

Name	: Dr. Vijay Prakash Semwal
Designation	: Assistant Professor
Qualification	: Ph.D.
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Blood Group	: A+



Dr. Vijay Prakash Semwal

Started his teaching career as Assistant Professor in Zoology, Government Post Graduate College, New Tehri, Tehri Garhwal (Uttarakhand). Having a teaching experience of more than 15 years in Graduate and Post Graduate classes, he has been working for the past fifteen years on the Distribution Patterns of Benthic Macroinvertebrate Community, Water Quality Monitoring, Conservation of Aquatic Ecology and Biodiversity of the Mountain Streams and Rivers in Garhwal Himalaya. Over two dozen of research papers on several aspects of Distribution Patterns, Water Quality Monitoring, Aquatic Biodiversity Conservation, Limnology, Fish Biology and Fish Ecology. Fellow and life time member of many National as well as International academic societies and actively participated and Organized in a number of National, International Conferences, Seminars-Symposia & Workshops.

DETAILS OF RESEARCH (ACADEMIC) EXPERIENCE

Research Area

Broad area

Since (1999 to date)

Fundamental Issues

Stream and River habitat and communities in Mountain Environment.

Aquatic Biodiversity

Benthic Macroinvertebrate

Environmental Biology of Endangered/Threatened Fish Population.

Himalayan Wetland Ecology.

Applied Issues

Water quality monitoring using biotic communities.

Conservation of fish ecology.

Resent (2002 onwards)

Aquatic Biodiversity

Benthic Community
Fresh water Fishes
Systematic Population Dynamics.
Ecology of Man –Made Reservoir.

Research Experience

Pre Doctoral 3 years (Including Project Assistant, JRF)

1. Diatom Biodiversity in the Himalayan Lotic Systems.

2. Post Doctoral 4 years (SRF) Benthic Macroinvertebrate Community in the Mountain

Stream: Longitudinal Patterns of Distribution.

Teaching Experience

18-year Govt. P. G. College New Tehri, Higher Education, Government of Uttarakhand.

PUBLICATIONS

Research papers- 26

1) J. P. Bhatt, **V. P. Semwal** & M. K. Purohit (2003) Prospective Fisheries Development and Management in Uttarakhand State, in Central Himalaya Environment and Development Ed by M. S. S. Rawat Vol I, 122-129.

2) Prakash Nautiyal & **V.P. Semwal** (2004) A Preliminary study of the Diversity of Diatoms in streams of the Mandakini basin (Garhwal Himalaya) Seventeenth international Diatom Symposium Ottawa Canada.M.Poullin Ed.pp 235-269.

3) **V. P. Semwal** Prakash Nautiyal & Geeta Rawat (2005) Diversity of Ephemeroptera Community in Lesser Himalayan Streams and Rivers (Garhwal Region)

4) Prakash Nautiyal & **V. P. Semwal** (2006) Benthic Macroinvertebrate Community in the Mountain Stream: Longitudinal Patterns of Distribution in West Himalaya (Gangetic Drainage - Mandakini Basin), Journal of Mountain Research, Vol. 1 pp 39-49.

5) Prakash Nautiyal Asheesh Sivam Jyoti Varma & **V.P.Semwal** (2007) Bhagirathi River- An Endangered Ecosystem pp164-166.

6) Prakash Nautiyal & **V. P. Semwal** (2008 in press) Longitudinal Distribution in the mountain stream (Mandakini basin, West Himalaya- India) Benthic macroinvertebrate community.

7) Prakash Nautiyal, **V. P. Semal**, Rachana Nautiyal & Kavita Kala (2008 in press) Indicator Diatoms in Mountain River Under Anthropogenic Influence, **Hydrobiologia** pp 223-245.

8) Prakash Nautiyal & **V. P. Semwal** (2009) Benthic Macroinvertebrate Community in the Mountain Stream: Longitudinal Patterns of Distribution in West Himalaya (Gangetic Drainage-Mandakini Basin), Journal of Hill Research, Vol. 1 pp 39-49.

