical Ecology (Member)
- International Society of Naturalists(Subscriber)
- Bombay Natural History Society (Member)
- WWF-India (Member)

Contacts with International Agencies

- *IUCN, Switzerland
- *Ramsar Convention on Wetlands, Switzerland
- *Wetlands International, UK and Malaysia
- *Wetland Link International, UK
- *UNEP-UNESCO Env. Education Programme, France
- *Environment Education in UK
- *Environment Unit of World Bank
- *GEF
- *Convention on Biological Diversity

Awareness programmes/camps organized

- o Nature Study Camp at Pachmarhi sponsored by Ministry of Environment (GOI) and MPCST
- o Bird Watching camp at Van-Vihar, Bhopal sponsored by EPCO
- o Nature camp at Chiklod wetland sponsored by Ministry of Environment (GOI)
- o Water Testing Training Programme sponsored by EPCO
- o Computer Awareness Workshop for the Visually Impaired Persons sponsored by Indian Institute of Science. Bangalore
- o Nature tracking camp at Pachmarhi sponsored by Ministry of Env. (GOI)
- o Drinking Water Quality Monitoring: Training programme sponsored by EPCO and MPCST
- o AIDS Awareness Campaign sponsored by State AIDS Cell (Govt. of M.P.)
- o Detection of Adulteration of Food: Training programme sponsored by MPCST
- o Bhoj Wetland Awareness Programme sponsored by EPCO

Resource Person:

- NCERT: Biodiversity Education
- IIFM : Biodiversity Education
- NCSTC(DST): Biodiversity
- NCSTC(DST): Weather
- RMNH, Bhopal: Environment
- RSC, Bhopal : Environment
- EPCO, Bhopal

Seminars/Workshops organized

- Coordinator: National Seminar on Conservation and Management of Aquatic Resources sponsored by Deptt. of Higher Education and Deptt. Of Biotechnology (GOI)
- Convener: Nature Study Workshop emphasizing Conservation of Wetlands and Wetland Birds sponsored by WWF-India
- Joint Secretary: Organizing Committee of National seminar on Mycorrhiza

- Member , Organizing Committee of Refresher Course on Biodiversity sponsored by UGC (February, 2002)
- Coordinator: National Conference on Biodiversity and Sustainable Use of Bioresources held at Bhopal (Oct. 2002)
- Coordinator: National Teachers Science Congress held at Bhopal in Set. 2003 sponsored by NCSTC(DST)
- National Monitoring Workshop on Fast Track Projects in Life Science sponsored by DST (Oct. 2006)
- International Conference of Association of Microbiologists of India (Dec. 2006)
- Convener, Brain Storming Session on Biodiversity sponsored by DST (Dec. 2007)
- Coordinator, Technical Sessions, International Conference of Geographers held at Bhopal (March 2008)
- Organizing Secretary, Brain Storming Session on ILBM with reference to Conservation of Bhoj Wetland of Bhopal in August 2009.
- Member of organising Committee: National Seminar on Biodiversity held at Department t of Biotechnology Barkatullah University Bhopal 29-30 Jan 2011
- Coordinator, Brain Storming Session on

International Conferences attended:

- International Conference on Surface Water Management held at Bhopal in 1985
- International Seminar on Wetland Ecology held at Bharatpur in February 1991
- International Conference on Wetlands & Development held at Kaulalumpur (Malaysia) October 1995
- World Wilderness Congress held at Bangalore in October 1998
- International Seminar on Life Cycle Assessment held at IGIDR, Mumbai. Feb 2002
- International River Festival held at Bandrabhan in Feb 2008
- International Conference of Geographers held at Bhopal (March 2008)
- International Workshop on ILBM : ILEC and Osmania University Hyderabad (August) 2008
- 13th World Lake Conference held at Wuhan China in November 2009.
- International Conference on Climate Change and Biodiversity held at Ferguson College , Pune in December 2009
- International River Festival held in Hoshangabad, March 2010
- Seminar on ILBM and Conservation of Himalayan Lakes held in Kathmandu, Nepal in March 2010.
- IINTECOL Conference held in London in August 2013

Invited Lectures delivered:

- At Sanjay Gandhi Institute of Rural Youth Leadership Development, Pachmarhi
- At Orientation Programme organized by SOS Children's Village, Bhopal
- At Ramakrishna Vidyalaya, Bhopal
- At Regional Museum of Natural History, Bhopal
- At Regional Science Centre, Bhopal

Reports prepared:

- *Experience of preparing reports of the research projects in the University
- *Prepared reports of the projects/programmes completed independently
- *Experience of developing projects for funding agencies.

EIA Reports/Detailed Projects Reports

- EIA report of Maihar Cement DST Satna (Prepared for CICON Environment technologies P.Ltd)
- DPR of Solid Waste Management and Energy production in Ujjain City. (prepared for CICON Environment technologies P. Ltd.)
- EIA report of Godrej Foods Mandideep (under preparation for Encon Environmental Consultancy)

Research Papers

1. Rotifer fauna of two fresh water fish ponds of Bhopal, Environmental Strategy and Biosciences (ed. R. Prakash), 1989/223-226
2. Preliminary observations on the algae in some water works of Bhopal. *Indian Journal of Applied and Pure Biology*. 1990 Vol. No. 1, 9-11
3. Bacterial Water Quality of some Public Bathing Places of Bhopal *Barkatullah University Research Journal*, 2 1990 25-26.
4. Limnological Status of a sewage polluted pond in an industrial Township. *Recent Trends in Limnology* (Ed. V.P. Agrawal & P. Das) 1990 427-438
5. On selection of Methods and Media for Isolation of Fresh Water Actinomycetes. *Environmental Technology* (UK) Vol. 12, 1991, 1183-1186
6. Waterfowl community of Bhoj Wetland of Bhopal with reference to its management and conservation. *Environment & Biodegradation* (Ed. V.P. Agrawal) 1992, 155-162
7. Rehabilitation of twin lakes of Bhopal. *Pollution in Indian lakes and Reservoirs* (Ed. P.C. Mishra & R.K. Trivedi), 1993, 93-98.
8. Observations on the management of a tropical Wetland Ecosystem. *Journal Hydrobiology* Vol. X. No. 1. Pp 13-28. 1995.
9. Ecotechnological intervention for treatment of Domestic Sewage – An experimental study: *Indian J. Applied & Pure Bio*. Vol. 15(1) 25-29 (2000)
10. Studies on Essential Oil of *Polygonum glabrum*: *Indian Journal of Natural Products* Vol. 17, No. 1. 25-27 2001
11. Performance Evaluation of A Constructed Wetland (Root Zone System) For its Efficiency to Treat Industrial Waste Water: *Asian Jr. Microl. Biotech. Env. Sc.* Vol.4, No. (3): 421-426, 2002
12. Conservation of Fish Biodiversity in Protected Areas: Legal and Administrative Aspects: *Proc. Of NBFGR* 2003
13. Biodiversity of Aquatic Vegetation in Upper Lake of Bhopal. *Proc. Nat. Workshop on Biodiversity & Conservation of Aquatic resources W/R to Threatened Fish Mahseer*. 2003. 135-142
14. On the occurrence of Fingerlings of *Tor tor* in Denwa river of Pachmarhi Biosphere Reserve *Fishing Chimes* April 2004 140-143
15. Conservation of Fish Biodiversity of Narmada River: A Community Perspective *Proc. Of NBFGR* 2005.
16. Fish Biodiversity of in streams of Narmada Basin with reference to its conservation. *Proc. Of NBFGR* 2005. 32-34. 128-130
17. Distribution of Phosphorus in a Eutrophic lake in Tropical Area. *2007 Jour. Env. Res. & Dev.* Vol.1 No.4.
18. Temporal Variation in Fish Biodiversity of River Narmada in Hoshangabad Region : *Nat. J. of Life Sc.* 3(3): 2006, 301-307
19. Fish Diversity of River Narmada in Hoshangabad Region : *Freshwater Fish Diversity for Central India* (Ed. Lakra and Sarkar) *NBFGR*, Lucknow. 2006. 85-91
20. Fish Biodiversity of Upper Lake of Bhopal and its Role in Livelihood of Fishermen Community: *Freshwater Fish Diversity for Central India* (Ed. Lakra and Sarkar) *NBFGR*, Lucknow. 2006. 92-95
21. Aquatic Biodiversity Documentation and Suggesting Measures for Their Conservation in Rivers and Ponds of MP : *Freshwater Fish Diversity for Central India* (Ed. Lakra and Sarkar) *NBFGR*, Lucknow. 2006. 105-109
22. Mapping of Meso-Habitat Diversity in River Narmada in Hoshangabad Region: *Fishing Chimes* Vol. 27. No. 9 2007. 49-53
23. Fish Biodiversity of river Narmada in Hoshangabad region. Fresh water fish diversity of Central India. Proceeding of the Workshop on “conservation Assessment of Freshwater Fish diversity (CAFF) for central India” organized by NBFGR on 25 November, 2006 at CIAE Bhopal, M.P., India. pp, 85-91.
24. Fish Catch Composition of River Narmada with reference to Common Fishing Gears in Hoshangabad Area. *Life Sc. Bull.* Vol. 4 (1&2) 2007.