9) **V. P. Semwal & Deviya Goel** (2012) Longitudinal Patterns of Distribution Benthic Macroinvertebrate Community in the Mountain Stream: in West Himalaya (Gangetic Drainage-Mandakini Basin), Journal of Hill Research, Vol. 1 pp 39-49.

10) **V. P. Semwal & Deviya Goel** (2012) Longitudinal Patterns of Distribution Benthic Macroinvertebrate Community in the Mountain Stream: in West Himalaya (Gangetic Drainage-Mandakini Basin), Journal of Hill Research, Vol. 1 pp 39-49.

PARTICIPATION IN CONFERENCE/ SEMINARS/SYMPOSIA/ WORKSHOPS ATTENDED

International - 04

- 1) Tropical Aquatic Ecosystems, 25-30 October, 1999 Nainital.
- 2) Biodiversity & Ecophysiology of Animals, 26 Feb.-02 March, 2002, Varanasi.
- 3) Ecology of Biological Invasions, 4-6 December 2003, New Delhi.
- 4) The Majestic River Ganga- Health, Integrity and Management, 13-15 November 2006, Patana.

National - 20

1. Indo-US Workshop on Conservation and Development of Natural Fishery Resources of Western Himalayas, Chandigarh. 1998.
2. Aquatic Biodiversity and Emerging Trends in Freshwater Biology. Organized by Department of Zoology, H.N.B. Garhwal University Srinagar Garhwal. From 22-24 October 1999.

3. Ecology and Biodiversity of Aquatic Environment. Organized by Department of Zoology Allahabad University Allahabad, From 15-17 February 2003.
4. Current Perspective in Environmental Health Concerns Organized by Department of Botany and Zoology DAV (P.G) College, Dehradun (Uttarakhand) from 7.9.2005.
5. State of the art on Conservation of Biodiversity in India with particular reference to Himalaya Organized by center of Research for Development and P.G. Department of Environmental Science University of Kashmir March 22-24 2004.
6. 11th all Indian Congress of Zoology and National Seminar on "Population Explosion in Relation to Environment and National Development the Challenges and Management in New Millennium, From 17-19 November 2002 Organized by P.G. Department of Zoology B.N. Mandal University Lal Nagar Madhepura(Bihar).
7. Status of India,s Faunistic Diversity and Environments and 12th all India Congress of Zoology Organized by Department of Zoology and Environmental Science, Gurukula Kangari Vishwavidyalaya, Hardwar. December 29 to 31 2001.
8. Ist Indian Fisheries Science Congress Chandigarh Organized by Department of Zoology Punjab University Chandigarh 21 to 23 September 2000.
9. The 72 Annual Session of the National Academy of Science, India at North- Eastern Hill University (NEHU) Shillong Meghalaya From October 25-27 2002.
10. 73rd Annual Session of the National Academy of Science, India at Ahamadabad.
11. Environmental Audit of Hydroelectric Projects for Sustainable Development Organized by Department of Zoology Government Degree College Vikas Nagar Dak-Pathar from 10-11 April 2006.

Brain storming Sessions

1. The production status and potential of fisheries in U.P.- constraints and Opportunities, organized by U.P. Council of Agricultural Research, Lucknow 22 January, 2003.
2. Fisheries Development in U.P. Planning Commission U.P.2000
3. Cold water Fisheries Organised by National Research Center on Cold water Fisheries, (ICAR) Bhimtal at Dehradun, 19-20 Nov. 1999.