25. Fish Biodiversity profile of Betwa river in selected stretch of Madhya Pradesh Proc. Of International River Festival Feb. 2008, 98-104.
26. Fish Biodiversity and its Preferential Habitats of Selected Stretch in Narmada River. (2008) *Nature and Environment* Vol.8 No. 1, 81-89
28. Riverine Habitat Mapping Using Remote Sensing and GIS: A Case Study of River Narmada. (2008) Proceeding of the National Conference on Recent Advances in Satellite Based Remote Sensing Technology organized by MANIT Bhopal.
29. Aquatic Protected Areas in River Narmada around Hoshangabad. (2009) *Ecology and Fisheries* Vol. 2(1): 51-56
29. Fish Biodiversity in relation to Habitats in Betwa river in selected stretch of MP. (2009) *Journal of Aquatic Biology* Vol. 24(1) 44-49.
30. Developing Spatial Database of Some Small Waterbodies for Aquaculture Development. (2009) *Fishing Chimes* Vol.29 No. 3, 41-43
31. Integrated Fish Farming for Tribal Fish Farmers of Betul District (2009) *Navin Samajik Shodh* (1)28-34.
32. Fish Biodiversity of Narmada in Submergence area of Indira Sagar Reservoir. (2009) *J. Inland Fish Soc. India* 41(2): 18-25
33. Macro-zoobenthic Diversity of Tropical Water Body (Upper Lake) Bhopal (2010): *The Ecoscan* 4(1):69-72.
34. ILBM in Conservation and Management of Bhoj Wetland (Upper Lake): A Ramsar Site of Bhopal (India)(2010) : Proceedings of National Seminar on ILBM and Conservation of Lakes in Nepal. 35-39
35. Avian Diversity of Bhoj Wetland: A Ramsar Site of Central India: (2010) *Our Nature* (2010) 8:34-39
36. Molluscan diversity in upper basin of Bhoj wetland Bhopal – A Ramsar site (2010) *Current Biotica* : Vol 4 Issue 2, 2010: 207-215
37. Fish Biodiversity and its status in Tapti river in Madhya Pradesh in Sustainable management and Conservation of Biodiversity (Ed: BN Pandey, Shivesh Pratap Singh & Rashmi Singh) Narendra Pub. Delhi. . page 39-48 2010
38. Blue green micro algae Spirulina: A gift of Nature. *Naveen Samajik Shodh* Vol. 11 P 23-24/2010.
39. Introduction to Essentials of an ideal Bio-Medical Waste management- An Indian Context. *Moolah* Vol. 1 Issue -1 . 67-71 2010
40. Limnological studies in River Denwa in Pachmarhi Biosphere Reserve: Accepted for publication in *Journal of Aquatic Biology* (2011)
41. *Biosci. Biotech. Res. Comm.* Vol. 4, No. 2, (Dec, 2011). 254-263
42. Fish Biodiversity of Betwa River in Madhya Pradesh, India with special reference to a Sacred Ghat *International Journal of Biodiversity and Conservation*. Vol. 4(2). Pp 71-77. 2012
43. Distribution of Macrophytes in River Narmada near Water Intake Point. *Journal of Natural Sciences Research* Vol.2, No.3, 54-59 2012.
44. Distribution of Macrozoobenthos in River Narmada near Water Intake Point. *Journal of Natural Sciences Research*. Vol.2, No.3, 2012.
45. Diversity of molluscan communities in River Narmada, India. *Journal of Chemical, Biological and Physical Sciences*. Vol-2, Issue- 3, pp- 1407- 1412, 2012, e-ISSN- 2249-1929. Impact factor- 0.723.
46. Avian diversity in Barna wetland of Narmada basin in Central India. *Journal of Research in Biology*. Vol. 2, No. 5, pp- 460-468, 2012. ISSN- 2231-6299.
47. Status of riparian buffer zone and floodplain areas of River Narmada, India. *International Journal of Environmental Sciences*. Vol. 3, No. 1. 2012, 659-674. ISSN- 0976-4402.
48. Comparative Study of Different percentage of natural carotenoid source Spirulina Platensis on growth and survival of Puntius Sopheore. *Journal of Chemical, Biological and Physical Sciences*. Vol-2, Issue- 4, 2012, pp- 2210-2216, e-ISSN- 2249-1929. Impact factor- 0.723.
49. Studies on Influence of Sub-Lethal Concentrations of Cadmium Chloride on Gonado-Somatic Index (GSI) of Air-Breathing Fish *Heteropneustes fossilis*. *Journal of Environmental Science, Computer Science and Engineering & Technology*. Vol.1, No.3, 2012, 429-432. E-ISSN: 2278-179X. Impact Factor- **1.472**.
50. Ichthyofaunal diversity of Halali reservoir, Vidisha, Madhya Pradesh. *International Journal of Scientific and Research Publications*. Vol- 2, Issue- 12, 2012, pp- 1-7. ISSN- 2250-3153.

- 51 Histological changes in the testis of air-breathing fish, *Heteropneustes fossilis* (Bloch) following Cadmium chloride exposure. *Journal of Chemical, Biological and Physical Sciences*. Vol. 3, No. 2, 1216-1221. 2013, E- ISSN: 2249 –1929. Impact Factor- **0.723**.
- 52 Fish Diversity in two Tributaries of River Narmada, Central India. *Journal of Chemical, Biological and Physical Sciences*, Vol - 3, No – 4, pp – 2722-2730, 2013, e-ISSN- 2249-1929, Impact Factor- 0.723.
- 53 Assessment of macrozoobenthic structure in relation to physico-chemical components in Barna stream network of Narmada River basin. *Asian Academic Research Journal of Multidisciplinary*, Vol- 1, Issue- 14, pp- 20-38, 2013.
- 54 Satish Balapure, Sumana Dutta and Vipin Vyas (2013). Physico-chemical factors affecting the distribution of wetland birds of Barna reservoir in Narmada basin, Central India. *International Journal of Biodiversity and Conservation*. Vol- 5, Issue- 12, pp- 817-825. ISSN- 2141-243X.
- 55 Benthic community structure in Barna stream network of Narmada River basin. *International Journal of Environmental Biology*. Vol- 3, Issue- 2, pp- 57-63, 2013, ISSN- 227-386X.
- 56 Histopathological changes in the gills of freshwater murrel, *Channa striatus* (Bloch) exposed to Lead nitrate. International Conference on Waste, Wealth and Health organised by IJWM, Vigyan Bharti & MPCST, Bhopal in association with MPPCB, GIZ & NSWAI at Bhopal. Chapter-V-26 pp. 134-137, 2013.
- 57 Lead Nitrate Induced Histopathological Alterations in the Gills of Freshwater Teleost, *Channa striatus* (Bloch). *Journal of Chemical, Biological and Physical Sciences*. Vol. 3, No. 2, 1109-1114, 2013, E-ISSN: 2249 –1929. Impact Factor- **0.723**.
- 58 Diversity of macrozoobenthos in Morand River- A Tributary of Ganjal River in Narmada Basin. *International Journal of Advanced Fisheries and Aquatic Science*, Vol- 1, No- 1, pp- 57-65, 2013, Article ID Sci-157.
- 59 Physico-chemical features of water in Tawa river of Madhya Pradesh, India. *International Journal of Environment and Bioenergy*. Vol- 6, Issue- 3, pp- 193-201, 2013. ISSN- 2165-8951.
- 60 Study on Ichthyofaunal Diversity of Jamner River: A Tributary of Narmada River. *International Journal of Theoretical & Applied Sciences*, Vol -5, No – 2, pp – 50-55, 2013. ISSN- 0975-1718 (Print), ISSN- 2249-3247 (Online).
- 61 Species diversity and assemblage of fish fauna of Sip River: A tributary of Narmada River. *Journal of Research in Biology*, Vol - 3, No – 5, pp– 1003-1008, 2013. ISSN- 2231-6299.
- 62 Environmental Study of Sip and Jamner river. *Shodh Sankalp research journal of Engineering, Management, Arts, Science, Education and Commerce*, Vol -6, Month: May-July, pp - 25- 28, 2013. ISSN- 2277-2715.
- 63 Physical habitat assessment of river Denwa using GIS techniques. *Journal of Indian Society of Remote Sensing*, Vol- 41, No- 1, pp- 127-139, DOI: 10.1007/s12524-011-0191-2, Impact Factor- 0.528 (Springer Publication).
- 64 Diversity of macrozoobenthos in Morand River- A Tributary of Ganjal River in Narmada Basin. *International Journal of Advanced Fisheries and Aquatic Science*, Vol- 1, No- 1, pp- 57-65, Article ID Sci-157.
- 65 Assessment of Riparian Buffer Zone of Chandni Nalla- A stream in Narmada Basin, India. *Advances in Applied Science Research*. Vol- 5, No- 2, pp- 102-110, ISSN: 0976-8610.
- 66 Diversity of macrozoobenthos in the selected reach of River Narmada (Central Zone), India. *International Journal of Research in Biological Sciences*. Vol- 4, No- 3, pp- 60-68, ISSN: 2249–9687.
- 67 Assessment of Fish assemblage and distribution in Barna Stream Network in Narmada basin (Central India). *International Journal of Advanced Research*, Vol-2, Issue- 1, pp- 888-897, 2014. ISSN- 2320-5407.
- 68 Histoarchitectural alterations in the Liver of freshwater murrel, *Channa striatus* (Bloch) after exposure to sub-lethal concentrations of Lead nitrate. *Indo American Journal of Pharmaceutical Research*. Vol 4, Issue 04, pp- 1976-1980, 2014. ISSN NO: 2231-6876. Impact Factor- 1.25.
- 69 Conservation of sacred waterbodies: A case study of Madhya Pradesh. *Ecological Traditions of India Madhya Pradesh and Chhattisgarh*. Vol- 9, pp- 9-16. ISBN-978-81-86901-22-9.
- 70 Morphometric analysis of six sub-watersheds in the central zone of Narmada River. *Arabian Journal of Geosciences*. Vol- 8, No- 8, pp- 5685-5712, DOI: 10.1007/s12517-014-1655-9, Impact Factor- 1.152, ISSN: 1866-7511 (Springer Publication).
- 71 Study on the ecological status of Kaliyadeh stream- A tributary of River Narmada. *Science Insights: An International Journal*. Vol- 5, No- 1, pp- 1-8. ISSN: 2277–3835.