Membership of Societies

International Society for Tropical Ecology (ordinary member)

International Scientific Publications (A Publication wing of Science and Education Society, New Delhi, life member)

National

- a) Indian Science Congress Association (life member)
- b) National Academy of Sciences Allahabad (life member)
- c) Freshwater Biological Association of India, Bhagalpur (ordinary member)
- d) Indian Society of Ichthyologists, Madras (life member)
- e) Asian Fisheries Society (Indian Branch), Mangalore (life member)
- f) Aquatic Biology and Fisheries, Udaipur (ordinary member)

Fellowship

JRF & SRF Department of Science & Technology (DST) New Delhi

National Conference/ Seminar/Symposia/ Workshops Organized

- 1) National Workshop on Development of Reservoir Fisheries and Conservation of Aquatic Biodiversity with Particular Reference to Tehri Dam Project (Uttarakhand), 01-02 December, 2007 Department of Zoology Government P.G. College New Tehri. **Local Organizing Secretary.**
- 2) Seminar on The Majestic River Ganga- Health, Integrity and Management 11 November, 2008. Department of Zoology, Government P.G. College New Tehri. **Organizing Secretary.**
- 3) National Conference on Conservation of Aquatic Biodiversity, Development of Cold Water Fisheries, Fish Biotechnology & Emerging Trends in Fresh Water Environments, 25-27 November, 2011 Department of Zoology Government P.G. College New Tehri. **Organizing Secretary.**

(A) Broad area since (1999 to date)

Fundamental Issues- Stream and River habitat Benthic communities in Himalayan Environment, Aquatic Biodiversity Conservation, Distribution Patterns of Benthic Macroinvertebrate Community, Fish Population and Taxonomy, Climate and Disaster Management.

Applied Issues- Aquatic Biodiversity, Benthic Macroinvertebrate, Water quality monitoring using biotic communities and conservation of fish ecology.

Resent - Aquatic Biodiversity, Benthic Community, Fresh water Fishes, Systematic Population Dynamics, Ecology of Man –Made Reservoir.

Publications

Research papers- 26 (International/ National)

- 1) J.P.Bhatt, **V.P.Semwal** & M.K.Purohit (2003) Prospective Fisheries Development and Management in Uttarakhand State, in Central Himalaya Environment and Development Ed by M.S.S.Rawat Vol I, 122-129.

- 2) Prakash Nautiyal & **V.P.Semwal** (2006) Benthic Macroinvertebrate Community in the Mountain Stream: Longitudinal Patterns of Distribution in West Himalaya (Gangetic Drainage-Mandakini Basin), Journal of Mountain Research, Vol. 1 pp 39-49.
- 3) Prakash Nautiyal Asheesh Sivam Jyoti Varma & **V.P.Semwal** (2007) Bhagirathi River- An Endangered Ecosystem pp164-166.
- 4) Prakash Nautiyal & **V.P.Semwal** (2008) Longitudinal Distribution in the mountain stream (Mandakini basin, West Himalaya- India) Benthic macroinvertebrate community.
- 5) Prakash Nautiyal & **V.P.Semwal** (2009) Benthic Macroinvertebrate Community in the Mountain Stream: Longitudinal Patterns of Distribution in West Himalaya (Gangetic Drainage-Mandakini Basin), Journal of Hill Research, Vol. 1 pp 39-49.
- 6) Prakash Nautiyal, Rachana Nautiyal, **Vijay Prakash Semwal**, Asheesh Shivam Mishra, Jyoti Varma, Devi Prasad Uniyal, Manisha Uniyal, and Krishna Raj Singh (2013) Ecosystem health indicators in the Ganga Basin (Uttarakhand, India): Biodiversity, Spatial patterns in structure and Distribution of Benthic diatoms, macro-invertebrate and ichthyofauna. AQUATIC ECOSYSTEM pp 362-373.
- 7) **Vijay Prakash Semwal** & Asheesh Shivam Mishra (2019) The Distributional Pattern of Benthic Macroinvertebrates in a Spring- fed Foothill Tributary of the Ganga River, Western Himalaya, India, Journal of Threatened Taxa. ISSN0974-7907 (online).

Books:—

- 1) Uttarakhand Disaster: Contemporary Issues of Climate Change and Development with a Holistic Approach by Dr. U. S. Rawat and **Dr. V. P. Semwal**.
- 2) Conservation of Aquatic Biodiversity and Emerging Trends in Freshwater Environments by **Dr. V. P. Semwal**.

(Dr. Vijay Prakash Semwal)