- 72 Assessment of various ecological parameters of Bhagner stream- A tributary of River Narmada in the central zone, India. *International Journal of Research in Natural and Applied Science*. Vol- 5, No- 1, pp- 1-6.
- 73 Study on the ecological status of Chandni nalla- A tributary of River Narmada in the central zone, India. *International Journal of Research in Environmental Science and Technology*. Vol- 5, No- 1, pp- 19, ISSN: 2249-9695.
- 74 Assessment of Macrophytic diversity in selected reaches of River Narmada at Hoshangabad District of Madhya Pradesh. *International Journal of science, Engineering and Technology Research (IJETR)*, Vol-4, No-10, pp- 3338-3344, ISSN: 2278-7798.
- 75 Histopathological changes in the Liver and Kidney of freshwater teleost, *Channa striatus* (Bloch) on exposure to Lead nitrate. *Asian Journal of Experimental Sciences*, Vol.28 (2), 1-7.
- 76 Comparative study of ichthyofaunal diversity of sip and Jamner Rivers: A tributary of river Narmada (Central India). *International Journal of Fisheries and Aquatic Studies*. Vol-4, Issue-3, pp- 604-610. ISSN: 2347-5129
- 77 Diversity of benthic macro-invertebrates in four tributaries of River Narmada in the central zone, India. *Int. J. of Life Sciences* .Vol- 4, Issue-1, pp-107-115. ISSN: 2320-7817.
- 78 Histopathological effect of lead nitrate on the gills of freshwater fish, *Channa striatus*. *International Journal of Fisheries and Aquatic Studies*, Vol.4 (4): 216-218. ISSN: 2347-5129 IC Value: 5.62, IF 0.352.

Papers in International Seminars

1. Management of drinking Water Source in Tropics: A case Study of Upper Lake of Bhopal. Accepted in Second Science Congress held at Thailand in November 1992
2. Economic and hygienic management of water works of Bhopal. Accepted in International Seminar on Water Resource held at Barcelona, Spain in July, 1993.
3. Bacteriological quality of some drinking water source of Bhopal. Accepted in International symposium on Tropical Limnology held on Salatoga, Indonesia in July 1994.
4. Impact of Restoration and Conservation measures on habitats of water-fowl: A case study of Bhoj Wetland of Bhopal (India). Accepted for oral presentation in International Waterfowl symposium.
5. Peoples participation in wetland management: Case studies of Bhoj and Chiklod wetlands of India. International Conference on wetlands and development Malaysia 1995.
6. Tourism and Wetlands: Case studies of some Indian wetlands. Communicated to Seminar on Wetlands & Development – 95, Malaysia.
7. Peoples participation in watershed management; A case study of a tribal district of M.P. Communicated to second Wetland conference to be held at Senegal.
8. Need of deciding priorities of uses for sustainable usage and management of multiple use wetlands accepted in World Wilderness Congress held at Bangalore in October 1997.
9. Rural wetlands: Need of evolving the concept of co-management for sustainable living. Accepted in World wilderness congress held at Bangalore in October 1998.
10. Impact development project on the habitats of colonial birds. Accepted in International workshop of SIL working group on Aquatic Birds held Mexico in Nov. 1997.
11. Peoples participation in watershed management: case study of a tribal district of Central India, accepted in second International conference on wetlands and development held in Dakar, Senegal in Dec 1998.
12. Performance evaluation in artificial wetland for treatment of industrial waste, accepted in International Conference on Phragmites dominated wetlands held in Trebon, Czech Republic in April 1999
13. Community driven lake restoration campaign: A case study of Mansarovar lake of Bhopal accepted in International Lake Conference (ILEC) held in Denmark in May 1999.

Editor:

- Editor of Wilderness, (magazine devoted to Nature)
- Editorial Advisor of Nature Dialogue News Letter of SEC

Booklets/Folders published:

- Folder on Water Testing Techniques sponsored by EPCO.
- Bird Watching: A beginner's Guide sponsored by WWF-India

- Detection of Food Adulteration sponsored by MPCST

Books under publication:

Nature Guide to Aquatic & Wetland Plants of Bhopal region (prepared under Biodiversity Education series of SEC).

Popular articles/News Items:

Δ Damaged Pipelines causing cholera in the city. MP Chronicle/Nav

Δ Bharat/Nai Duniya/National Mail

Δ New Pipelines must be laid down National Mail

Δ Sports at Bhopal lakes will hit bird habitat. Indian Express

Δ Bhopal Chiklod lakes favorite for Birds. National Mail